



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41119

Entry Year 2018

Acreage: 3,261

County Schoolcraft

Management Area: Bullock Ranch

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**Revision Date:** 2016-08-31

**Stand Examiner:** Scott Kentner

**Legal Description:**

T46N, R14W, Secs. 32 – 35; T45N, R14W, Secs. 2-5

**Identified Planning Goals:**

To maintain the large opening complexes for a suite of wildlife species dependant upon this type of habitat; and to provide sustainable forest eco-system management.

**Soil and topography:**

The majority of the compartment is low, marshy ground with ridges of pine. The soil types for the ridges are mainly Deford-Rubicon mixes; while the soil types in the low ground are mainly drained Marky-Deford Mucks or Carbondale, Lupton and Tawas soils.

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

The Seney National Wildlife Refuge borders the south side of the compartment; the remainder of the compartment is bordered by state owned land.

**Unique Natural Features:**

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

**Archeological, Historical, and Cultural Features:**

Numerous man-made ditches exist where swamp drainage was attempted for farming.

**Special Management Designations or Considerations:**

Special Conservation Area (SCA) for the Bullock Ranch wildlife opening complex.

**Watershed and Fisheries Considerations:**

This compartment contains the Holland Ditch, several smaller ditches, and marsh land. It is important to prevent inputs of sand and fine sediment into these ditches as these materials will eventually settle out downstream and lower the quality of fish habitat in the receiving waters. Standard BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

**Wildlife Habitat Considerations:**

This compartment lies on the south side of M-28 in the area that is locally known as Bullock Ranch. The Holland ditch cuts through the eastern portion of the compartment. The General Land Office surveyors (circa 1850) described this area as open marsh with low sand ridges. Tree species most often recorded on the ridges include tamarack, spruce, red pine and white pine.

Ditching and draining followed by subsequent attempts at ranching, as well as numerous fires have substantially altered the ecology of this compartment. Currently the compartment is dominated by large grassy openings, red pine ridges, and open marsh.

This location has historically been managed for prairie grouse and other open-land associated species. The current wildlife habitat management goals for this compartment are centered around continuing to maintain the large opening complex and maintaining the integrity of the marsh that has been unaffected by the past draining and ranching activities. This compartment lies within the Bullock Ranch Management Area and the featured species within this MA are American beaver, gray jay, and sharp-tailed grouse.

**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 Utica and Collingwood Shales and Trenton Group subcrop below the glacial drift. The Trenton is quarried for stone/dolomite elsewhere in the UP. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

The majority of the compartment is low, wet ground with islands of pine trees, and is without roads.

**Survey Needs:**

None needed at this time

**Recreational Facilities and Opportunities:**

There are no DNR recreational facilities within the compartment; but the area is used for hunting.

**Fire Protection:**

Lack of roads in most of the compartment makes access to fires difficult

**Additional Compartment Information:**

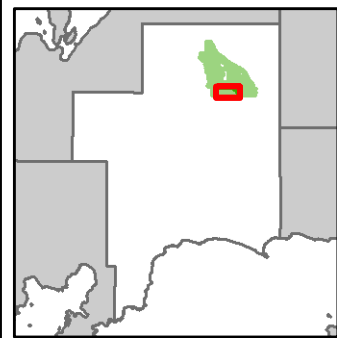
The following reports from the Inventory are attached:

- 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:

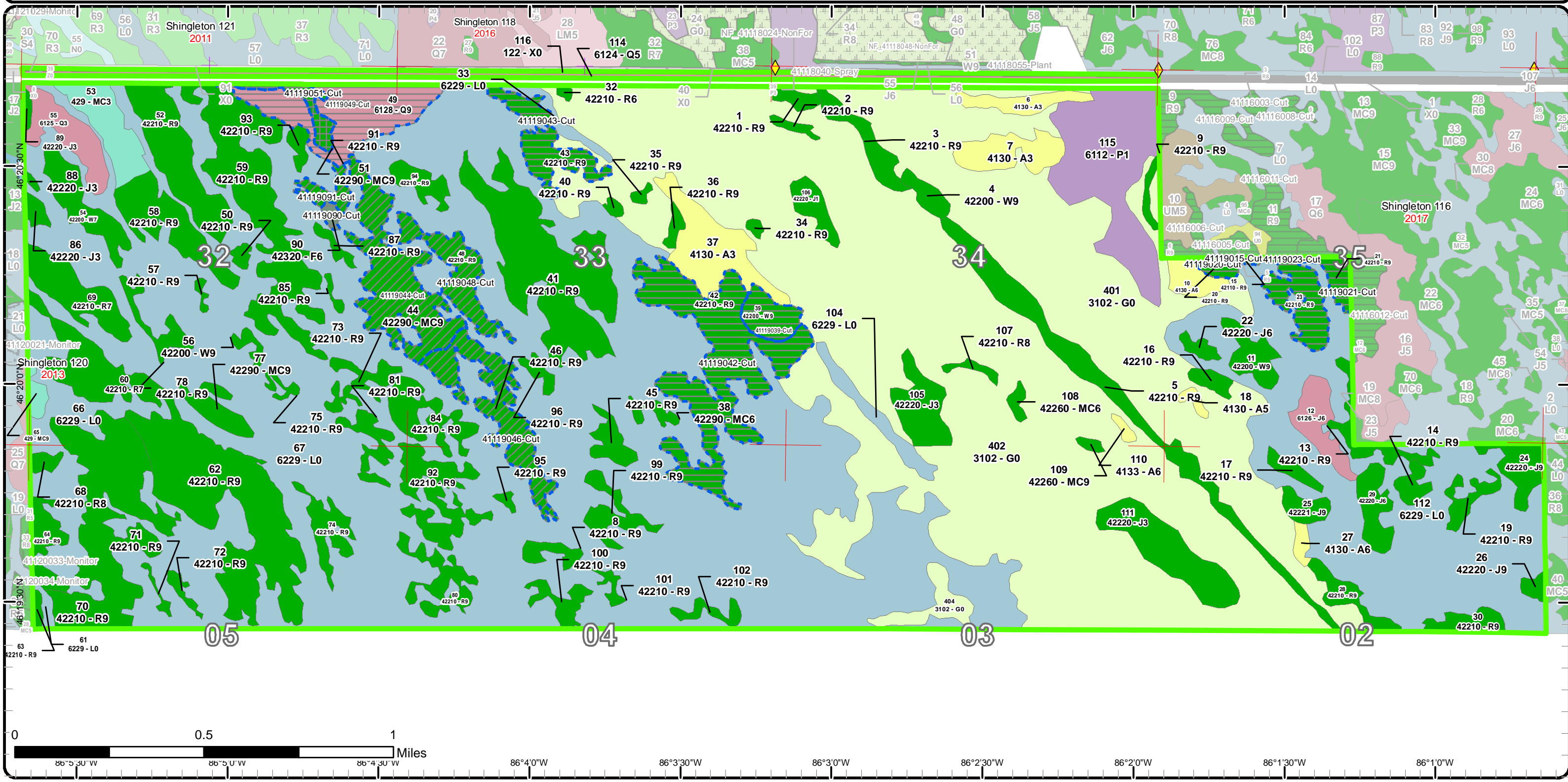
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

