



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41117

Entry Year 2022

Acreage: 957

County Schoolcraft

Management Area: Bullock Ranch

Revision Date: 2020-05-08

Stand Examiner: Mario Molin

Legal Description:

T46N R14W SEC. 23,24

Identified Planning Goals:

The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity Stewardship, Wildlife and Timber Management are some of the key management components within this compartment.

Soil and topography:

This compartment is made up from many different soil complexes/types that weave all around the area. These types are, Spot-Finch, Deford-Meehan-Seney, Deford-Rubicon-AuGres, Deford Muck, Histsuls and Aquants, AuGres-Deford and Rubicon sand. The compartment is mainly low and level with small pine island/ridges.

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

The compartment is one continuous state owned parcel with most of the area around it being state land as well. The northeast corner of the compartment is bordered by private lands.

Unique Natural Features:

There is potential for nesting Northern goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of red pine.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

This compartment falls into the Bullock Ranch Flooding SCA.

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

Compartment 117 lies within north-eastern Schoolcraft county in the Seney-Sand Lake Plain ecological sub-subsection and is a part of the Bullock Ranch Management Area with beaver, gray jay, sharp-tailed grouse, and upland sandpiper as featured species. The growing season within this area ranges from 100 to 130 days with extreme minimum winter temperatures of approximately -40 degrees F. Average annual snowfall is approximately 120 inches.

Pre-settlement forest conditions were dominated by tamarack with a mixture of black spruce. Elevated areas contained pine (most likely red pine). There were also extensive areas of marsh and wet meadow. The primary natural disturbance within this area was most likely fire. As with most of this area, it appears that logging and slash fires impacted the vegetation and soils, but not at as high in magnitude as places like the Kingston Plains. Current vegetation is substantially different from that of the 1840s. Today, the forest cover is dominated by jack pine and red pine. One tamarack stand remains in the northwest corner of the compartment.

Wildlife habitat management objectives are to maintain travel corridors and structural diversity within forest types. Other wildlife priorities include the maintenance of large herbaceous openings, providing connectivity to other open lands across the EUP landscape and retaining soft and hard mast producing species in harvested stands. Other wildlife species of interest include black-backed woodpecker, brown creeper, spruce grouse, meadow jumping mouse, least chipmunk, long-tailed weasel, and snowshoe hare.

Mineral Resource and Development Concerns and/or Restrictions

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

used for stone/dolomite. The nearest gravel pit is 12 miles to the south. There appears to be limited gravel potential on State lands.

Vehicle Access:

Access is from the Fox River road across state land on 2-track roads and along the snowmobile trail.

Survey Needs:

None known.

Recreational Facilities and Opportunities:

A Snowmobile/orv trail runs through the compartment and also the Fox River pathway hiking trail runs through as well.

Fire Protection:

Fire response can be immediate here with the Seney office being only 2 miles away. Due to the low wet ground here the may be some equipment limitations.

Additional Compartment Information:

The following reports from the Inventory are attached:

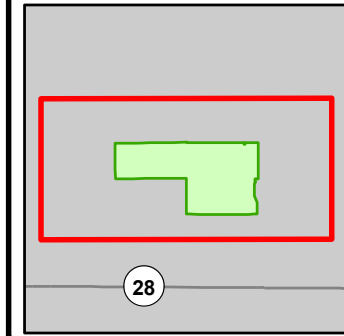
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

