Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 118
Entry Year 2016
Acreage: 3,558
County Schoolcraft
Management Area: Bullock Ranch

Revision Date:

Stand Examiner: Scott Kentner

Legal Description:

T46N R14W Sections 22, 23, 25-28

Identified Planning Goals:

This compartment has traditionally been managed for wildlife species using large openings.

Soil and topography:

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Collingwood and Utica Shales and the Trenton Group subcrop below the glacial drift. The Trenton is quarried for stone/dolomite. Gravel pits at not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

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

The entire compartment is state owned land. There are private hunting camps to the northwest of the compartment.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

none

Watershed and Fisheries Considerations:

Poor. Sections of Two Mile Ditch and Holland Ditch are found in this compartment.

Wildlife Habitat Considerations:

This compartment is bounded on the south by M-28 and contains the Holland Ditch (creek). The landscape in the western portion of the compartment is dominated by large grassy openings and on the east by marsh/pine ridge systems. The first surveyors noted the entire compartment was comprised of the marsh/pine ridge systems. Circa 1900, several ditches were dug to drain this area for agricultural purposes. In the western portion of the compartment these efforts resulted in dry, fairly sterile grass systems containing dried peat lenses in the soils. In the eastern portion of the compartment, drainage efforts converted sedge dominated wetlands into willow dominated wetlands. Pre-settlement forest on the ridges contained tamarack, spruce, red pine, and white pine.

Current vegetation is substantially different from the pre-settlement condition. The western portion of the compartment is dominated by sparse grass in a large opening complex. There has been an increase in the amount of aspen, jack pine, and willow with a concurrent decrease in wet sedge meadow, tamarack, and spruce.

The wildlife habitat objectives in this compartment center upon maintaining the large opening complexes for associated species and preventing any further damage of the hydrological system in the area.

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 Collingwood and Utica Shales and the Trenton Group subcrop below the glacial drift. The Trenton is quarried for stone/dolomite. Gravel pits at 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:

Although there are two dirt roads in the west part of the compartment, vehicular access to the majority of the compartment is non-existent.

Survey Needs:

none.

Recreational Facilities and Opportunities:

There are no DNR recreational facilities within the compartment, but there is a MDOT rest area on M-28 in section 27. This compartment is used by deer, bear and bird hunters.

Fire Protection:

Fire operations will be difficult due to the lack of roads, the number of ditches and drainages present and the predominantly organic soil types.

Additional Compartment Information:

The following reports from the Inventory are attached:

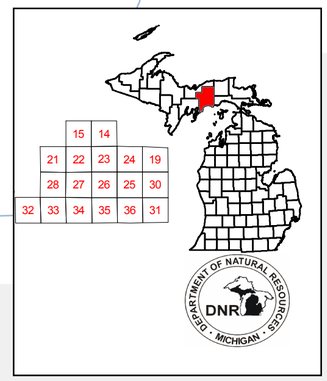
- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition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

Compartment: 118
T46N R13W
19 30 31
T46N R14W
14 15 21 22 23 24 25 26 27 28 32 33 34 35 36
County: Schoolcraft
Unit: Shingleton
Management Area: Bullock Ranch
YOE: 2016
Acres: 3,558 GIS Calculated
Examiner: Scott Kentner
Map Revised: 07/30/2014
Map Phase: Pre-Review



Legend

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Pipeline
- Powerline
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Non-Forest Regeneration

Planned Regeneration

- Natural
- Planted

Treatments

- Seed Tree (w/Reserves)
- Clearcut (w/Reserves, Patch/Strip)
- Treatments w/ Site Condition

Forest Stands

Level 3

- 413 - Aspen Types
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil

Stand # 23
Stocking Density
(412)0) - A7
Level 3 Level 4 OI Code
Cover Type Code

41114023-Cut1
41114027-Cut1

1 0.5 0 1 Miles

86°40'0"W 86°30'0"W 86°20'0"W 86°10'0"W 86°0'0"W 85°59'0"W 85°58'0"W
46°23'0"N 46°22'0"N 46°21'0"N

Stand Boundary Map

Compartment: 118
T46N R13W
19 30 31
T46N R14W
14 15 21 22 23 24 25 26 27 28 32 33 34 35 36
County: Schoolcraft
Unit: Shingleton
Management Area: Bullock Ranch
YOE: 2016
Acres: 3,558 GIS Calculated
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Map Revised: 07/30/2014
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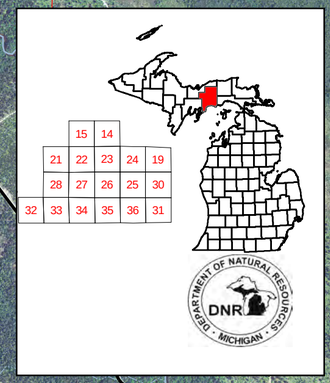


Stand # 23
Stocking Density
(412)0) - A7
Level 3 Level 4 OI Code
Cover Type Code

22 23 28 27 26 25

Legend
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Pipeline
- Powerline
- Stand Boundaries

1 0.5 0 1 Miles

86°5'0"W 86°4'0"W 86°3'0"W 86°2'0"W 86°1'0"W 86°0'0"W 85°59'0"W
46°22'0"N 46°21'0"N 46°20'0"N

Special Conservation Areas & Site Conditions Map

Compartment: 118
T46N R13W
19 30 31
T46N R14W
14 15 21 22 23 24 25 26 27 28 32 33 34 35 36
County: Schoolcraft
Unit: Shingleton
Management Area: Bullock Ranch
YOE: 2016
Acres: 3,558 GIS Calculated
Examiner: Scott Kentner
Map Revised: 07/30/2014
Map Phase: Pre-Review