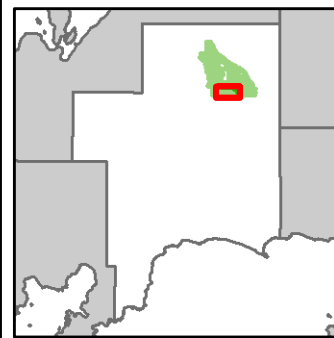


Compartment: 119  
 T45N, R14W, Sec: 02-05  
 T46N, R14W, Sec: 32-35  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Bullock Ranch  
 YOE: 2018  
 Acres: 3,261 GIS Calculated  
 Examiner: Scott Kentner  
 Map Revised: 12/6/2016  
 Map Phase: Post Review

- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Seed Tree (w/Reserves)
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

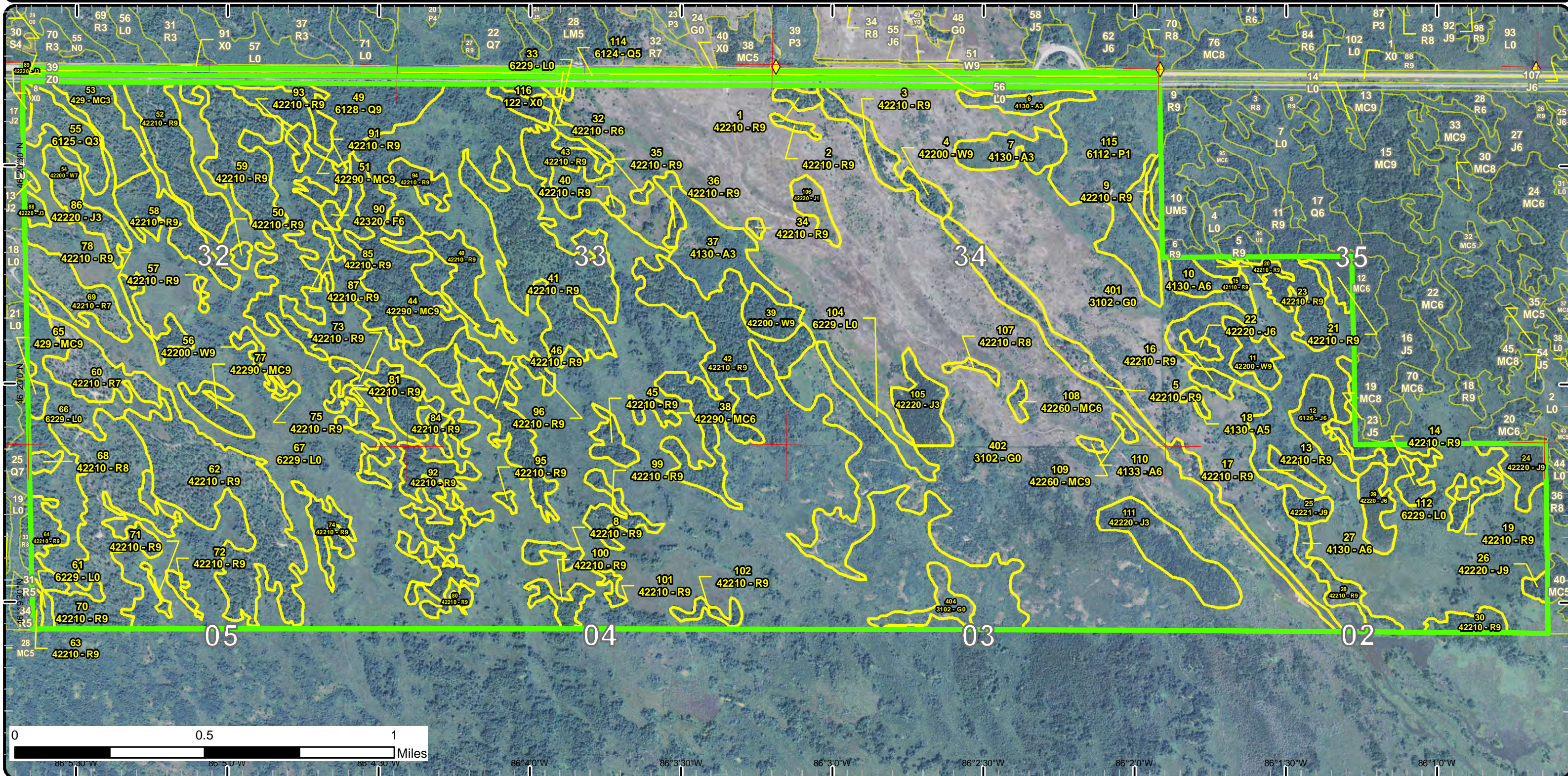


# Stand Boundary Map



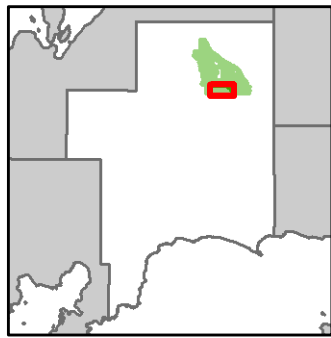
Compartment: 119  
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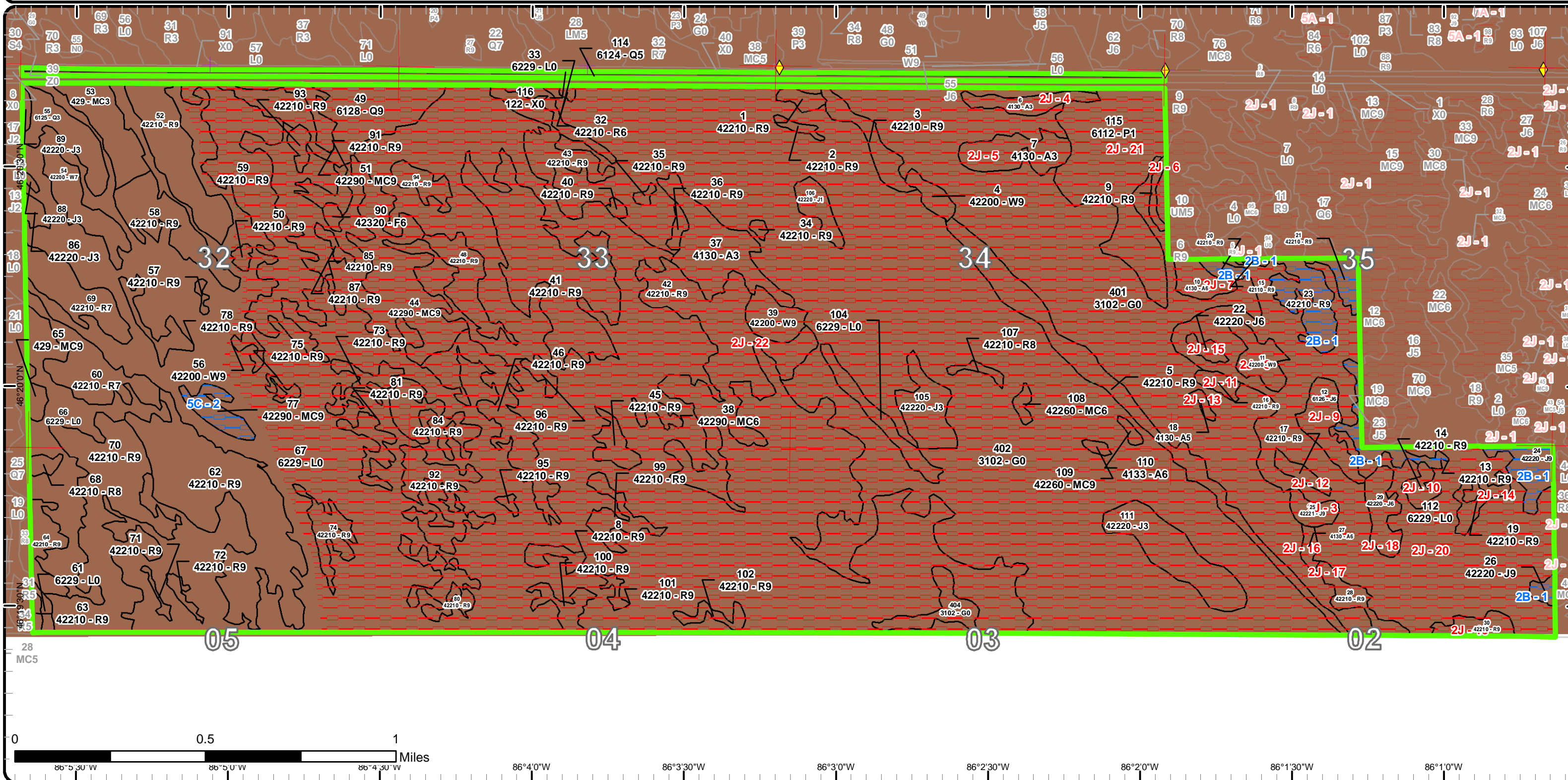


# Special Conservation Areas & Site Conditions Map

Compartment: 119  
 T45N, R14W, Sec: 02-05  
 T46N, R14W, Sec: 32-35  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Bullock Ranch  
 YOE: 2018  
 Acres: 3,261 GIS Calculated  
 Examiner: Scott Kentner  
 Map Revised: 12/6/2016  
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2B: Unknown if access through adjacent landowner(s) is possible
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- 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+	Uneven-Aged	Total
Aspen	0	0	50	0	1	7	5	0	0	0	0	0	0	0	0	0	0	0	62
Herbaceous Openland	869	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	869
Jack Pine	0	0	5	47	22	3	0	18	0	0	0	0	0	0	0	0	0	0	95
Lowland Aspen/Balsam Poplar	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Lowland Conifers	0	0	15	0	0	0	61	0	0	0	0	0	0	0	0	0	0	0	76
Lowland Shrub	1244	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1244
Natural Mixed Pines	0	0	0	0	2	0	1	50	8	0	0	0	0	0	0	0	0	0	61
Red Pine	0	0	0	0	0	0	50	609	64	0	0	0	0	0	0	0	0	0	723
Upland Conifers	0	0	17	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	20
Upland Spruce/Fir	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	40
<b>Total</b>	<b>2122</b>	<b>0</b>	<b>147</b>	<b>47</b>	<b>25</b>	<b>10</b>	<b>117</b>	<b>723</b>	<b>72</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>0</b>	<b>3261</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2018

Acres of Harvest

Compartment 119  
Total Compartment Acres: 3,261

Commercial Harvest -  
Harvests with Site Condition - 242  
Next Step Harvest - 0  