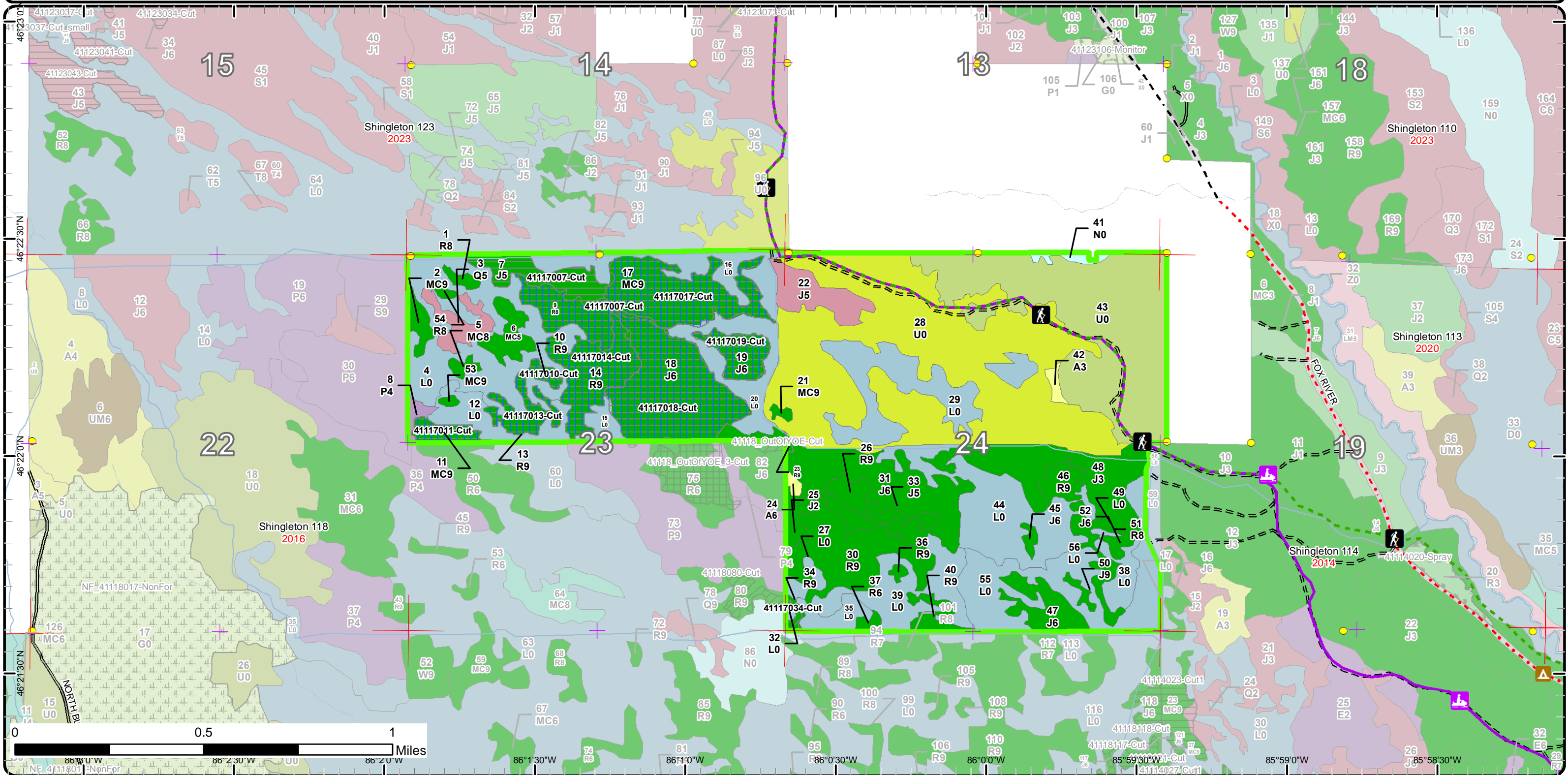
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 117
 T46N, 14W, Sec. 23, 24
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 YOE: 2022
 Acres: 957 GIS Calculated
 Examiner: Mario Molin
 Map Revised: 8/25/2020
 Map Phase: Web Post

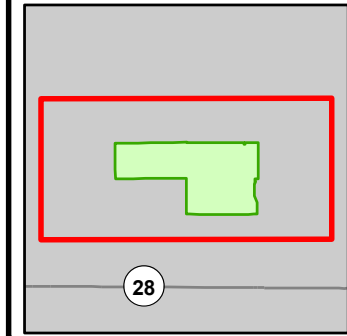


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Hiking Trails
- Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Snowmobile Trails
- Campground
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 413 - Aspen
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

