Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 12
Entry Year 2016
Acreage: 1,456
County Schoolcraft
Management Area: Seney Manistique Swamp

Revision Date: 07/29/2014

Stand Examiner: Bob Tylka

Legal Description:

T45N R16W Sections 4, 9 and 16

Identified Planning Goals:

Timber production and wildlife habitat management

Soil and topography:

Sections 4 & 9 feature flat or gently rolling terrain. These areas support lowland timber on slightly elevated ridges, and are surrounded by a wet marsh complex. To the south, section 16 has somewhat steeper ridges of greater elevation above the marsh. Throughout the compartment, the largest and highest ridges provide upland habitat, but most of this habitat is on islands surrounded by wet lowlands.

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

Hartman's Camp lies in section 9, and a significant amount of private land in sections 9 and 16 is associated with it. There are no other improvements such as powerlines, recreational facilities, etc. within this compartment. The private lands associated with Hartman's Camp have been managed for timber production and are used for hunting.
The state lands have been managed for timber production in conjunction with wildlife plans to maintain a corridor of effective cover for deer migrating south to the Sturgeon Hole Deer Wintering Area.

Unique Natural Features:

The West Branch Manistique River flows through section 16 from northwest to southeast. The river corridor through this area is comprised of wet lowlands.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Fisheries values are fair. The West Branch of the Manistique is a non-trout designated, warm-water tributary. The species community consists of northern pike, smallmouth bass, sucker and minnow species. Encroachment from beaver is not a concern here, but protection from increased sand bedload is a concern. The West Branch is heavily inundated with sand.

Wildlife Habitat Considerations:

Land Office surveyors recorded tamarack, cedar, black spruce, and jack pine as the primary woody species This compartment lies south of M-28 along the Seney Stretch. Wetlands dominate the landscape. White pine, red pine, and black ash were recorded as minor components of the forest cover.

Although the age and structural components have obviously changed, the tree species within this compartment appears quite similar to pre-settlement conditions.

Wildlife habitat objectives include maintaining the hydrological integrity of the marsh complex and providing for age and structural diversity with the conifer forests.

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 Black River Group subcrops below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. Gravel pits are not found in the area and potential appears to be limited There is no commercial oil and gas production in the UP.

Vehicle Access:

The northern boundary of this compartment lies approximately one mile south of Highway M-28, and at present is only accessible via Hartman Camp Road. This is the only drivable road on state lands in the compartment, and provides access to the southern portion by crossing the private lands.

Survey Needs:

Land survey may be needed to facilitate a timber sale in the SW1/4 of section 9.

Recreational Facilities and Opportunities:

The state lands in this compartment have been used for hunting. No other reasonable opportunities exist at this time.

Fire Protection:

Extremely difficult access would hamper fire management efforts in much of this compartment due to the marshy terrain.

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**

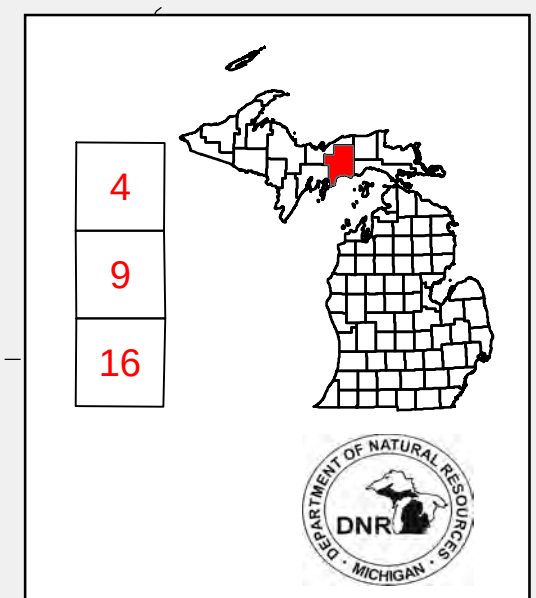
The following information is displayed, where pertinent, on the attached compartment maps:

- **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: 012
T45N R16W
04 09 16
County: Schoolcraft
Unit: Shingleton
Management Area: Seney Manistique Swamp
YOE: 2016
Acres: 1,455 GIS Calculated
Examiner: Bob Tylka
Map Revised: 07/30/2014
Map Phase: Pre-Review

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



Legend
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads

Non-Forest Regeneration
- Natural
- Planted

Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Prescribed Burn
- Treatments w/ Site Condition
- Stream
- Intermittent Stream
- Lakes and Rivers

Forest Stands

LVL3COVER
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- State Forest Land

Hartman Camp Rd
Hickey Creek Truck Trl

1 622-D0
2 6122-S6
3 6126-J6
4 6126-J6
5 6122-S5
6 6121-T6
7 622-L0
8 622-L0
9 6126-J3
10 629-L0
11 6126-J6
12 6121-T5
13 6125-Q6
14 622-L0
15 622-L0
16 622-L0
17 6126-J3
18 6126-J5
19 6126-J5
20 6125-Q5
21 6125-Q6
22 429-MC9
23 6122-S6
24 6126-J6
25 6121-T5
26 6122-S6
27 6117-E5
28 6121-T6
29 4222-J8
30 4229-MC9
31 6121-T9
32 623-N0
33 622-L0
34 629-L0
35 6121-T6
36 6121-T9
37 629-L0
38 6121-T9
39 6127-Q9
40 4229-MC9
41 4229-MC9
42 6121-T6
43 6122-S6
44 623-N0
45 4226-MC9
46 4229-MC9
47 623-N0
48 4221-R9
49 622-D0
50 4221-R9
51 623-N0
52 4229-MC9
53 4229-MC9
54 4229-MC8
55 6132-LM5
56 4221-R9
57 4229-MC9
58 629-L0
59 623-N0
60 6128-Q5
61 622-L0
62 4319-UM5
63 6117-E5
64 6120-C6
65 4229-MC9
66 629-L0

4
9
16

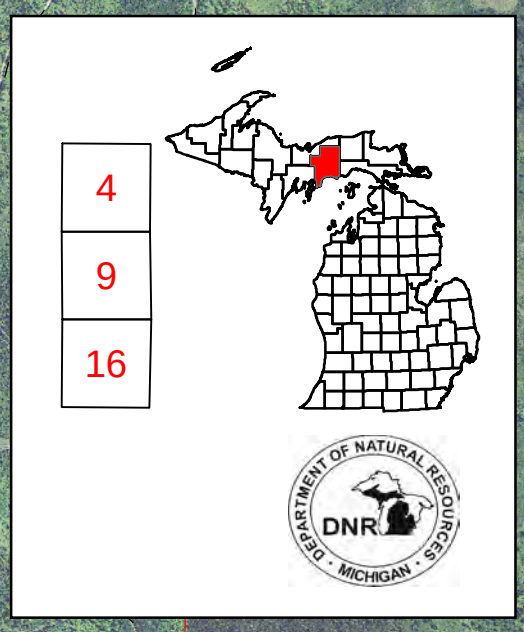
86°21'0"W 86°20'0"W 86°19'0"W 86°18'0"W
46°20'0"N 46°19'0"N 46°18'0"N 46°17'0"N

1 0.5 0 1 Miles

Stand Boundary Map

Compartment: 012
T45N R16W
04 09 16
County: Schoolcraft
Unit: Shingleton
Management Area: Seney Manistique Swamp
YOE: 2016
Acres: 1,455 GIS Calculated
Examiner: Bob Tylka
Map Revised: 07/30/2014
Map Phase: Pre-Review

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



Legend

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- Stand Boundaries

Forest Stands

Level 3

422 - Natural Pines
429 - Mixed Upland Conifers
431 - Upland Mixed Forest
611 - Lowland Deciduous Forest
612 - Lowland Coniferous Forest
613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