Habitat Cut - 1

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Conifers	36	0	0	0	0	0	0	0	0	36
Natural Mixed Pines	0	0	0	6	0	41	0	0	0	47
Red Pine	103	0	0	0	0	46	0	0	0	149
Upland Spruce/Fir	2	0	0	0	0	0	0	0	0	2
White Pine	10	0	0	0	0	0	0	0	0	10
<b>Total</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>87</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>242</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	242	0	0	0	0	0	0	0	0	242
Next Step	0	36	30	0	0	24	168	0	0	258
<b>Total</b>	<b>242</b>	<b>36</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>168</b>	<b>0</b>	<b>0</b>	<b>501</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	Approval Status
15	41119015-Cut	0.9	42110 - Planted Red Pine	Sawtimber Well	66	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: Yes**      **Site Condition: Unknown Access**

Prescription Harvest all merchantable timber. Red line will be used to keep equipment out of open wetlands to protect Vasey's Rush.  
Specs:

Next Step SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)  
Treatments:

Acceptable Red pine on ridges and any current species on low ground.  
Regen:

Other No retention due to small size. Encourage chipping the ridges.  
Comment:

Proposed Start Date: 10/01/2016

20	41119020-Cut	2.7	42210 - Natural Red Pine	Sawtimber Well	66	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Harvest all merchantable trees on ridges that will be planted. On the edges larger white pine should be favored. Red line will be used to keep equipment out of open wetlands to protect Vasey's Rush.  
Specs:

Next Step SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)  
Treatments:

Acceptable Red pine on ridges and any current species on low ground.  
Regen:

Other Ridges will be trenched and planted. Low ground will be left to regenerate naturally. Encourage chipping.  
Comment:

Proposed Start Date: 10/01/2016

21	41119021-Cut	5.7	42210 - Natural Red Pine	Sawtimber Well	65	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Harvest all merchantable trees on ridges that will be planted. On the edges larger white pine should be favored. Red line will be used to keep equipment out of open wetlands to protect Vasey's Rush.  
Specs:

Next Step SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)  
Treatments:

Acceptable Red pine on ridges and any current species on low ground.  
Regen:

Other Ridges will be trenched and planted. Low ground will be left to regenerate naturally. Encourage chipping.  
Comment:

Proposed Start Date: 10/01/2016

23	41119023-Cut	14.7	42210 - Natural Red Pine	Sawtimber Well	66	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Harvest all merchantable trees on ridges that will be planted. On the edges larger white pine should be favored. Red line will be used to keep equipment out of open wetlands to protect Vasey's Rush.  
Specs:

Next Step SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)  
Treatments:

Acceptable Red pine on ridges and any current species on low ground.  
Regen:

Other Ridges will be trenched and planted. Low ground will be left to regenerate naturally. Encourage chipping.  
Comment:

Proposed Start Date: 10/01/2016





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
39	41119039-Cut	9.6	42200 - Natural White Pine	Sawtimber Well	66	51-80	Harvest	Clearcut	31021 - Cool Season Grass		Draft Field Boundary

**Habitat Cut: No**      **Site Condition: Blocked by Railroad**

Prescription Clearcut all trees in this stand, leaving no retention. MO will be changed to grass.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable no trees

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

42	41119042-Cut	62.2	42210 - Natural Red Pine	Sawtimber Well	64	81-110	Harvest	Clearcut	31021 - Cool Season Grass		Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Blocked by Railroad**

Prescription Clear cut this stand leaving no retention. MO will change to grass.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable no trees

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

43	41119043-Cut	16.6	42210 - Natural Red Pine	Sawtimber Well	66	81-110	Harvest	Clearcut	31021 - Cool Season Grass		Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Blocked by Railroad**

Prescription Clear cut stand leaving no retention. MO should change to grass.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable no trees

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

44	41119044-Cut	40.9	42290 - Natural Mixed Pine	Sawtimber Well	67	141- 170	Harvest	Crown Thinning	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Blocked by Railroad**

Prescription Cut all species except Hemlock and Oak. Mark Red and White pine to cut, focus marking on spacing for future crop trees.

Specs:

Next Step

Treatments:

Acceptable Red pine. White pine, Jack pine, Black spruce, Aspen, Tamarack

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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
46	41119046-Cut	27.0	42210 - Natural Red Pine	Sawtimber Well	66	171-200	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**      **Site Condition: Blocked by Railroad**

Prescription Cut all species except Hemlock and Oak. Mark Red and White pine to cut, focus marking on spacing for future crop trees.

Specs:

Next Step

Treatments:

Acceptable Red pine, White pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

48	41119048-Cut	14.0	42210 - Natural Red Pine	Sawtimber Well	66	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Blocked by Railroad**

Prescription Cut all species except Hemlock and Oak. Mark Red and White pine to cut, focus marking on spacing for future crop trees.

Specs:

Next Step

Treatments:

Acceptable Red pine, white, Aspen

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

49	41119049-Cut	35.5	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	57	111-140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Blocked by Railroad**

Prescription Clear cut all species within stand, retention should be in pockets.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Any species growing on site

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

51	41119051-Cut	6.1	42290 - Natural Mixed Pine	Sawtimber Well	64	81-110	Harvest	Seed Tree	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Blocked by Railroad**

Prescription Mark with Green Paint 10-20 BA of Red and White pine to leave as seed trees. Remove all other species.

Specs:

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

Treatments: Monitoring, Artificial Regen(1yr)

Acceptable Red pine, Jack pine, White pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
90	41119090-Cut	1.7	42320 - Upland Spruce	Poetimber Well	66	111-140	Harvest	Clearcut	42330 - Upland Fir	Even-Aged	Draft Field Boundary

**Habitat Cut: No**      **Site Condition: Blocked by Railroad**

Prescription Clear cut stand, due to small size retention will be less than 3%.  
Specs:

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

Acceptable Any species growing on site.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

91	41119091-Cut	4.8	42210 - Natural Red Pine	Sawtimber Well	69	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Blocked by Railroad**

Prescription Cut all species except Hemlock and Oak. Mark Red and White pine to cut, focus marking on spacing for future crop trees.  
Specs:

Next Step  
Treatments:

Acceptable Red pine  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

**Total Treatment Acreage Proposed: 242.4**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 119  
Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions			
		With Condition			2B	5C	2J	
62	0	0		62	Aspen			62
869	1	0		868	Herbaceous Openland			868
93	5	12		76	Jack Pine	12		76
60	0	0		60	Lowland Aspen/Balsam Poplar			60
76	40	0		36	Lowland Conifers			36
1244	240	0		1003	Lowland Shrub			1,003
61	0	8		53	Natural Mixed Pines		8	53
723	241	32		449	Red Pine	32		449
20	20	0		0	Upland Conifers			
2	0	0		2	Upland Spruce/Fir			2
9	9	0		0	Urban			
41	15	0		26	White Pine			26
3,260	572	52		2,635	Total Forested Acres	45	8	2,635
	18%	2%		81%	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	2B: Unknown if access through adjacent landowner(s) is possible	45	2E: Road needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Railroad has denied access.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Shingleton Mgt. Unit  
 Scott Kentner : Examiner

Compartment: 119  
 Year of Entry: 2018

3	Unavailable	2J: Blocked by Railroad	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2J: Blocked by Railroad	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2J: Blocked by Railroad	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2J: Blocked by Railroad	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2J: Blocked by Railroad	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2J: Blocked by Railroad	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2J: Blocked by Railroad	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2J: Blocked by Railroad	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

**Report 4 – Site Conditions**

Shingleton Mgt. Unit  
 Scott Kentner : Examiner

Compartment: 119  
 Year of Entry: 2018

11	Unavailable	2J: Blocked by Railroad	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2J: Blocked by Railroad	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2J: Blocked by Railroad	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2J: Blocked by Railroad	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2J: Blocked by Railroad	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2J: Blocked by Railroad	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2J: Blocked by Railroad	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2J: Blocked by Railroad	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 119  
Year of Entry: 2018

19	Unavailable	2J: Blocked by Railroad	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2J: Blocked by Railroad	202	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2J: Blocked by Railroad	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2J: Blocked by Railroad	2,267	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



**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
	Potential Old Growth		<b>SCA Removal</b>	16
<b>Comments</b> between M28 and RR, does not meet current SCA criteria				
	Potential Old Growth		<b>SCA Removal</b>	1375
<b>Comments</b> Already an SCA - Wildlife Management Area				