Legend

- Miris Corners
- Stand Boundaries

Site Condition Available

- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

Site Condition Type

Available Factors W/ Constraints

- 5B: Retention for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality

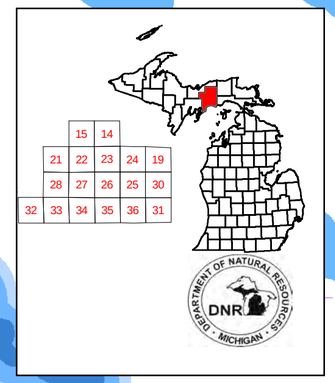
Reviewable SCAs

Proposed SCA's

- Proposed SCA
- SCA Removal

Dedicated Special Conservation Areas

- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas



Stand # 23 — Stocking Density
(412)0) - A7
Level 3 OI
Level 4 Code
Cover Type Code

5A - 004
5A - 005
5A - 006
5A - 007
5A - 008
5A - 009
5A - 010
5A - 011
5B - 002
5C - 003

1 6121-T6 | 2 4221-R9 | 3 4132-A5 | 4 4130-A4 | 5 4221-R5 | 6 4311-UM6 | 7 6121-T6 | 8 622-L0 | 9 6112-P3 | 10 4222-J5 | 11 4222-J4 | 12 6126-J6 | 13 310-G0 | 14 622-L0 | 15 4229-MC9 | 16 4222-J5 | 17 310-G0 | 18 6117-E6 | 19 6117-E6 | 20 6112-P4 | 21 6126-J5 | 22 6127-Q7 | 23 6112-P3 | 24 310-G0 | 25 4222-J5 | 26 4222-J5 | 27 4221-R9 | 28 6139-LM5 | 29 6122-S9 | 30 6117-E6 | 31 4226-MC6 | 32 4221-R7 | 33 4222-J3 | 34 4221-R8 | 35 622-L0 | 36 6112-P4 | 37 6117-E4 | 38 4226-MC5 | 39 6117-E3 | 40 110-X0 | 41 4222-J6 | 42 4229-MC9 | 43 4221-R9 | 44 4222-J9 | 45 4221-R9 | 46 4222-J6 | 47 4221-R6 | 48 310-G0 | 49 710-Y0 | 50 4221-R6 | 51 4220-W9 | 52 4220-W9 | 53 4221-R6 | 54 4221-R9 | 55 4222-J6 | 56 622-L0 | 57 310-G0 | 58 4222-J5 | 59 4229-MC9 | 60 622-L0 | 61 4221-R9 | 62 4222-J6 | 63 622-L0 | 64 429 -MC8 | 65 4221-R9 | 66 4221-R9 | 67 4229-MC6 | 68 4221-R8 | 69 500-Z0 | 70 4221-R8 | 71 4221-R6 | 72 4221-R9 | 73 6117-E9 | 74 4221-R6 | 75 4221-R6 | 76 4229-MC8 | 77 4221-R9 | 78 6127-Q9 | 79 6117-E4 | 80 4221-R9 | 81 4221-R9 | 82 4222-J6 | 83 4221-R8 | 85 | 86 623-N0 | 87 6117-E3 | 88 4221-R9 | 89 4221-R8 | 90 4221-R6 | 91 500-Z0 | 92 4222- | 93 622-L0 | 94 4221-R7 | 95 4221-R9 | 96 4221-R6 | 97 4221-R | 99 622-L0 | 100 4221-R8 | 101 4221-R8 | 102 622-L0 | 103 4221-R9 | 104 4221-R9 | 105 4221-R9 | 106 4221-R9 | 107 4222-J6 | 108 4221-R9 | 110 4221-R9 | 111 4222-J6 | 112 4221-R7 | 113 622-L0 | 114 4221-R8 | 115 4221-R9 | 116 622-L0 | 117 4222-J6 | 118 4222-J6 | 119 4221-R9 | 120 6117-E5 | 122 4222-J6 | 123 | 124 4221-R9 | 125 4222-J9

1 0.5 0 1 Miles

86°50'0"W 86°40'0"W 86°30'0"W 86°20'0"W 86°10'0"W 86°0'0"W 85°59'0"W
46°23'0"N 46°22'0"N 46°21'0"N

Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit **Compartment 118 Year of Entry 2016**

Scott Kentner : Examiner

Age Class

	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 +	Uneven Age	Total
Aspen	0	66	0	0	0	0	0	0	0	0	0	0	0	0	**66**
Herbaceous Openland	714	0	0	0	0	0	0	0	0	0	0	0	0	0	**714**
Jack Pine	0	0	16	141	86	7	45	3	0	0	0	0	0	0	**297**
Lowland Aspen/Balsam Poplar	77	0	0	29	8	0	0	0	0	0	0	0	0	0	**114**
Lowland Conifers	0	0	0	0	0	0	7	82	17	0	0	0	0	0	**106**
Lowland Deciduous	18	18	93	111	159	0	0	0	0	0	0	0	0	0	**399**
Lowland Mixed Forest	0	0	23	0	0	0	0	0	0	0	0	0	0	0	**23**
Lowland Shrub	1134	0	0	0	0	0	0	0	0	0	0	0	0	0	**1134**
Lowland Spruce/Fir	0	0	0	0	0	7	0	0	0	0	0	0	0	0	**7**
Marsh	30	0	0	0	0	0	0	0	0	0	0	0	0	0	**30**
Natural Mixed Pines	0	0	0	0	51	14	23	38	2	0	0	0	0	0	**128**
Red Pine	0	0	0	0	19	5	195	167	31	3	0	0	0	0	**421**
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
Tamarack	0	0	0	35	8	0	0	0	0	0	0	0	0	0	**43**
Upland Conifers	0	0	0	0	0	17	0	0	0	0	0	0	0	0	**17**
Upland Mixed Forest	0	0	27	0	0	0	0	0	0	0	0	0	0	0	**27**
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	**12**
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
White Pine	0	0	0	0	0	0	0	0	15	0	0	0	0	0	**15**
Total	**1988**	**84**	**159**	**316**	**331**	**51**	**270**	**289**	**65**	**3**	**0**	**0**	**0**	**0**	**3558**

Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2016

Compartment 118
Total Compartment Acres: 3,558

Acres by Treatment Type

Commercial Harvest - 252	Tree Planting - 3	Other - 0
Habitat Cut - 0	Opening Maintenance - 688	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
	0	0	17	0	6	0	**23**
Natural Pines	139	0	90	0	0	0	**229**
Total	**139**	**0**	**107**	**0**	**6**	**0**	**252**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	41114027-Cut1	16.2	42260 - Natural Pine, Mixed Deciduous	High Density Log	88		Harvest	Clearcut with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal

Prescription Specs: Clear-cut with reserves. Retention should be in pockets, focus on areas heavy to Red pine.

Other Comments:

Next Steps: Scarify of possible, if not hand plant to Jack pine.

Proposed Start Date: 10/01/2013

41118_OutOfYOE_1-Cut	4.4	Harvest	Crown Thinning	42210 - Natural Red Pine	Fld. Tr. Bdy.	

Prescription Specs: Cut all Jack Pine and mark Red and White Pine to 90 BA

Other Comments: Cut with stand 34 comp 117

Next Steps: --Robert Burnham : 11/30/2012 comments: Stand is on Proposal, Son of a Ditch Pine, Unit 6. Residual BA = red pine 54' and white pine 12'

Proposed Start Date: 10/01/2015

41118_OutOfYOE_3-Cut	17.2	Harvest	Seed Tree with Reserves	42220 - Natural Jack Pine	Fld. Tr. Bdy.	

Prescription Specs: Clear cut all, this is in order to help with aerial application of herbicide if necessary for regeneration.

Other Comments: Use fire to regenerate, scarify, trench and plant, herbicide.

Next Steps: --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 5. Residual BA = red pine 10', FTP C41-1554 is submitted for Prescribed burning stand.

Preferred regeneration is jack pine but any mix of pine is acceptable. Check regeneration as recomended by work instructions. FTP C41-1554

Proposed Start Date: 10/01/2011

41118_OutOfYOE-Cut	1.3	Harvest	Crown Thinning	42210 - Natural Red Pine	Fld. Tr. Bdy.	

Prescription Specs: Thin red pine to 90 BA cut all jack pine and aspen

Other Comments: cut with stand 23 in comp117

Next Steps: --Robert Burnham : 11/30/2012 comments: Stand is on Proposal, Son of a Ditch Pine, Unit 4. Residual BA = red pine 70

Proposed Start Date: 10/01/2011

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	41118002-Cut	3.7	42210 - Natural Red Pine	High Density Log	48	51-80	Harvest	Clearcut with Reserves	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: Clear cut all merchantable tress within stand, approriate buffer should be placed along ditch as retention, buffer will run atop the ridge 20 to 30ft away. Place 2 inch specification on harvest. No harvesting between April 1 and June 15 due to Sharp-tail grouse nesting requirements.

Other Comments: Access is through private using bridge spaning ditch.

Next Steps: After Harvest maintain as grass opening.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	41118005-Cut	0.9	42210 - Natural Red Pine	Medium Density Pole	55	81-110	Harvest	Clearcut	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: Clear cut all merchantable trees within stand leaving no retention. Place 2 inch specification on harvest. No harvesting between April 1 and June 15 due to Sharp-tail nesting requirements.

Other Comments: No retention is needed due to stand being converted to a non-forest stand.

Next Steps: After harvest maintain as grass opening.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	41118015-Cut	37.5	42290 - Natural Mixed Pine	High Density Log	75	51-80	Harvest	Clearcut with Reserves	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: Clear cut all merchantable trees within stand, leaving a buffer along ditch which runs through the stand, this buffer will run atop the ridge, about 20 to 30ft away. Place the 2 inch specification on the harvest. No harvesting between April 1 and June 15 due to Sharp-tail grouse nesting requirements.

Other Comments:

Next Steps: After harvest, manage as a grass opening.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	41118034-Cut	22.7	42210 - Natural Red Pine	Medium Density Log	70	51-80	Harvest	Clearcut	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: Clear cut all merchantable trees within stand leaving no retention. Place 2 inch specification on harvest. No harvesting between April 1 and June 15, due to Sharp-tail Grouse nesting requirements.

Other Comments: No retention needed due to stand being converted to a non-forested stand.

Next Steps: After harvest maintain as grass opening.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44	41118044-Cut	18.0	42220 - Natural Jack Pine	High Density Log	66	51-80	Harvest	Clearcut	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: Clear cut all merchantable trees within stand leaving no retention. Place 2 inch specification on harvest. No harvesting between April 1 and June 15 due to Sharp-tail grouse nesting requirements.

Other Comments: No retention needed due to stand being converted to a non-forested stand.