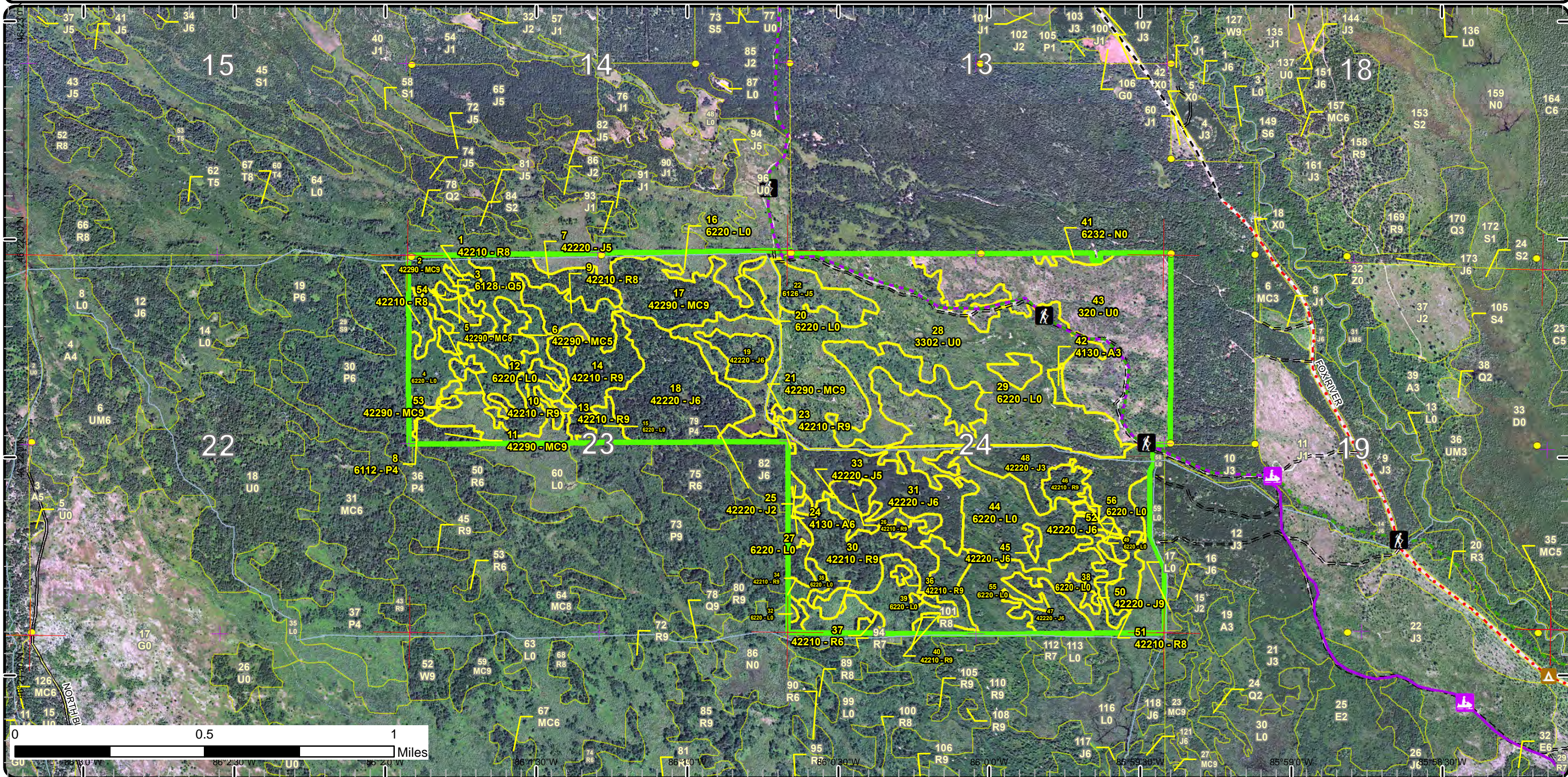


Stand Boundary Map

Compartment: 117
 T46N, 14W, Sec. 23, 24
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 YOE: 2022
 Acres: 957 GIS Calculated
 Examiner: Mario Molin
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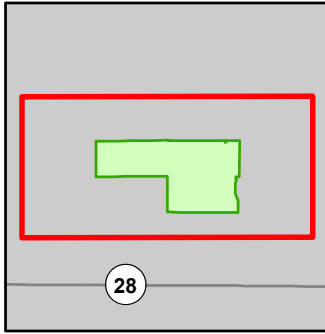