622 - Lowland Shrub
623 - Emergent Wetland
629 - Mixed non-forested wetland

Hartman Camp Rd

1 622-D0 | 2 6122-S6 | 3 6126-J6 | 4 6126-J6 | 5 6122-S5 | 6 6121-T6 | 7 622-L0 | 8 622-L0 | 9 6126-J3 | 10 629-L0 | 11 6126-J6 | 12 6121-T5 | 13 6125-Q6 | 14 622-L0 | 15 622-L0 | 16 622-L0 | 17 6126-J3 | 18 6126-J5 | 19 6126-J5 | 20 6125-Q5 | 21 6125-Q6 | 22 429-MC9 | 23 6122-S6 | 24 6126-J6 | 25 6121-T5 | 26 6122-S6 | 27 6117-E5 | 28 6121-T6 | 29 4222-J8 | 30 4229-MC9 | 31 6121-T9 | 32 623-N0 | 33 622-L0 | 34 629-L0 | 35 6121-T6 | 36 6121-T9 | 37 629-L0 | 38 6121-T9 | 40 4229-MC9 | 41 4229-MC9 | 42 6121-T6 | 43 6122-S6 | 44 623-N0 | 45 4226-MC9 | 46 4229-MC9 | 47 623-N0 | 48 4221-R9 | 49 622-D0 | 50 4221-R9 | 51 623-N0 | 52 4229-MC9 | 53 4229-MC9 | 54 4229-MC8 | 55 6132-LM5 | 56 4221-R9 | 57 4229-MC9 | 58 629-L0 | 59 623-N0 | 60 6128-Q5 | 61 622-L0 | 62 4319-UM5 | 63 6117-E5 | 64 6120-C6 | 65 4229-MC9 | 66 629-L0

1 0.5 0 1 Miles

86°21'0"W 86°20'0"W 86°19'0"W 86°18'0"W
46°20'0"N 46°19'0"N 46°18'0"N

Special Conservation Areas & Site Conditions Map

86°21'0"W 86°20'0"W 86°19'0"W 86°18'0"W

46°20'0"N 46°19'0"N 46°18'0"N

1 **622**-D0
2 **6122**-S6
3 **6126**-J6
4 **6126**-J6
5 **6122**-S5
6 **6121**-T6
7 **622**-L0
8 **622**-L0
9 **6126**-J3
10 **629**-L0
11 **6126**-J6
12 **6121**-T5
13 **6125**-Q6
14 **622**-L0
15 **622**-L0
16 **622**-L0
17 **6126**-J3
18 **6126**-J5
19 **6126**-J5
20 **6125**-Q5
21 **6125**-Q6
22 **429**-MC9
23 **6122**-S6
24 **6126**-J6
25 **6121**-T5
26 **6122**-S6
27 **6117**-E5
28 **6121**-T6
29 **4222**-J8
30 **4229**-MC9
31 **6121**-T9
32 **623**-N0
33 **622**-L0
34 **629**-L0
35 **6121**-T6
36 **6121**-T9
37 **629**-L0
38 **6121**-T9
39 **6127**-Q9
40 **4229**-MC9
41 **4229**-MC9
42 **6121**-T6
43 **6122**-S6
44 **623**-N0
45 **4226**-MC9
46 **4229**-MC9
47 **623**-N0
48 **6121**-R9
49 **622**-D0
50 **4221**-R9
51 **623**-N0
52 **4229**-MC9
53 **4229**-MC9
54 **4229**-MC8
55 **6132**-LM5
56 **4221**-R9
57 **4229**-MC9
58 **629**-L0
59 **623**-N0
60 **6128**-Q5
61 **622**-L0
62 **4319**-UM5
63 **6117**-E5
64 C012 #1
65 **4229**-MC9
66 **629**-L0 C012 #2