Mgt. Unit

Compartment:

Year of Entry



## 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42210 - Natural Red Pine	Sawtimber Well	3.1	61	111-140	SCA - State WL Area, Bullock Ranch. Mix of Red & White Pine on a small ridge near M-28.
2	42210 - Natural Red Pine	Sawtimber Well	1.9	61	81-110	SCA - State WL Area, Bullock Ranch. Mix of red & white pine on a small ridge near M-28.
3	42210 - Natural Red Pine	Sawtimber Well	9.7	61	81-110	SCA - State WL Area, Bullock Ranch. Holland Ditch runs through this stand. Scattered red and white pine with a few jack pine and aspen. Near M-28. Beavers have eaten much of the aspen.
4	42200 - Natural White Pine	Sawtimber Well	4.8	64	111-140	SCA - State WL Area, Bullock Ranch. Pine next to Holland Ditch (ditch runs through the stand). Visible from M-28. .
5	42210 - Natural Red Pine	Sawtimber Well	35.3	61	81-110	SCA - State WL Area, Bullock Ranch. Holland Ditch runs through this stand. Scattered red and white pine with a few jack pine and aspen. Visible from M-28.
6	4130 - Aspen	Sapling Well	8.0	19	Immature	SCA - State WL Area, Bullock Ranch. Aspen about 6-20 feet tall. Ground cover is mainly grass with some small shrubs. Near M-28.
7	4130 - Aspen	Sapling Well	14.8	19	Immature	SCA - State WL Area, Bullock Ranch. Aspen 6-20 feet tall. Ground cover is mainly grass with some small shrubs.
8	42210 - Natural Red Pine	Sawtimber Well	4.2	61	111-140	Island of pine.
9	42210 - Natural Red Pine	Sawtimber Well	2.4	68	111-140	SCA - State WL Area, Bullock Ranch. Narrow strip of Red & White Pine next to a large N/S ditch. The ditch has a narrow bridge across it.
10	4130 - Aspen	Poletimber Well	7.0	41	111-140	SCA - State WL Area, Bullock Ranch. Flat ground. Ground cover includes raspberry & other low-med brush species.
11	42200 - Natural White Pine	Sawtimber Well	9.2	64	81-110	SCA - State WL Area, Bullock Ranch. Red Pine on higher ground; jack pine & aspen on lower ground.
12	6126 - Lowland Jack Pine	Poletimber Well	12.4	38	51-80	Flat, wet ground.
13	42210 - Natural Red Pine	Sawtimber Well	8.2	65	111-140	Red Pine on higher ground; jack pine and aspen on lower ground. Extends into s41 C116.
14	42210 - Natural Red Pine	Sawtimber Well	4.3	62	81-110	Low ground. Mix of tree species.
15	42110 - Planted Red Pine	Sawtimber Well	0.9	66	111-140	This stand continues into C116 s.57. [07/07/2008] Stand is now under contract TS# 41-004-08-01. Residual BA: red pine = 63; white pine = 14; total = 77 sq.ft./acre. [01/19/12] TS 41-004-08-01 has been returned/cancelled with a TCR dtd 01/18/12. No cutting took place.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	42210 - Natural Red Pine	Sawtimber Well	3.5	64	141-170	SCA - State WL Area, Bullock Ranch. Red Pine ridge.
17	42210 - Natural Red Pine	Sawtimber Well	3.6	66	81-110	SCA - State WL Area, Bullock Ranch. Red Pine on the ridges, with jack pine, white pine and aspen on the flat ground.
18	4130 - Aspen	Poletimber Medium	1.8	51	81-110	SCA - State WL Area, Bullock Ranch. Flat, low ground with Aspen, raspberry and other med-tall brush.
19	42210 - Natural Red Pine	Sawtimber Well	5.6	62	111-140	Flat, wet ground.
20	42210 - Natural Red Pine	Sawtimber Well	2.7	66	111-140	This stand continues into C116 s.56. Thin the red & white pine; cut all other trees except oak. [07/07/2008] Stand is now under contract TS# 41-004-08-01. Residual BA: red pine = 63; white pine = 14; total = 77 sq.ft./acre. [01/19/12] TS 41-004-08-01 has been returned/cancelled with a TCR dtd 01/18/12. No cutting took place.
21	42210 - Natural Red Pine	Sawtimber Well	5.7	65	81-110	Extends into C116 s55.
22	42220 - Natural Jack Pine	Poletimber Well	2.7	48	111-140	SCA - State WL Area, Bullock Ranch.
23	42210 - Natural Red Pine	Sawtimber Well	14.7	66	111-140	Mainly level ground, with med-tall brush. [07/07/2008] Stand is now under contract TS# 41-004-08-01. Residual BA: red pine = 49; white pine = 22; total = 71 sq.ft./acre. [01/19/12] TS 41-004-08-01 has been returned/cancelled with a TCR dtd 01/18/12. No cutting took place.
24	42220 - Natural Jack Pine	Sawtimber Well	10.1	61	81-110	Extends into C116 s. 39 & 40. Surrounded by marsh - difficult access.
25	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	5.2	64	81-110	SCA - State WL Area, Bullock Ranch. Mixed pine on mainly flat ground, with med/tall brush.
26	42220 - Natural Jack Pine	Sawtimber Well	2.4	69	81-110	This stand continues into C116 s.30. Small, flat rise in a large marsh; difficult access.
27	4130 - Aspen	Poletimber Well	2.5	57	51-80	SCA - State WL Area, Bullock Ranch. Flat ground with aspen and tall brush.
28	42210 - Natural Red Pine	Sawtimber Well	7.8	66	81-110	SCA - State WL Area, Bullock Ranch. Mixed pine on higher ground, and aspen on lower ground.
29	42220 - Natural Jack Pine	Poletimber Well	9.7	38	111-140	Low, wet ground with 1-5" DBH Jack Pine and tall brush.
30	42210 - Natural Red Pine	Sawtimber Well	6.5	66	111-140	SCA - State WL Area, Bullock Ranch. Ridge in a large marsh next to the Seney NWR; very difficult access. Red Pine and blueberry on higher ground; mainly Aspen and med/tall brush on lower ground.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	42210 - Natural Red Pine	Poletimber Well	0.8	54	51-80	SCA - State WL Area, Bullock Ranch. Small area of mixed pine within a large grass opening. Near M-28.
34	42210 - Natural Red Pine	Sawtimber Well	1.1	61	51-80	SCA - State WL Area, Bullock Ranch. Small knoll with Red Pine, within a large grassy opening. Visible from M-28. Thinned in apx. 1997. Ground cover includes: blueberry, reindeer moss and grass.
35	42210 - Natural Red Pine	Sawtimber Well	1.1	61	111-140	SCA - State WL Area, Bullock Ranch. Small knoll with Red Pine, within a large grassy area. Visible from M-28. [06/08/09] Stand is now under contract TS # 41-036-08-01 Bullock Pine. [10-27-11] Sale is now closed TCR dtd 8/29/11.
36	42210 - Natural Red Pine	Sawtimber Well	2.2	58	111-140	SCA - State WL Area, Bullock Ranch. Small ridge of mixed pine:
37	4130 - Aspen	Sapling Well	26.7	16	Immature	SCA - State WL Area, Bullock Ranch. Seasonal drainage through the stand. Ground cover includes: raspberry, red osier dogwood, willow and alder.
38	42290 - Natural Mixed Pine	Poletimber Well	2.8	61	81-110	Small Pine island within a large marsh - difficult access. Lower ground has more white pine and Spruce. Higher ground has blueberry & more red pine.
39	42200 - Natural White Pine	Sawtimber Well	9.6	66	51-80	Mix of red and white pine on flat ground. [06/08/09] Stand is now under contract TS # 41-036-08-01 Bullock Pine. Residual BA: red pine = 53; w.pine = 29; total = 82 sq.ft/acre. [10-27-11] Sale is now closed TCR dtd 8/29/11.
40	42210 - Natural Red Pine	Sawtimber Well	1.2	66	81-110	SCA - State WL Area, Bullock Ranch. Small knoll of Red Pine within a grass stand. [06/08/09] Stand is now under contract TS # 41-036-08-01 Bullock Pine. [10-27-11] Sale is now closed TCR dtd 8/29/11.
41	42210 - Natural Red Pine	Sawtimber Well	61.6	75	81-110	Nice Red Pine on the ridges; ground cover is blueberry and bracken fern. The flatter ground has more White Pine. Much of the red and white pine regeneration is 1-3 " DBH. [06/08/09] Stand is now under contract TS # 41-036-08-01 Bullock Pine. Residual BA: red pine = 51; w.pine = 15; total = 66 sq.ft/acre. [10-27-11] Sale is now closed TCR dtd 8/29/11.