Next Steps: After harvest maintain as grass opening.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61	41118061-Cut	7.8	42210 - Natural Red Pine	High Density Log	78	111-140	Harvest	Clearcut	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: Clear cut all merchantable trees within stand leaving no retention. Place 2 inch specification on harvest. No harvesting between April 1 and June 15 due to Sharp-tail grouse nesting requirements.

Other Comments: No retention needed due to stand being converted to a non-forested stand.

Next Steps: After harvest maintain as grass opening.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
66	41118066-Cut	1.0	42210 - Natural Red Pine	High Density Log	89	111-140	Harvest	Clearcut	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: Clear cut all merchantable trees within stand leaving no retention. Place 2 inch specification on harvest. no harvesting between April 1 and June 15 due to Sharp-tail grouse nesting requirements.

Other Comments: No retention needed due to stand being converted to a non-forested stand.

Next Steps: After harvest maintain as grass opening.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
111	41118111-Cut	9.8	42220 - Natural Jack Pine	High Density Pole	64	81-110	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Specs: Clear cut stand. Retention should be in pockets (focus pockets in areas heavy to Red pine).

Other Comments:

Next Steps: Scarify if possible, if not hand plant to Jack pine.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
115	41118115-Cut	10.1	42210 - Natural Red Pine	High Density Log	75	81-110	Harvest	Seed Tree	4221 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Cut all trees within stand, except Green Treed Red Pine (10-20 BA) to be left as seed source.

Other Comments: No additional retention should be left so that adament sunlight can reach forest floor and promote natural regeneration.

Next Steps: Scarify stand, if natural regeneration fails hand plant to Red pine.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
117	41118117-Cut	8.8	42220 - Natural Jack Pine	High Density Pole	68	81-110	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Specs: Cut all Jack pine. green tree Scattered Red Pine throughout stand as rentention and future seed source.

Other Comments:

Next Steps: Scarify if possible, if not hand plant with Jack Pine.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
121	41118121-Cut	4.4	42220 - Natural Jack Pine	High Density Pole	49	81-110	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Specs: Clear cut all merchantable trees within stand, retention should be in pockets.

Other Comments:

Next Steps: Scarify stand if possible, if not hand plant to Jack Pine.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
122	41118122-Cut	1.3	42220 - Natural Jack Pine	High Density Pole	52	81-110	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Specs: Clear-cut all Jack Pine trees within stand, Leave retention pocket within stand.

Other Comments:

Next Steps: Scarify stand if possible, if not hand plant to Jack pine.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
124	41118124-Cut	10.0	42210 - Natural Red Pine	High Density Log	70	51-80	Harvest	Seed Tree	4221 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Cut all trees within stand, except Green Treed Red Pine (10-20 BA) to be left as seed source.

Other Comments: No additional retention should be left so that adament sunlight can reach forest floor and promote natural regeneration.

Next Steps: Scaify stand, if natural regneration fails, hand plant to Red pine.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	NF_41118013-NonFor	151.0	3105 - Mixed Upland Herbaceous				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Tall grass Prairie Restoration to establish native warm and cool season grasses on the Bullock Ranch for sharp-tail grouse and other wildlife species.

Other Comments:

Next Steps: Continue farming practices to get desired grass species and other habitat/mast/fruit trees.

Proposed Start Date: 04/17/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17	NF_41118017-NonFor	294.2	3105 - Mixed Upland Herbaceous				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Tallgrass Prairie Restoration to establish native warm and cool season grasses on Bullock Ranch for sharp-tail grouse and other wildlife species.

Other Comments:

Next Steps: Continue farming practices to keep grass openings and establish fruit/ mast trees.

Proposed Start Date: 04/17/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24	NF_41118024-NonFor	93.6	3105 - Mixed Upland Herbaceous				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Tallgrass Prairie Restoration to establish native warm and cool season grasses on Bullock Ranch for sharp-tail grouse and other wildlife species.

Other Comments:

Next Steps: Continue farming practices to mantain openings and establish fruit/mast trees.

Proposed Start Date: 04/17/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
48	NF_41118048-NonFor	149.1	3105 - Mixed Upland Herbaceous				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Tallgrass Prairie restoration to establish native warm and cool season grasses on Bullock Ranch for sharp-tail grouse and other wildlife species.

Other Comments:

Next Steps: Continue farming practices to maintain openings and establish fruit/mast trees.

Proposed Start Date: 04/17/2014

Total Treatment Acreage Proposed: 863.1

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
84	41118084-Cut	6.6	42210 - Natural Red Pine	High Density Pole	74	141-170	Harvest	Seed Tree	4221 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Seed tree cut: Green tree 10-20 BA of Red pine as seed source, cut all remaining trees.

Other Comment:

Next Steps: Scarify stand if possible, if not hand plant red pine.

Proposed Start Date: 10/01/2015

Limiting Factor: 5A: Not able to obtain desirable regeneration

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
85	41118085-Cut	31.1	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	78	111-140	Harvest	Seed Tree	4221 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Cut all trees within stand, except Green Treed Red Pine (10-20 BA) to be left as seed source.

Other Comment: No additional retention should be left so that adament sunlight can reach forest floor and promote natural regeneration.

Next Steps: Scarify stand, if natural regneration fails, plant to Red pine.

Proposed Start Date: 10/01/2015

Limiting Factor: 5A: Not able to obtain desirable regeneration

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
92	41118092-Cut	1.0	42220 - Natural Jack Pine	High Density Log	69	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Specs: Clear-cut stand.

Other Comment: No retention is needed due to small stand size.

Next Steps: Scarify stand, if natural regeneration fails, hand plant to Jack pine.