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Hiking Trails
- Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Snowmobile Trails
- Campground
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- Perennial River
- Compartment Boundary
- Stand Boundaries
- 413 - Aspen
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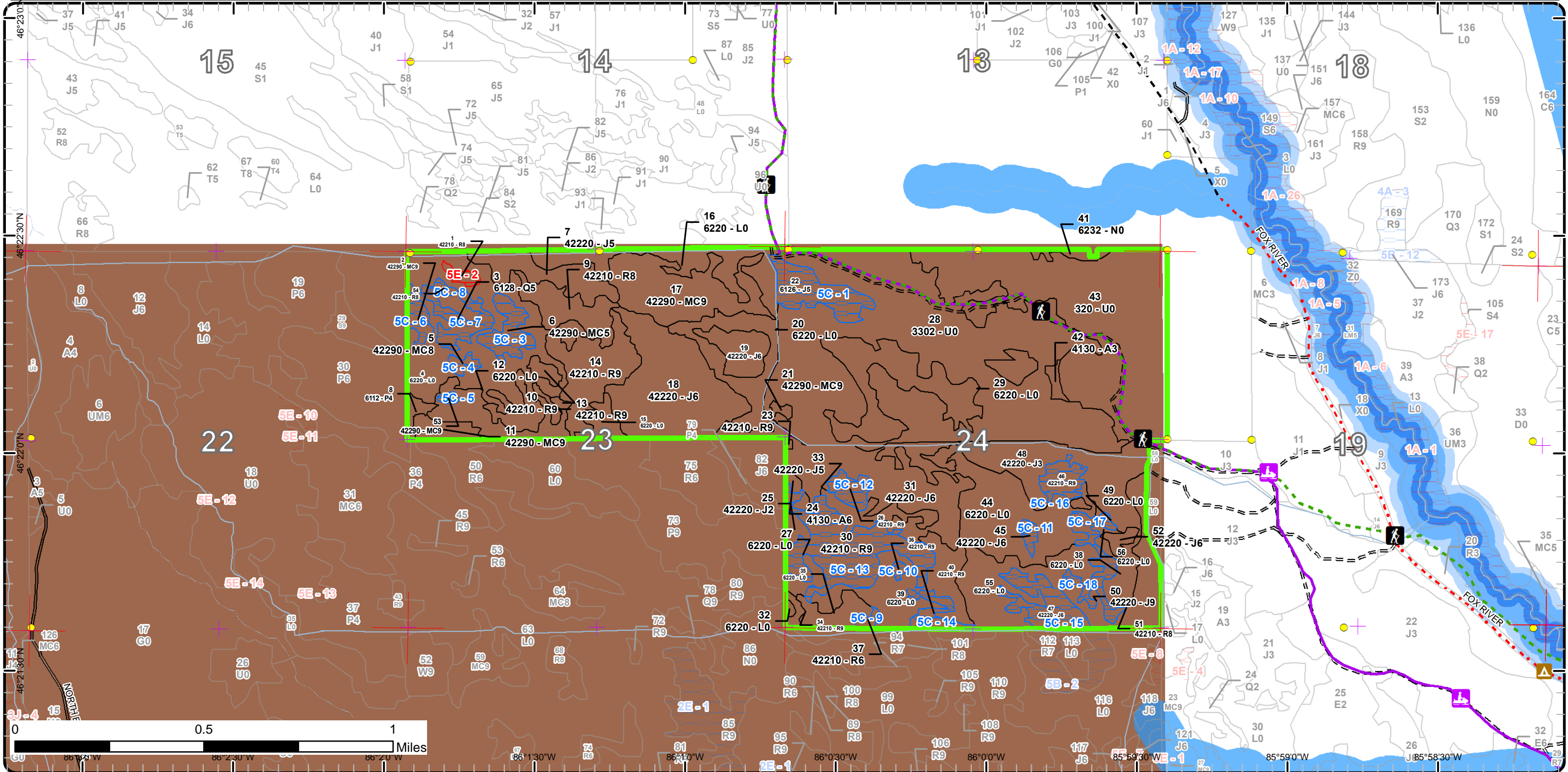


Special Conservation Areas

Compartment: 117
 T46N, 14W, Sec. 23, 24
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Bullock Ranch
 YOE: 2022
 Acres: 957 GIS Calculated
 Examiner: Mario Molin
 Map Revised: 8/25/2020
 Map Phase: Web Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Hiking Trails
- Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Snowmobile Trails
- Campground
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Wildlife Management Areas



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+	Unnever-Aged	Total
Aspen	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	0	0	0	94	0	0	0	0	78	24	0	0	0	0	0	0	0	196
Low-Density Trees	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	176
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	289	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	289
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Natural Mixed Pines	0	0	0	0	0	0	0	0	2	8	0	45	0	0	0	0	0	0	55
Red Pine	0	0	0	0	0	0	0	0	0	0	14	85	9	0	6	0	0	0	114
Upland Shrub	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Total	578	0	2	0	94	1	0	8	4	86	38	130	9	0	6	0	0	0	954



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 117

Total Compartment Acres: 957

Commercial Harvest - 162
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	14	0	0	59	0	0	0	0	0	73
Natural Mixed Pines	0	0	0	40	0	0	0	0	0	40
Red Pine	0	0	0	49	0	1	0	0	0	50
Total	14	0	0	147	0	1	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	0	0	0	0	162
Next Step	0	0	0	0	156	0	69	0	0	224
Total	162	0	0	0	156	0	69	0	0	387



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:

7	41117007-Cut	14.3	42220 - Natural Jack Pine	Poletimber Medium	88	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clear cut and RX burn. Add stand to adjacent sale as an extra unit, and carry over the follow up treatments.

Specs: No retention because of Rx burn.