42	42210 - Natural Red Pine	Sawtimber Well	62.2	64	81-110	Thinned apx. 2001. Ridges of red and white pine. Good regeneration in skid roads (both red & white pine).
43	42210 - Natural Red Pine	Sawtimber Well	16.6	66	81-110	Thinned in 2000.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	42290 - Natural Mixed Pine	Sawtimber Well	40.9	67	141-170	Comprised of a series of ridges with Red Pine and blueberry; connected by lower, flatter ground with White Pine, B.Spruce, Jack Pine and Aspen and Tamarack near the edges of the marsh. Some low, wet areas within the stand. Difficult access: marshes & ditches.
45	42210 - Natural Red Pine	Sawtimber Well	6.3	66	111-140	Island of mixed pine in a large marsh. Red Pine and blueberry is on the higher ground, and White Pine & Jack Pine with med -tall brush is on the flatter ground. There is a ditch going E/W through the stand.
46	42210 - Natural Red Pine	Sawtimber Well	27.0	66	171-200	A mix of Red and White Pine, with the Red Pine mainly on the ridges, and the White Pine on the lower ground. Some low, wet areas within the stand.
48	42210 - Natural Red Pine	Sawtimber Well	14.0	66	111-140	Mixed pine stand: White Pine on the flat ground, and Red Pine on the ridges; with Aspen around the edges near the marsh. Some low wet area within the stand. Difficult access - marshes & ditches.
49	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	35.5	57	111-140	
50	42210 - Natural Red Pine	Sawtimber Well	1.7	64	81-110	Mix of red & white pine on small flat ridge in marsh. Thinned in 2001.
51	42290 - Natural Mixed Pine	Sawtimber Well	6.1	64	81-110	Mix of pine (red, white & jack) on higher ground, and aspen on lower ground. Next to the railroad and M-28.
52	42210 - Natural Red Pine	Sawtimber Well	26.8	57	111-140	Thinned in 2001. A mix of red & white pine with med-tall brush on lower ground and blueberry & bracken fern on the higher ground.
53	429 - Mixed Upland Conifers	Sapling Well	17.1	15	Immature	Cut in 2001: residual red & white pine. Regen counts include a mix of species: b. spruce, jack pine, white pine, red pine, cherry, p.birch and aspen. The higher ground has blueberry and bracken fern, and the lower ground has med-tall brush.
54	42200 - Natural White Pine	Sawtimber Poor	14.5	64	1-50	Cut in 2002 - residual red & white pine. Regen check includes a variety of species: b.spruce, white pine, jack pine, red pine, p.birch, aspen and cherry. The higher ground has blueberry and bracken fern, and the lower ground has med-tall brush.
55	6125 - Lowland Black Spruce, Jack Pine	Sapling Well	15.3	14	Immature	Cut in 2002 - residual red and white pine. Regen check includes: b.spruce, white pine, jack pine, red pine, p.birch, aspen and cherry. The higher ground has blueberry and bracken fern, and the lower ground has med-tall brush.
56	42200 - Natural White Pine	Sawtimber Well	2.4	64	81-110	Pine island within the lowland.
57	42210 - Natural Red Pine	Sawtimber Well	1.1	61	51-80	Small island of Red Pine in large marsh.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	42210 - Natural Red Pine	Sawtimber Well	19.9	57	81-110	Cut in 2001. There is blueberry and bracken fern on the ridges, and med-tall brush in the low areas. Regen counts include a mix of species: b.spruce, jack pine, red pine, white pine, red maple and aspen. Some red pine were hand planted by inmates on higher ground. (See FTP #C41-888.)
59	42210 - Natural Red Pine	Sawtimber Well	54.1	64	51-80	[5/9/09] Stand is now under contract TS # 41-031-08-01 Turn Around Pine. Residual basal area: red pine = 50; white pine = 17; total = 67 sq.ft./acre. [6-29-10] Sale is now completed TCR dtd 6-29-10. South finger never got cut.
60	42210 - Natural Red Pine	Sawtimber Poor	21.5	66	1-50	[10-1-08]JS: This stand extends into the cmp to the west (cmp 120). The extension is less than 10 acres and it was not mapped out in cmp 120. It was added to 41-027-08-01 "Brown Hand Red Pine" sale. Ownership for the entire sale is Exchange USA. Comments were added to the existing stands in cmp 120 to explain the intrusion into the adjacent cmp. No new stands were created because they were less than 10 acres. [11-23-09] Stand is now under contract - TS 41-027-08-01 Brown Hand Red Pine. Residual BA: rp = 37; wp = 9; total = 46 sq.ft./acre. [8-10-12] Sale is now closed/completed TCR dtd 6-21-12. See FTP C41-1386. (RH10/29/12) scarified summer of 2012 by holli Fp regen check in 3 years per work instructions. Natural regen check = passed, 2016.
62	42210 - Natural Red Pine	Sawtimber Well	70.7	65	81-110	[11-23-09] Stand is now under contract - TS 41-027-08-01 Brown Hand Red Pine. Residual BA: rp = 66.5; wp = 24; total = 90.5 sq.ft./acre. [8-10-12] Sale is now closed/completed TCR dtd 6-21-12.
63	42210 - Natural Red Pine	Sawtimber Well	1.6	64	81-110	[10-1-08]JS: This stand extends into the cmp to the west (cmp 120). The extension is less than 10 acres and it was not mapped out in cmp 120. It was added to 41-027-08-01 "Brown Hand Red Pine" sale. Ownership for the entire sale is Exchange USA. Comments were added to the existing stands in cmp 120 to explain the intrusion into the adjacent cmp. No new stands were created because they were less than 10 acres. [11-23-09] Stand is now under contract - TS 41-027-08-01 Brown Hand Red Pine. Residual BA: rp = 130 sq.ft./acre. [8-10-12] Sale is now closed/completed TCR dtd 6-21-12.
64	42210 - Natural Red Pine	Sawtimber Well	9.3	62	51-80	[10-1-08]JS: This stand extends into the cmp to the west (cmp 120). The extension is less than 10 acres and it was not mapped out in cmp 120. It was added to 41-027-08-01 "Brown Hand Red Pine" sale. Ownership for the entire sale is Exchange USA. Comments were added to the existing stands in cmp 120 to explain the intrusion into the adjacent cmp. No new stands were created because they were less than 10 acres. [11-23-09] Stand is now under contract - TS 41-027-08-01 Brown Hand Red Pine. Residual BA: rp = 53; wp = 6; total = 59 sq.ft./acre. [8-10-12] Sale is now closed/completed TCR dtd 6-21-12. Regen check passed, 2016.
65	429 - Mixed Upland Conifers	Sawtimber Well	3.2	65	51-80	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	42210 - Natural Red Pine	Sawtimber Medium	2.4	65	1-50	[11-23-09] Stand is now under contract - TS 41-027-08-01 Brown Hand Red Pine. Residual BA: rp = 37; wp = 9; total = 46 sq.ft./acre. [8-10-12] Sale is now closed/completed TCR dtd 6-21-12.
69	42210 - Natural Red Pine	Sawtimber Poor	17.9	66	1-50	[10-1-08]JS: This stand extends into the cmp to the west (cmp 120). The extension is less than 10 acres and it was not mapped out in cmp 120. It was added to 41-027-08-01 "Brown Hand Red Pine" sale. Ownership for the entire sale is Exchange USA. Comments were added to the existing stands in cmp 120 to explain the intrusion into the adjacent cmp. No new stands were created because they were less than 10 acres. [11-23-09] Stand is now under contract - TS 41-027-08-01 Brown Hand Red Pine. Residual BA: rp = 34; wp = 20; total = 54 sq.ft./acre  [8-10-12] Sale is now closed/completed TCR dtd 6-21-12. See FTP C41-1386. (RH10/29/12) scarified summer of 2012 by holli Fp regen check in 3 years per work instructions. Regen check = passed, 2016.