Proposed Start Date: 10/01/2015

Limiting Factor: 5A: Not able to obtain desirable regeneration

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
95	41118095-Cut	7.5	42210 - Natural Red Pine	High Density Log	80	141-170	Harvest	Clearcut with Reserves	4221 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Clear cut stand, retention should be in pockets.

Other Comment:

Next Steps: Scarify if possible, if not hand plant Red pine.

Proposed Start Date: 10/01/2015

Limiting Factor: 5A: Not able to obtain desirable regeneration

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
96	41118096-Cut2	1.0	42210 - Natural Red Pine	High Density Pole	69	111-140	Harvest	Clearcut	4221 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Clear cut stand.

Other Comment: No retention needed due to small stand size,

Next Steps: Scarify, if not possible hand plant to Red Pine.

Proposed Start Date: 10/01/2015

Limiting Factor: 5A: Not able to obtain desirable regeneration

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
97	41118097-Cut	3.6	42210 - Natural Red Pine	High Density Log	72	81-110	Harvest	Clearcut	4221 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Clear-cut stand.

Other Comment: No retention is needed due to small stand size.

Next Steps: Scarify stand, if natural regeneration fails, hand plant to Red pine.

Proposed Start Date: 10/01/2015

Limiting Factor: 5A: Not able to obtain desirable regeneration

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
98	41118098-Cut	3.3	42210 - Natural Red Pine	High Density Log	79	141-170	Harvest	Clearcut	4221 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Clear-cut stand.

Other Comment: No retention is needed due to small stand size.

Next Steps: Scarify stand, if fails hand plant to Red pine.

Proposed Start Date: 10/01/2015

Limiting Factor: 5A: Not able to obtain desirable regeneration

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
109	41118109-Cut1	26.4	42210 - Natural Red Pine	High Density Log	69	111-140	Harvest	Seed Tree	4221 - Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Cut all trees within stand, except Green Treed Red Pine (10-20 BA) to be left as seed source.

Other Comment: No additional retention should be left so that adament sunlight can reach forest floor and promote natural regeneration.

Next Steps: Scarify stand, if natural regeneration fails, hand plant to Red pine.

Proposed Start Date: 10/01/2015

Limiting Factor: 5A: Not able to obtain desirable regeneration

Total Treatment Acreage Proposed: 80.4

Report 5 – Site Conditions

Shingleton Mgt. Unit | **Compartment 118**

Scott Kentner : Examiner | **Year of Entry 2016**

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions No	5C	5B	5A
66	66		**Aspen**	66			
297	296	1	**Jack Pine**	296			1
114	114		**Lowland Aspen/Balsam Poplar**	114			
106	106		**Lowland Conifers**	89	17		
399	399		**Lowland Deciduous**	399			
23	23		**Lowland Mixed Forest**	23			
7	7		**Lowland Spruce/Fir**	7			
128	128		**Natural Mixed Pines**	128			
421	342	79	**Red Pine**	327		14	79
43	43		**Tamarack**	43			
17	17		**Upland Conifers**	17			
27	27		**Upland Mixed Forest**	27			
15	15		**White Pine**	15			
1,665	1,585	80	Total Forested Acres	1,553	17	14	80
	95%	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
002	**Available**	**5B: Maintain for regeneration purposes**	15				

Comments:

Stand inly has 25% to 30% canopy cover very few but large old trees.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	17				

Comments:

Stand has low canopy closure at only 25-30%.

004	**Not Available**	**5A: Not able to obtain desirable regeneration**	7	
	Comments:			
005	**Not Available**	**5A: Not able to obtain desirable regeneration**	3	
	Comments:			
006	**Not Available**	**5A: Not able to obtain desirable regeneration**	1	
	Comments:			
007	**Not Available**	**5A: Not able to obtain desirable regeneration**	1	
	Comments:			
008	**Not Available**	**5A: Not able to obtain desirable regeneration**	4	
	Comments:			
009	**Not Available**	**5A: Not able to obtain desirable regeneration**	31	
	Comments:			

010	**Not Available**	**5A: Not able to obtain desirable regeneration**	8
	Comments:		
011	**Not Available**	**5A: Not able to obtain desirable regeneration**	26
	Comments:		

Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres

Comments

Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6121 - Tamarack	High Density Pole	8.2	49	51-80	Very similar to stand 7, which is divided by this stand only by a drainage. Tamarack stand with some aspen and Black Spruce mixed in.
2	42210 - Natural Red Pine	High Density Log	3.7	48	51-80	Nice looking Red pine stand, is surrounded by a stream and private land.
3	4132 - Aspen, Jack Pine	Medium Density Pole	5.1	19	1-50	Mix of Aspen and Jack. Scraggly looking trees, open in areas.
4	4130 - Aspen	Low Density Pole	60.9	15	1-50	Open stand with patchy young aspen filling in the once open area. Tag alder is thick along multiple drainages.
5	42210 - Natural Red Pine	Medium Density Pole	0.9	55	81-110	Red pine ridge, small acerage.
6	4311 - Pine, Aspen Mix	High Density Pole	27.3	25	1-50	Mixed stand, Aspen with mixed conifer lowland. Lowland area with poor growth. North is higher to Jack Jack pine.
7	6121 - Tamarack	High Density Pole	35.2	37	81-110	Patchy stand, some thick patches of aspen. Mostly Tamarack with Black spruce intermixed, pole size stand.
9	6112 - Lowland Aspen	High Density Sapling	62.2	7	141-170	Very young aspen, past timber sale, growing back to half aspen and have tag alder. Unspecified species = Tag Alder
10	42220 - Natural Jack Pine	Medium Density Pole	36.0	35	51-80	Open grown Jack Pine with some thicker patches. A few black spruce in clumps.
11	42221 - Natural Jack Pine, Mixed Deciduous	Low Density Pole	22.0	30	1-50	open grown Jack Pine stand with thick patches of younger aspen.
12	6126 - Lowland Jack Pine	High Density Pole	37.4	48	51-80	Jack pine lowland with aspen in areas. Jack pine is 1-3 sticks.
15	42290 - Natural Mixed Pine	High Density Log	37.5	75	51-80	This is the river buffer. Timber is mature to cut, but with the river buffer there would be no part of the stand left to cut. White pine and Jack Pine dominate stand. Sand is upland with stream cutting through center in deep ditch.
16	42220 - Natural Jack Pine	Medium Density Pole	15.0	40	51-80	Jack pine stand with some other species mixed in, some open areas, generally patchy.
18	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	111.1	38	51-80	Aspen stand with Jack pine ridges/higher areas intermixed. Jack pine is older than Aspen. BA is variable.
19	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	48.7	28	51-80	Lowland aspen with Jack pine in high areas. Many drainages with tag alder.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6112 - Lowland Aspen	Low Density Pole	7.6	45	1-50	Open with scattered Aspen, some tamarack and black spruce scattered. Tag alder understory throughout.
21	6126 - Lowland Jack Pine	Medium Density Pole	29.6	39	51-80	Jcak pine ridge with aspen mixed in, all about 25-30 years old.
22	6127 - Lowland Pine	Low Density Log	81.7	70	1-50	Large open area with tag alder, small ridges scattered throughout stand are where pine is present. Ridges are very small in size, but are dense with large trees. Very wet soil in between ridges, open water even in cold weather.
23	6112 - Lowland Aspen	High Density Sapling	15.3	5		Tag Alder with some small Aspen around drainage and small pond area. Unspecified = Tag Alder
25	42220 - Natural Jack Pine	Medium Density Pole	10.8	33	1-50	Jack pine and red pine stand intermixed with each other in pockets. Stream runs through stand, stand acts as buffer.
26	42220 - Natural Jack Pine	Medium Density Pole	12.5	48	1-50	Open grown Jack Pine, young aged.
27	42210 - Natural Red Pine	High Density Log	1.3	70	81-110	Ridge of red pine, mostly 14" and above DBH but some small poles mixed in. Small acreage surrounded by very lowland.
28	6139 - Mixed Lowland Forest	Medium Density Pole	22.8	20	51-80	Mixed Bag of Red pine and Aspen intermixed with Tag Alder understory. Patchy in some areas with open spots. Uneven aged all species.
29	6122 - Black Spruce	High Density Log	7.2	55	51-80	Black spruce lowland, drainages.
30	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	65.8	40	51-80	Large stand, mostly Aspen in lowland areas, with ridges of Jack pine and Red pine running in lines/clumps throughout. Aspen is poor quality. Many drainages throughout stand.
31	42260 - Natural Pine, Mixed Deciduous	High Density Pole	45.0	45	51-80	Ridges of pine (mostly Jack Pine) with Aspen filling in the gaps and lowland areas.
32	42210 - Natural Red Pine	Low Density Log	16.7	60	1-50	Open grown Red Pine with a mix of other species intermixed. Short branchy Red Pine.
33	42220 - Natural Jack Pine	High Density Sapling	3.2	22	81-110	Jack Pine stand, almost looks like a plantation but not in any kind of rows. Young in age.
34	42210 - Natural Red Pine	Medium Density Log	22.7	70	51-80	Mixed Pine stand, clumps of Red pine that vary in age and size. Jack Pine mixed in stand, all about 1 to 2 sticks tall.
36	6112 - Lowland Aspen	Low Density Pole	29.1	30	1-50	Drainage with scattered Aspen, some in clumps, mostly tag alder, very wet.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	37.7	25	1-50	Lowland Aspen, very open with many wet areas/drainages. Some scattered species on very small upland areas. poor Aspen, branchy/short.
38	42260 - Natural Pine, Mixed Deciduous	Medium Density Pole	11.2	62	51-80	Mix of Jack Pine and Aspen, younger in age. Open areas intermixed with Tag Alder.
39	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	18.4	5	141-170	Tag alder lowland along stream. Some small Aspen mixed in. Unspecified = Tag Alder. Dead pines scattered throughout stand, probably due to seasonal flooding.
41	42220 - Natural Jack Pine	High Density Pole	6.5	35	81-110	Jcak Pine stand, with pockets of thick and/or open patches.
42	42290 - Natural Mixed Pine	High Density Log	1.9	80	51-80	Ridge with extra-large Red pine and White pine trees with some poles starting to come up around larger trees. Varitity in size class, small acerage.
43	42210 - Natural Red Pine	High Density Log	4.4	80	1-50	Red pine with new poles coming up under older trees.
44	42220 - Natural Jack Pine	High Density Log	18.0	66	51-80	Jack pine stand, with red pine in clumps on ridges intermixed within. Jack pine is ready to harvest.
45	42210 - Natural Red Pine	High Density Log	2.5	80	1-50	Red pine stand, old logs with new small poles coming in under.
46	42220 - Natural Jack Pine	High Density Pole	3.5	42	51-80	Jack Pine stand, younger/mid-aged.
47	42210 - Natural Red Pine	High Density Pole	2.0	41	51-80	Ridge or younger red pine, small acerage.
50	42210 - Natural Red Pine	High Density Pole	22.0	60	51-80	ridge of red pine, all ages in stand. High BA of poles.
51	42200 - Natural White Pine	High Density Log	3.0	80	1-50	Small ridge with extreamly large White pine and Red pine. All trees are too big for logs, understory full of White pine.
52	42200 - Natural White Pine	High Density Log	11.9	80	1-50	Small ridge with extreamly large White Pine and Red Pine, all too large for logs. Full understory of White Pine.
53	42210 - Natural Red Pine	High Density Pole	1.9	76	111-140	Ridge of Red pine, one age of bigger trees with understory of Red pine coming in thick.
54	42210 - Natural Red Pine	High Density Log	1.9	60	51-80	Small ridge of Pole-to-log sized red pine. Old stumps in areas from over 50 yers ago.
55	42220 - Natural Jack Pine	High Density Pole	2.9	35	1-50	Wind break to US-2, a thin line of trees, 1 to 3 tress thick.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	42220 - Natural Jack Pine	Medium Density Pole	13.5	42	81-110	Pockets of Jack Pine mixed with open areas and patches of lowland Aspen and Tag Alder. Some small ridges contain White Pine and Red Pine.