Next Step Burn, Slash; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Jack pine and other species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/16/2020

9	41117009-Cut	14.3	42210 - Natural Red Pine	Sawtimber Medium	95	81-110	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Even-Aged	No
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Prescription Leave 20-30BA of red pine. More important than BA is spacing, focus on making sure the seed trees are across the stand.

Specs: Add stand to adjacent sale as an extra unit, and carry over the follow up treatments.

Next Step Burn, Slash; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red pine and other species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/16/2020

10	41117010-Cut	2.4	42210 - Natural Red Pine	Sawtimber Well	100	111- 140	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Even-Aged	No
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Prescription Leave 20-30BA of red pine. More important than BA is spacing, focus on making sure the seed trees are across the stand.

Specs: Add stand to adjacent sale as an extra unit, and carry over the follow up treatments.

Next Step Monitoring, Natural Regen (Re-Inventory); Burn, Slash

Treatments:

Acceptable Red pine and other species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/16/2020

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
11 41117011-Cut	5.7	42290 - Natural Mixed Pine	Sawtimber Well	106	111-140	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Leave 20-30BA of red pine. More important than BA is spacing, focus on making sure the seed trees are across the stand.</p> <p><u>Specs:</u> Add to stand to the south if prescribed.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine and other species.</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 /2025</p>										
13 41117013-Cut	8.7	42210 - Natural Red Pine	Sawtimber Well	116	111-140	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Leave 20-30BA of red pine. More important than BA is spacing, focus on making sure the seed trees are across the stand.</p> <p><u>Specs:</u> Add stand to adjacent sale as an extra unit, and carry over the follow up treatments.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Burn, Slash</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine and other species</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> 10/16/2020</p>										
14 41117014-Cut	23.2	42210 - Natural Red Pine	Sawtimber Well	108	111-140	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Leave 20-30BA of red pine. More important than BA is spacing, focus on making sure the seed trees are across the stand.</p> <p><u>Specs:</u> Add stand to adjacent sale as an extra unit, and carry over the follow up treatments.</p> <p><u>Next Step</u> Burn, Slash; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine and other species.</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> 10/16/2020</p>										

Approved Treatments:

17 41117017-Cut	34.1	42290 - Natural Mixed Pine	Sawtimber Well	106	81-110	Harvest	Seed Tree with Retention	42220 - Natural Jack Pine	Two-Aged	No
<p><u>Prescription</u> Clear cut all, this is in order to help with aerial application of herbicide if necessary for regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Understory</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> --Robert Burnham : 11/30/2012 comments:</p> <p><u>Comment:</u> Use fire to regenerate, scarify, trench and plant, herbicide. Old next step comments: --Robert Burnham : 11/30/2012 comments: Chapter 7 changes: As of 3-12-12 the prescription is being changed to a Seed tree harvest with reserves, leaving 10 BA of larger/older red and white pine. Stand is on Proposal, Son of a Ditch Pine, Unit 1. Residual BA = red pine 6' FTP C41-1554 is submitted for Prescribed burning stand.</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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Preferred regeneration is jack pine but any mix of pine is acceptable.
Check regeneration as recommended by work instructions.

Site Condition

Proposed Start Date: 10/1 /2011

18	41117018-Cut	48.6	42220 - Natural Jack Pine	Poletimber Well	85	111-140	Harvest	Seed Tree with Retention	42220 - Natural Jack Pine	Two-Aged	No
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Prescription Clear cut all, this is in order to help with aerial application of herbicide if necessary for regeneration.

Specs:

Next Step Burn, Understory

Treatments:

Acceptable

Regen:

Other Cut with stand to the south.

Comment: Use fire to regenerate, scarify, trench and plant, herbicide. Old next step comments: --Robert Burnham : 11/30/2012 comments: Chapter 7 changes: As of 3-12-12 the prescription is being changed to a Seed tree harvest with reserves, leaving 10 BA of larger/older red and white pine. Stand is on Proposal, Son of a Ditch Pine, Unit 3. Residual BA = red pine 8' and white pine 1', FTP C41-1554 is submitted for Prescribed burning stand.

Preferred regeneration is jack pine but any mix of pine is acceptable. Check regeneration as recommended by work instructions.

Site Condition

Proposed Start Date: 10/1 /2011

19	41117019-Cut	9.9	42220 - Natural Jack Pine	Poletimber Well	92	81-110	Harvest	Seed Tree with Retention	42220 - Natural Jack Pine	Two-Aged	No
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Prescription Clear cut all, this is in order to help with aerial application of herbicide if necessary for regeneration.