70	42210 - Natural Red Pine	Sawtimber Well	60.1	65	51-80	[11-23-09] Stand is now under contract - TS 41-027-08-01 Brown Hand Red Pine. Residual BA: rp = 64; wp = 7; total = 71 sq.ft./acre. [8-10-12] Sale is now closed/completed TCR dtd 6-21-12.
71	42210 - Natural Red Pine	Sawtimber Well	1.3	67	51-80	Small stand within a large marsh.
72	42210 - Natural Red Pine	Sawtimber Well	2.1	72	51-80	Small stand within a large marsh.
73	42210 - Natural Red Pine	Sawtimber Well	7.0	66	111-140	Ridges/knolls in large marsh. Higher ground has red pine and blueberry; lower ground has white pine, aspen, tamarack and tall brush.
74	42210 - Natural Red Pine	Sawtimber Well	9.0	68	111-140	Small islands of pine within a large marsh.
75	42210 - Natural Red Pine	Sawtimber Well	1.8	63	141-170	Small ridge of red pine within a large marsh; very difficult access.
77	42290 - Natural Mixed Pine	Sawtimber Well	7.8	70	141-170	Island in marsh - very difficult access. Red pine and blueberry on higher ground; white pine and med/tall brush on lower ground.
78	42210 - Natural Red Pine	Sawtimber Well	6.2	66	111-140	Very narrow ridge within a large marsh. Very difficult access.
80	42210 - Natural Red Pine	Sawtimber Well	10.7	64	111-140	Small knolls/ridges of Red Pine within a large marsh. The lower ground connecting the ridges has tall brush and some white pine, b.spruce and aspen.
81	42210 - Natural Red Pine	Sawtimber Well	7.0	64	111-140	Small knolls/ridges of Red Pine within a large marsh. The lower ground connecting the ridges has tall brush and some white pine and aspen. There is an east/west ditch through this stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
84	42210 - Natural Red Pine	Sawtimber Well	13.7	64	141-170	Ridges within a large marsh - difficult access. Red pine and blueberry on higher ground; white pine, tamarack, and aspen with med/tall brush on lower ground.
85	42210 - Natural Red Pine	Sawtimber Well	1.2	69	111-140	Small red pine ridge within a large marsh and near a ditch; difficult access.
86	42220 - Natural Jack Pine	Sapling Well	2.6	16	Immature	Cut with adjacent compartment 120. The regeneration is a mix of jack pine, b.spruce and red pine. The higher ground has blueberry and bracken fern, and the lower ground has med/tall brush.
87	42210 - Natural Red Pine	Sawtimber Well	2.4	69	51-80	Low, wet, flat ground - slightly higher than surrounding low area. Difficult access: marshes and ditches.
88	42220 - Natural Jack Pine	Sapling Well	0.7	16	Immature	Cut with adjacent compartment 120. The regeneration is a mix of jack pine, b.spruce and red pine. The higher ground has blueberry and bracken fern, and the lower ground has med/tall brush.
89	42220 - Natural Jack Pine	Sapling Well	1.4	16	Immature	Cut with adjacent compartment 120. The regeneration is a mix of jack pine, b.spruce and red pine. The higher ground has blueberry and bracken fern, and the lower ground has med/tall brush.
90	42320 - Upland Spruce	Poletimber Well	1.7	66	111-140	Flat ground. Difficult access due to marshes and ditches.
91	42210 - Natural Red Pine	Sawtimber Well	4.8	69	141-170	Small ridge within a large marsh. There is a north/south ditch within the stand. Difficult access.
92	42210 - Natural Red Pine	Sawtimber Well	18.8	66	141-170	Rdges & knolls connected by brush and a few trees. Higher ground with red pine and blueberry; lower, flatter ground with white pine, aspen and med/tall brush. There are a few oak trees on high ground. Difficult access due to low, wet ground and ditches.
93	42210 - Natural Red Pine	Sawtimber Well	3.0	64	51-80	[5/9/09] Stand is now under contract TS # 41-031-08-01 Turn Around Pine. Residual basal area: red pine = 75; white pine = 5; total = 80 sq.ft./acre. [6-29-10] Sale is now completed TCR dtd 6-29-10.
94	42210 - Natural Red Pine	Sawtimber Well	6.4	64	111-140	Mix of red and white pine. Difficult access due to low, wet areas and ditches.
95	42210 - Natural Red Pine	Sawtimber Well	1.1	66	111-140	Small red pine knoll within a large marsh. Most of the regeneration is 1-3"DBH red pine.
96	42210 - Natural Red Pine	Sawtimber Well	2.8	66	141-170	Small island within a marsh. A mix of red and white pine with some aspen.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	42210 - Natural Red Pine	Sawtimber Well	8.7	66	81-110	Small pine island within a large marsh; very difficult access. Red Pine and blueberry on the higher ground, and white pine, aspen and med/tall brush on the lower ground.
100	42210 - Natural Red Pine	Sawtimber Well	5.8	66	81-110	Small pine island within a large marsh; very difficult access. Red Pine and blueberry on the higher ground, and white pine, aspen and med/tall brush on the lower ground. Near Seney NWR. Soil
101	42210 - Natural Red Pine	Sawtimber Well	2.0	66	81-110	Small pine island within a large marsh; very difficult access. Red Pine and blueberry on the higher ground, and white pine, aspen and med/tall brush on the lower ground. Near Seney NWR.
102	42210 - Natural Red Pine	Sawtimber Well	3.7	66	81-110	Small pine island within a large marsh; very difficult access. Red Pine and blueberry on the higher ground, and white pine. Near Seney NWR.
105	42220 - Natural Jack Pine	Sapling Well	14.6	21	Immature	SCA - State WL Area, Bullock Ranch. Part of a large grass opening complex that is filling in with trees. [5/10/2011] W41-1347 Received completion report with no cost information available. FTP is closed.
106	42220 - Natural Jack Pine	Sapling Poor	7.1	21	Immature	SCA - State WL Area, Bullock Ranch. Part of a large grass opening complex that is filling in with trees. [5/10/2011] W41-1347 Received completion report with no cost information available. FTP is closed.
107	42210 - Natural Red Pine	Sawtimber Medium	2.0	66	51-80	SCA - State WL Area, Bullock Ranch. Small ridge of Red Pine within a large grass opening.
108	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	2.0	35	111-140	SCA - State WL Area, Bullock Ranch. Small clone of aspen with a few pine trees mixed in. Part of a large grassy opening complex.
109	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	1.2	54	51-80	SCA - State WL Area, Bullock Ranch. Small knoll with red and white pine.
110	4133 - Aspen, Mixed Pine	Poletimber Well	1.4	35	51-80	SCA - State WL Area, Bullock Ranch. Small clone of aspen with a few pine trees mixed in. Part of a large grassy opening complex.
111	42220 - Natural Jack Pine	Sapling Well	24.9	21	Immature	SCA - State WL Area, Bullock Ranch. Part of a large grass opening complex that is filling in with trees. [5/10/2011] W41-1347 Received completion report with no cost information available. FTP is closed.
114	6124 - Lowland Spruce-Fir	Poletimber Medium	25.2	51	81-110	Narrow strip of trees (apx. 33') between the railroad R.O.W. and M-28 R.O.W..
115	6112 - Lowland Aspen	Sapling Poor	59.9	15	Immature	SCA - State WL Area, Bullock Ranch. Low, wet ground adjacent to M-28, and a north-south ditch.