59	42290 - Natural Mixed Pine	High Density Log	14.0	58	51-80	Red pine ridge with other pine species mixed in. same type of stand as 69.
61	42210 - Natural Red Pine	High Density Log	7.8	78	111-140	Nice Red Pine stand, high BA of logs. Tall, Straight trees.
62	42220 - Natural Jack Pine	High Density Pole	33.2	38	1-50	Jack pine stand with a few clumps of red pine. Short Jack pine and brachy, parts are open grown.
64	429 - Mixed Upland Conifers	Medium Density Log	17.3	58	51-80	Mix Red pine and aspen stand with openings of Tag alder. Ages vary as well as size of trees.
65	42210 - Natural Red Pine	High Density Log	1.1	82	51-80	Small ridge of Red pine with some white pine. trees large in size.
66	42210 - Natural Red Pine	High Density Log	1.0	89	111-140	Red pine ridge real old.
67	42290 - Natural Mixed Pine	High Density Pole	6.4	49	81-110	Mix of Jack Pine and other pine, pockets of Aspen and Black spruce. Jack pine is variable in size.
68	42210 - Natural Red Pine	Medium Density Log	6.3	68	51-80	Red pine mix with low pockets of aspen. Some large white and a few Jack pine.
70	42210 - Natural Red Pine	Medium Density Log	1.0	63	51-80	Red pine ridge with older trees
71	42211 - Natural Red Pine, Mixed Deciduous	High Density Pole	13.4	46	81-110	Red pine with Aspen clones along the edge.
72	42210 - Natural Red Pine	High Density Log	1.2	68	51-80	Red pine ridge, very small in size.
73	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	58.1	40	1-50	Mix of ridges with Red pine and lower areas filled with Aspen. Large branchy aspen, short open grown lowlands.
74	42211 - Natural Red Pine, Mixed Deciduous	High Density Pole	8.4	66	81-110	Red pine ridge with low areas and some Aspen.
75	42210 - Natural Red Pine	High Density Pole	21.9	68	81-110	Red pine stand, pole to log size trees.
76	42290 - Natural Mixed Pine	Medium Density Log	12.1	62	51-80	Mixed stand with some open areas. Jack pine is old and open grown.
77	42210 - Natural Red Pine	High Density Log	1.1	70	51-80	REd pine ridge, small in size surrounded by Tag alder.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
78	6127 - Lowland Pine	High Density Log	7.3	64	81-110	Red pine ridge with log size trees.
79	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	6.5	20	1-50	Lowland drainage with aspen sparsly scattered Jack pine.
80	42210 - Natural Red Pine	High Density Log	12.8	76	81-110	Red Pine stand
81	42210 - Natural Red Pine	High Density Log	1.8	72	81-110	Red pine ridge, small in size.
82	42220 - Natural Jack Pine	High Density Pole	12.7	27	111-140	Young Jack pine with some sparse clumps of Aspen.
83	42210 - Natural Red Pine	Medium Density Log	14.8	74	1-50	Open Red pine with scattered Aspen.
84	42210 - Natural Red Pine	High Density Pole	6.6	74	141-170	Red pine stand very high BA.
85	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	31.1	78	111-140	Larger stand of nicer Red pine with aspen on edges close to low areas.
87	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	18.2	17	111-140	Lowland Aspen stand, young in age mixed with Tag alder and a few scattered Red pine trees. fire within stand, 1983.
88	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	5.1	70	51-80	Red pine stand with aspen which is younger in age.Fire within stand, 1983.
89	42210 - Natural Red Pine	Medium Density Log	4.5	58	1-50	Red pine looks like a recent shelter wood/seed tree harvest. Very few logs with regeneration coming in under the sparse canopy.
90	42210 - Natural Red Pine	High Density Pole	3.7	64	51-80	Red ridge, fringe Aspen. Pole stand. stunted Red pine.
92	42220 - Natural Jack Pine	High Density Log	1.0	69	51-80	Very old Jack pine stand, small island.
94	42210 - Natural Red Pine	Low Density Log	11.0	72	1-50	Red pine ridge, open with tall logs trees and Aspen growing in under.
95	42210 - Natural Red Pine	High Density Log	7.5	80	141-170	Red pine ridge, large log size trees, but many poles of smaller red pine coming in the understory.
96	42210 - Natural Red Pine	High Density Pole	1.0	69	111-140	Densely stocked Red pine stand, between log and pole size. Island in the middle of large wet area.
97	42210 - Natural Red Pine	High Density Log	3.6	72	81-110	REd ridge, large trees.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
98	42210 - Natural Red Pine	High Density Log	3.3	79	141-170	Two aged stand. Old large trees then 35 year old red pine coming in under mother trees.
100	42210 - Natural Red Pine	Medium Density Log	5.5	75	1-50	Ridge of Red pine. older with young Red pine coming in as understory.
101	42210 - Natural Red Pine	Medium Density Log	6.2	68	1-50	Red pine ridge, open with tall trees, between poles and log sized trees. Aspen and Red pine in the understory.
103	42210 - Natural Red Pine	High Density Log	14.6	70	111-140	Red pine pole stand, young in age.
104	42210 - Natural Red Pine	High Density Log	2.1	70	81-110	Red pine ridge, small in size.
105	42210 - Natural Red Pine	High Density Log	1.9	60	51-80	Small Red pine ridge. Two aged stand.
106	42210 - Natural Red Pine	High Density Log	3.3	90	1-50	Red pine ridge with very large trees with red poles as understory.
107	42220 - Natural Jack Pine	High Density Pole	5.5	50	81-110	Jack pine stand 50 years, very dense. Stand along highway.
108	42210 - Natural Red Pine	High Density Log	1.1	60	51-80	Small red pine ridge.
109	42210 - Natural Red Pine	High Density Log	26.4	69	111-140	Red pine stand, tall nice trees.
110	42210 - Natural Red Pine	High Density Log	63.1	60	81-110	Red pine with a few other pine species intermixed. Stand is larger in size. Varablie sizes and ages of trees within stand.
111	42220 - Natural Jack Pine	High Density Pole	9.8	64	81-110	Jack pine stand 4 to 5 sticks, a few scattered Red pine close to log size.
112	42210 - Natural Red Pine	Low Density Log	14.5	81	1-50	Open stand with very spreadout Red pine trees. Subcanopy is Red pine and Aspen coming in full.
114	42210 - Natural Red Pine	Medium Density Log	9.9	66	51-80	Red pine stand of log sized trees, open in some areas while thicker in others. Varying age classes.
115	42210 - Natural Red Pine	High Density Log	10.1	75	81-110	Thick, old Red pine. Tall timber next to highway.
117	42220 - Natural Jack Pine	High Density Pole	8.8	68	81-110	Jack pine with Red pine intermixed. 3 to 4 sticks in the Jack pine.
118	42220 - Natural Jack Pine	High Density Pole	7.1	60	111-140	Jack pine stand, fully stocked 3 to 4 sticks tall.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
119	42210 - Natural Red Pine	High Density Log	2.3	66	51-80	Red pine ridge of log sized red pine. Small acerage, wet along power line to stand.
120	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	34.7	41	1-50	Lowland Aspen with mixed conifers. A few drainages and some higher ridges of pine. Poor quality aspen.
121	42220 - Natural Jack Pine	High Density Pole	4.4	49	81-110	Jck pine stand, thick 3 to 4 stick trees, a few scattered larger Red pine.
122	42220 - Natural Jack Pine	High Density Pole	1.3	52	81-110	Jack pine with scattered Red pine. Small stand with large Jack pine trees 4 to 5 sticks in height.
123	6127 - Lowland Pine	Low Density Log	17.4	85	1-50	A few scattered Pine trees large in size, area full of tag alder and very wet.
124	42210 - Natural Red Pine	High Density Log	10.0	70	51-80	Red pine, older stand with some mixed species coming in below Red pine.
125	42220 - Natural Jack Pine	High Density Log	2.8	70	51-80	Jack pine stand, older trees, small stand.