Specs:

Next Step Burn, Understory

Treatments:

Acceptable

Regen:

Other Use fire to regenerate, scarify, trench and plant, herbicide. Old next step comments: --Robert Burnham : 11/30/2012 comments: Chapter 7 changes: As of 3-12-12 the prescription is being changed to a Seed tree harvest with reserves, leaving 10 BA of larger/older red and white pine. Stand is on Proposal, Son of a Ditch Pine, Unit 2. Residual BA = red pine 8', FTP C41-1554 is submitted for Prescribed burning stand.

Preferred regeneration is jack pine but any mix of pine.
Check regeneration as recommended by the work instructions. Regenerate to jack pine using- prescribed burning, scarifying, trench and plant/seed and/or herbicide.

Site Condition

Proposed Start Date: 10/1 /2011

23	41117023-Cut	0.2	42210 - Natural Red Pine	Sawtimber Well	105	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
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Prescription Cut all Jack Pine and Aspen, mark Red Pine to 90BA

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Cut with stand in neighboring compartment 118.

Comment:

Site Condition

Proposed Start Date: 10/1 /2011



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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
34 41117034-Cut	1.0	42210 - Natural Red Pine	Sawtimber Well	103	81-110	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all jack pine and mark red pine to 90BA. <u>Specs:</u> Cut with stand 22 in comp 118. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> red pine with other associated species found on site <u>Regen:</u> <u>Other</u> Cut with stand 22 in comp 118. Old next step comments: --Robert Burnham : 11/30/2012 comments: Stand is on Proposal, Son of a Ditch <u>Comment:</u> Pine, Unit 6. Residual BA = red pine 54' and white pine 12' <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2015</p>										

Total Treatment 162.4
Acreage Proposed:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Mario Molin : Examiner

Compartment: 117
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	5C	5E	
3	3	0	0	Aspen		
197	167	30	0	Jack Pine	30	
176	176	0	0	Low-Density Trees		
2	2	0	0	Lowland Aspen/Balsam Poplar		
8	0	8	0	Lowland Conifers	8	
289	289	0	0	Lowland Shrub		
3	3	0	0	Marsh		
55	40	15	0	Natural Mixed Pines	15	
114	51	61	2	Red Pine	61	2
109	109	0	0	Upland Shrub		
957	840	115	2	Total Forested Acres	115	2
	88%	12%	0%	Relative Percent		

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Only mature stand on this of ditch in compartment.							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands will serve as retention for the adjacent stands being harvested.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands will serve as retention for the adjacent stands being harvested.							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 117

Year of Entry: 2022

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands will serve as retention for the adjacent stands being harvested.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands will serve as retention for the adjacent stands being harvested.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands will serve as retention for the adjacent stands being harvested.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands will serve as retention for the adjacent stands being harvested.							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 117

Mario Molin : Examiner

Year of Entry: 2022

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands will serve as retention for the adjacent stands being harvested.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands will serve as retention for the adjacent stands being harvested.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Islands will serve as retention for the adjacent stands being harvested.							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 117

Year of Entry: 2022

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	42210 - Natural Red Pine	Sawtimber Medium	1.9	106	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		5	Pole	8		Red Maple	
White Pine		25	Log	12		Paper Birch	
Red Pine		70	Log	12	106	Quaking Aspen	
						Density	Avg. Height
							Size
2	42290 - Natural Mixed Pine	Sawtimber Well	4.5	106	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		35	Pole/Log	10		Red Maple	
White Pine		15	XLog	22		Quaking Aspen	
Red Pine		50	Log	14	106		
						Density	Avg. Height
							Size
3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	8.3	60	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		25	Pole	6		Sugar Maple	
White Spruce		5	Pole	6		Red Maple	
Tamarack		45	Pole	6	60	Jack Pine	
Red Pine		10	Pole	10		Alder	
Black Cherry		15	Pole	4			
						Density	Avg. Height
							Size
4	6220 - Alder/willow	Nonstocked	54.7		Unspecified	No	
						Sub-Canopy Species	Density
							Avg. Height
							Size
						Tag Alder	High
						Tamarack	Trace
						Willow spp.	Medium
							Tall Shrub
							Seeding
							Sapling
5	42290 - Natural Mixed Pine	Sawtimber Medium	1.9	72	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		20	Pole	6		Red Maple	
Tamarack		5	Log	12		Bigtooth Aspen	
White Pine		5	Log	12			
Red Pine		40	Log	10	72		
Jack Pine		30	Pole	8			
						Density	Avg. Height
							Size
6	42290 - Natural Mixed Pine	Poletimber Medium	8.3	86	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		20	Pole	6		Red Maple	
White Spruce		15	Pole	5		Bigtooth Aspen	
Red Pine		15	Log	12			
Jack Pine		50	Pole	8	86		
						Density	Avg. Height
							Size