5C - 004
5C - 003
2G - 005
2H - 008
2H - 002
2H - 009
2H - 010
2H - 011
2H - 012
2H - 013
2H - 014
2H - 015
2H - 016
2H - 017
2H - 018
2A - 007
2H - 019
2A - 006

4 9 16

Legend

- Miris Corners
- Stand Boundaries

Site Condition Available

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

Site Condition Type

Available Factors W/ Constraints

5C: Delay treatment for age/size class diversity or exceptional site quality

Unavailable Factors

2A: Adjacent landowner denied access
2G: Too wet (sensitive soils, does not include access issues)
2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

Reviewable SCAs

- Proposed SCA
- SCA Removal

Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit **Compartment 012 Year of Entry 2016**

Bob Tylka : 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
Cedar	0	0	0	0	0	0	0	0	0	0	0	9	0	0	**9**
Jack Pine	0	0	270	0	0	8	12	0	18	0	0	0	0	0	**308**
Lowland Conifers	0	0	0	0	0	4	0	17	4	3	0	0	0	0	**28**
Lowland Deciduous	0	0	0	0	0	0	0	0	25	0	0	0	0	14	**39**
Lowland Mixed Forest	0	0	0	0	0	0	0	0	67	0	0	0	0	0	**67**
Lowland Shrub	637	0	0	0	0	0	0	0	0	0	0	0	0	0	**637**
Lowland Spruce/Fir	0	0	0	0	0	0	5	5	13	1	0	0	0	0	**24**
Marsh	55	0	0	0	0	0	0	0	0	0	0	0	0	0	**55**
Natural Mixed Pines	0	0	0	0	0	0	0	0	10	0	10	0	0	35	**54**
Red Pine	0	0	0	0	0	0	0	0	0	0	4	0	0	4	**9**
Tamarack	0	0	0	0	0	0	0	27	5	167	0	0	0	0	**199**
Treed Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	**13**
Upland Conifers	0	0	0	0	0	0	0	0	1	0	0	0	0	0	**1**
Upland Mixed Forest	0	0	0	0	0	0	0	0	12	0	0	0	0	0	**12**
Total	**706**	**0**	**270**	**0**	**0**	**12**	**17**	**49**	**154**	**171**	**14**	**9**	**0**	**53**	**1455**

Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2016

Compartment 012
Total Compartment Acres: 1,456

Acres by Treatment Type

Commercial Harvest - 231	Tree Planting - 0	Other - 70
Habitat Cut - 0	Opening Maintenance - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Coniferous Forest	231	0	0	0	0	0	**231**
Total	**231**	**0**	**0**	**0**	**0**	**0**	**231**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	41012002-Cut	4.9	6122 - Black Spruce	High Density Pole	78	81-110	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Specs: CC w/reserves to regenerate spruce and other lowland conifers. Reserve the red & white pine plus any cedar & hemlock if encountered in the stand.

Other Comments:

Next Steps: Burn to stimulate natural regeneration. Monitor in accordance with the work instructions. All conifers plus aspen & birches are acceptable regeneration.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	41012003-Cut	7.8	6126 - Lowland Jack Pine	High Density Pole	64	51-80	Harvest	Clearcut	6126 - Lowland Jack Pine	Cmpt. Review Proposal

Prescription Specs: Clearcut to regenerate a mix of jack pine and other lowland conifers. No red pine, white pine, hemlock or cedar were recorded in the stand data, but these should be reserved if encountered in the stand.

Other Comments: No retention needed due to small stand acreage.

Next Steps: Burn to stimulate natural regeneration. Monitor in accordance with the work instructions. All conifers plus aspen & birches are acceptable regeneration.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	41012004-Cut	4.2	6126 - Lowland Jack Pine	High Density Pole	64	51-80	Harvest	Clearcut	6126 - Lowland Jack Pine	Cmpt. Review Proposal

Prescription Specs: Clearcut to regenerate jack pine and other lowland conifers. No red pine, white pine, hemlock or cedar were recorded in the stand data, but these should be reserved if encountered in the stand.