Stand	Cover Type	Acres	Managed Site	General Comments:
33	6229 - Mixed lowland shrub	5.8	No	SCA - State WL Area, Bullock Ranch. Flat, seasonally wet ground with tall brush species including willow and alder. Some scattered aspen. Near M-28.
61	6229 - Mixed lowland shrub	2.1	No	Low, wet ground with tall alder & other brush.
66	6229 - Mixed lowland shrub	45.6	No	Low, wet area with tall alder and other brush. Scattered Aspen and Red Pine.
67	6229 - Mixed lowland shrub	978.6	No	Low, wet area with tall alder and other brush. Scattered Aspen and Red Pine.
104	6229 - Mixed lowland shrub	9.9	No	SCA - State WL Area, Bullock Ranch. Seasonal drainage. Ground cover consists of raspberry, red osier dogwood, willow & alder.
112	6229 - Mixed lowland shrub	201.9	No	Low, wet area with tall brush. Some scattered trees: aspen, red pine, white pine, jack pine.
116	122 - Road/Parking Lot	9.4	No	M-28 R.O.W.
401	3102 - Grass	240.8	Yes	SCA - State WL Area, Bullock Ranch. Opening maintenance: remove all conifers over 3' tall. Do not remove large Red Pine. [5/10/2011] W41-1347 Received completion report with no cost information available. FTP is closed.
402	3102 - Grass	618.5	Yes	SCA - State WL Area, Bullock Ranch. Opening maintenance: remove all conifers over 3' tall. Do not remove large Red Pine. [9/8/06 KM] FTP W41-1310 was written using 1998 data for opening maintenance, involving the removal of spotted knapweed. The FTP is for stands 401 and 402, which are now combined into one stand 402.FTP# W41-1467 Spotted Knapweed Biological Control Release.[10/27/10] Received completion report for spotted knapweed biological control release. MSU will monitor impacts.[3/22/11] FTP #W41-1310 Cancelled per the 2012 review. [5/10/2011] W41-1347 Received completion report with no cost information available. FTP is closed.
404	3102 - Grass	9.8	No	SCA - State WL Area, Bullock Ranch. Opening maintenance: remove all conifers over 3' tall. Do not remove large Red Pine. [5/10/2011] W41-1347 Received completion report with no cost information available. FTP is closed.