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	42220 - Natural Jack Pine	Poletimber Medium	15.2	88	51-80	N/A	Old fire signs in the stand. Stand 1 is being used as retention
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		2	Sapling/Pole	6		Tamarack	
Red Pine		8	Log	10		Red Pine	
Jack Pine		90	Pole	8	88	Jack Pine	
						Density	Avg. Height
						Low	Variable
						Low	Variable
						Low	Variable
							Size
							Sapling
							Sapling
							Sapling
8	6112 - Lowland Aspen	Poletimber Poor	2.4	75	1-50	N/A	Old aspen lowland, filling in with tag alder
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		95	Pole	8	75	Alder	
Red Pine		5	Log	12			
						Density	Avg. Height
						Full	Variable
							Size
							Tall Shrub
9	42210 - Natural Red Pine	Sawtimber Medium	14.3	95	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Log	14		Quaking Aspen	
Red Pine		90	Log	16	95	Balsam Fir	
Jack Pine		5	Pole/Log	8		White Pine	
						Jack Pine	
						Density	Avg. Height
						Low	Variable
						Low	Variable
						Low	Variable
							Size
							Sapling
							Sapling
							Sapling
							Sapling
10	42210 - Natural Red Pine	Sawtimber Well	2.4	100	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		5	Pole	6		White Pine	
White Pine		5	Pole	7		Red Pine	
Red Pine		80	Log	12	100		
Jack Pine		10	Log	10			
						Density	Avg. Height
						Low	Variable
						Low	Variable
							Size
							Sapling
							Sapling
11	42290 - Natural Mixed Pine	Sawtimber Well	5.7	106	111-140	N/A	Tamarack scattered around. patchwork of jack pine, and red pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		10	Pole	8		Red Maple	
Red Pine		45	Log	14	106		
Jack Pine		45	Pole/Log	10			
						Density	Avg. Height
						Low	Variable
							Size
							Sapling
12	6220 - Alder/willow	Nonstocked	14.5		Unspecified	No	
Sub-Canopy Species		Density	Avg. Height	Size			
Tag Alder		Medium			Tall Shrub		
Willow spp.		Low			Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	42210 - Natural Red Pine	Sawtimber Well	8.7	116	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		5	Pole	6		Quaking Aspen	
White Pine		5	XLog	18		White Pine	
Red Pine		65	Log	14	116	Jack Pine	
Jack Pine		25	Log/Pole	10			
14	42210 - Natural Red Pine	Sawtimber Well	23.3	108	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		85	Log	14	108	White Pine	
Jack Pine		15	Pole/Log	9			
15	6220 - Alder/willow	Nonstocked	5.4		Unspecified	No	
Sub-Canopy Species		Density	Avg. Height	Size			
Willow spp.		Low		Tall Shrub			
Tag Alder		High		Tall Shrub			
16	6220 - Alder/willow	Nonstocked	23.7		Unspecified	No	
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine		Trace		Pole			
Tag Alder		Medium		Tall Shrub			
Red Pine		Trace		Pole			
Willow spp.		Low		Tall Shrub			
White Pine		Trace		Pole			
17	42290 - Natural Mixed Pine	Sawtimber Well	33.0	106	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		3	Pole/Log	8		Red Maple	
Tamarack		2	Pole	6		White Spruce	
White Pine		10	Log	16			
Red Pine		45	Log	16	106		
Jack Pine		40	Pole/Log	10			
18	42220 - Natural Jack Pine	Poletimber Well	48.9	85	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Pole	6		Red Maple	
Red Pine		15	Log	12		White Pine	
Jack Pine		80	Pole/Log	8	85	Red Pine	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
19	42220 - Natural Jack Pine	Poletimber Well	10.2	92	81-110	N/A																																									
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21	42290 - Natural Mixed Pine	Sawtimber Well	1.0	106	51-80	N/A																																									
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22	6126 - Lowland Jack Pine	Poletimber Medium	14.2	95	1-50	N/A																																									
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24	4130 - Aspen	Poletimber Well	1.2	40	1-50	N/A																																									
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26	42210 - Natural Red Pine	Sawtimber Well	5.0	102	111-140	N/A																																					
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28	3302 - Low Density Conifer Trees	Nonstocked	176.5		Unspecified	4212 - Planted Jack Pine	Regenerating jack pine stand																																				
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30	42210 - Natural Red Pine	Sawtimber Well	32.9	103	111-140	N/A																																					
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31	42220 - Natural Jack Pine	Poletimber Well	44.3	32	51-80	N/A																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