Other Comments: No retention needed due to small stand acreage.

Next Steps: Burn to stimulate natural regeneration. Monitor in accordance with the work instructions. All conifers plus aspen & birches are acceptable regeneration.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	41012005-Cut	5.0	6122 - Black Spruce	Medium Density Pole	64	51-80	Harvest	Clearcut	6126 - Lowland Jack Pine	Cmpt. Review Proposal

Prescription Specs: Clearcut to regenerate jack pine and other lowland conifers. No red pine, white pine, hemlock or cedar were recorded in the stand data, but these should be reserved if encountered in the stand.

Other Comments: No retention needed due to small stand acreage.

Next Steps: Burn to stimulate natural regeneration. Monitor in accordance with the work instructions. All conifers plus aspen & birches are acceptable regeneration.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	41012006-Cut	4.0	6121 - Tamarack	High Density Pole	90	51-80	Harvest	Clearcut	6121 - Tamarack	Cmpt. Review Proposal

Prescription Specs: Clearcut to regenerate tamarack and other lowland conifers. No red pine, white pine, hemlock or cedar were recorded in the stand data, but these should be reserved if encountered in the stand.

Other Comments: No retention needed due to small stand acreage.

Next Steps: Burn to stimulate natural regeneration. Monitor in accordance with the work instructions. All conifers plus aspen & birches are acceptable regeneration.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	41012012-Cut	153.2	6121 - Tamarack	Medium Density Pole	90	51-80	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves - retain any red & white pine, hemlock and cedar encountered in the stand.

Other Comments:

Next Steps: Burn to stimulate natural regeneration. Monitor in accordance with the work instructions. All conifers plus aspen & birches are acceptable regeneration.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	41012021-Cut	17.1	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	79	81-110	Harvest	Clearcut with Reserves	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal

Prescription Specs: CC with reserves - retain the white pine plus any red pine, hemlock and cedar encountered in the stand.

Other Comments:

Next Steps: Burn to stimulate natural regeneration. Monitor in accordance with the work instructions. All conifers plus aspen & birches are acceptable regeneration.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	41012025-Cut	24.9	6121 - Tamarack	Medium Density Pole	79	51-80	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal

Prescription Specs: CC w/reserves - retain the red & white pine plus any hemlock and cedar encountered in the stand.

Other Comments:

Next Steps: Burn to stimulate natural regeneration. Monitor in accordance with the work instructions. All conifers plus aspen & birches are acceptable regeneration.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	41012028-Cut	2.2	6121 - Tamarack	High Density Pole	90		Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal

Prescription Specs: Under contract TS # 41-015-10-01 Moosetrack Tamarack II

Other Comments:

Next Steps: Natural regeneration - monitor in accordance with the work instructions. Acceptable regen should include all conifers plus aspen and paper birch.

Proposed Start Date: 04/11/2011

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31	41012031-Cut	5.7	6121 - Tamarack	High Density Log	90	51-80	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal

Prescription Specs: CC w/reserves to regenerate spruce and other lowland conifers. Reserve the red pine plus any white pine, cedar & hemlock if encountered in the stand.

Other Comments:

Next Steps: Burn to stimulate natural regeneration. Monitor in accordance with the work instructions. All conifers plus aspen & birches are acceptable regeneration.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42	41012042-Cut	1.6	6121 - Tamarack	High Density Pole	78	51-80	Harvest	Clearcut	6121 - Tamarack	Cmpt. Review Proposal

Prescription Specs: Clearcut - the stand record does not reflect the presence of pine, hemlock or cedar, but these should be reserved if any are encountered in this stand. Retention is not required due to the small acreage of this stand.