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
8	6229 - Mixed lowland shrub	19.7	No	Unspecified	Drainage, some aspen, full of tag alder.
13	3105 - Mixed Upland Herbaceous	151.0	No	Low	Open are with grass and very few small trees. Many drainages running through stand.
14	6229 - Mixed lowland shrub	31.5	No	Unspecified	Drainage, some aspen full of Tag alder.
17	3105 - Mixed Upland Herbaceous	294.2	No	Unspecified	Open grassy area, some small scattered trees. Drainages running throughout.
24	3105 - Mixed Upland Herbaceous	93.6	No	Low	Upland stand of grass, very sandy.
35	6229 - Mixed lowland shrub	23.4	No	Unspecified	drainage, surrounded by Tag Alder.
40	11 - Low Intensity Urban	12.2	No	Unspecified	M-28
48	3105 - Mixed Upland Herbaceous	149.1	No	Low	Large upland area, with some very small ridges.
49	710 - Sand, Soil	1.0	No	Unspecified	Sand pit
56	6229 - Mixed lowland shrub	4.4	No	Unspecified	Strip next to the Highway.
57	3102 - Grass	25.7	Yes	Low	Powerline, both low and high areas.
60	6229 - Mixed lowland shrub	25.6	No	Unspecified	
63	6229 - Mixed lowland shrub	384.6	No	Unspecified	
69	50 - Water	1.0	No	Unspecified	Small pond
86	6239 - Mixed Emergent Wetland	29.9	No	Unspecified	Beavor pond/open water with tag alder and a few Pine islands.
91	50 - Water	1.0	No	Unspecified	small pond
93	6229 - Mixed lowland shrub	434.0	No	Unspecified	Tag alder lowlands, with many wet spots.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
99	6229 - Mixed lowland shrub	128.3	No	Unspecified	Tag alder lowlands.
102	6229 - Mixed lowland shrub	16.9	No	Unspecified	
113	6229 - Mixed lowland shrub	5.5	No	Unspecified	Drainage/low area with tag alder.
116	6229 - Mixed lowland shrub	59.8	No	Unspecified	Drainage with tag alder