33	42220 - Natural Jack Pine	Poletimber Medium	8.4	33	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		3	Pole/Sapling	5					
Jack Pine		97	Pole/Sapling	5	33				
34	42210 - Natural Red Pine	Sawtimber Well	1.7	103	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		90	Log	14	103	White Pine	Low	Variable	Sapling
Jack Pine		10	Pole	8					
35	6220 - Alder/willow	Nonstocked	7.3		Unspecified	No			
Sub-Canopy Species		Density	Avg. Height	Size					
Tag Alder		High		Tall Shrub					
Willow spp.		Low		Tall Shrub					
36	42210 - Natural Red Pine	Sawtimber Well	1.0	106	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		5	Log	12		Tamarack	Low	Variable	Sapling
Red Pine		90	Log	14	106	White Pine	Low	Variable	Sapling
Jack Pine		5	Pole	6		Jack Pine	Low	Variable	Sapling
37	42210 - Natural Red Pine	Poletimber Well	1.6	103	141-170	N/A	bleeds over into next compartment		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		2	Pole	8		White Pine	Low	Variable	Sapling
Red Pine		98	Pole/Log	10	103	Red Pine	Low	Variable	Sapling
38	6220 - Alder/willow	Nonstocked	7.4		Unspecified	No			
Sub-Canopy Species		Density	Avg. Height	Size					
Tag Alder		High		Tall Shrub					
Willow spp.		Medium							
39	6220 - Alder/willow	Nonstocked	27.3		Unspecified	No			
Sub-Canopy Species		Density	Avg. Height	Size					
Willow spp.		Medium		Tall Shrub					
Tag Alder		High		Tall Shrub					
40	42210 - Natural Red Pine	Sawtimber Well	5.5	106	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		5	Log	14		White Pine	Low	Variable	Sapling
Red Pine		90	Log	16	106	Red Pine	Low	Variable	Sapling
Jack Pine		5	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	6232 - Wet Prairie	Nonstocked	2.5		Unspecified	No	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Tag Alder		Medium		Tall Shrub	
		Willow spp.		Low		Tall Shrub	
42	4130 - Aspen	Sapling Well	1.9	18	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		100	Sapling	2	18		
43	320 - Upland Shrub	Nonstocked	109.1	0	Unspecified	4222 - Natural Jack Pine	041-011-12-01 " Blue Blazes" TCR 1/25/16 FTP 1531 Scarified by Holli: 7/15/16 Passed regen check fall 2019. Stand has lots of aspen and cherry along with Jack pine.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Jack Pine		Medium	< 5 feet	Seeding	
		Tamarack		Low	< 5 feet	Seeding	
		White Pine		Low	< 5 feet	Seeding	
44	6220 - Alder/willow	Nonstocked	43.1		Unspecified	No	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Tag Alder		High		Tall Shrub	
		Willow spp.		Medium			
45	42220 - Natural Jack Pine	Poletimber Well	1.6	35	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Pole	8	35		
46	42210 - Natural Red Pine	Sawtimber Well	6.1	130	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		15	Log	18			
Red Pine		85	Log	18	130		
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Maple		Low	Variable	Sapling	
		White Pine		Low	Variable	Sapling	
		Red Pine		Low	Variable	Sapling	
		Jack Pine		Low	Variable	Sapling	
47	42220 - Natural Jack Pine	Poletimber Well	12.4	80	81-110	N/A	Trace super story Redpine.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		5	Pole	6			
White Spruce		5	Pole	5			
Jack Pine		90	Pole/Log	10	80		
		Sub-Canopy Species		Density	Avg. Height	Size	
		Jack Pine		Low	Variable	Sapling	
48	42220 - Natural Jack Pine	Sapling Well	34.6	32	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		5	Log	12			
Jack Pine		95	Sapling	4	32		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																			
49	6220 - Alder/willow	Nonstocked	0.0		Unspecified	No																				
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50	42220 - Natural Jack Pine	Sawtimber Well	1.6	82	81-110	N/A																				
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51	42210 - Natural Red Pine	Sawtimber Medium	8.1	106	51-80	N/A																				
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52	42220 - Natural Jack Pine	Poletimber Well	2.4	32	51-80	N/A																				
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53	42290 - Natural Mixed Pine	Sawtimber Well	0.8	106	111-140	N/A	Tamarack scattered around. patchwork of jack pine, and red pine.																			
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Paper Birch	Low	Variable	Sapling																							
Quaking Aspen	Low	Variable	Sapling																							
55	6220 - Alder/willow	Nonstocked	46.2		Unspecified	No																				
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