Other Comments: Cut with the adjacent timber in Cmp 015 to the east

Next Steps: Natural regeneration - monitor in accordance with the work instructions. All conifers plus aspen & paper birch are acceptable regeneration.

Proposed Start Date: 10/01/2016

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	NF_41012007-Burn	29.6	6229 - Mixed lowland shrub				Prescribed Burn	Unspecified	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal

Prescription Specs: Burn to stimulate natural regeneration of lowland conifers.

Other Comments: Harvested in 2009. Regen survey in 2014 indicates that the area displays heavy slash and lowland brush but very few acceptable tree seedlings.

Next Steps: Natural regen is desirable but seed/plant jack pine as needed to establish fully-stocked stands. Monitor regen in accordance with the work instructions. All conifers, aspen and birches are considered acceptable species.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	NF_41012008-Burn	8.9	6220 - Alder/willow				Prescribed Burn	Unspecified	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal

Prescription Specs: Burn to stimulate natural regeneration of lowland conifers.

Other Comments: Harvested in 2009. Regen survey in 2014 indicates that the area displays heavy slash and lowland brush but very few acceptable tree seedlings.

Next Steps: Natural regen is desirable but seed/plant jack pine as needed to establish fully-stocked stands. Monitor regen in accordance with the work instructions. All conifers, aspen and birches are considered acceptable species.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	NF_41012014-Burn	2.6	6229 - Mixed lowland shrub				Prescribed Burn	Unspecified	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal

Prescription Specs: Burn to stimulate natural regeneration of lowland conifers.

Other Comments: Harvested in 2009. Regen survey in 2014 indicates that the area displays heavy slash and lowland brush but very few acceptable tree seedlings.

Next Steps: Natural regen is desirable but seed/plant jack pine as needed to establish fully-stocked stands. Monitor regen in accordance with the work instructions. All conifers, aspen and birches are considered acceptable species.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	NF_41012015-Burn1	3.3	6229 - Mixed lowland shrub				Prescribed Burn	Unspecified	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal

Prescription Specs: Burn to stimulate natural regeneration of lowland conifers.

Other Comments: Harvested in 2009. Regen survey in 2014 indicates that the area displays heavy slash and lowland brush but very few acceptable tree seedlings.

Next Steps: Natural regen is desirable but seed/plant jack pine as needed to establish fully-stocked stands. Monitor regen in accordance with the work instructions. All conifers, aspen and birches are considered acceptable species.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	NF_41012016-Burn	16.3	6229 - Mixed lowland shrub				Prescribed Burn	Unspecified	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal

Prescription Specs: Burn to stimulate natural regeneration of lowland conifers.

Other Comments: Harvested in 2009. Regen survey in 2014 indicates that the area displays heavy slash and lowland brush but very few acceptable tree seedlings.

Next Steps: Natural regen is desirable but seed/plant jack pine as needed to establish fully-stocked stands. Monitor regen in accordance with the work instructions. All conifers, aspen and birches are considered acceptable species.

Proposed Start Date: 10/25/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	NF_41012033-Burn	9.6	6229 - Mixed lowland shrub				Prescribed Burn	Unspecified	6125 - Lowland Black Spruce, Jack Pine	Cmpt. Review Proposal

Prescription Specs: Burn to stimulate natural regeneration of lowland conifers.

Other Comments: Harvested in 2009. Regen survey in 2014 indicates that the area displays heavy slash and lowland brush but very few acceptable tree seedlings.

Next Steps: Natural regen is desirable but seed/plant jack pine as needed to establish fully-stocked stands. Monitor regen in accordance with the work instructions. All conifers, aspen and birches are considered acceptable species.

Proposed Start Date: 10/25/2014

Total Treatment Acreage Proposed: 301.1

Report 4 -- Treatments Prescribed with a Site Condition

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

Total Treatment Acreage Proposed: **0.0**

Report 5 – Site Conditions

Shingleton Mgt. Unit | **Compartment 012**

Bob Tylka : Examiner | **Year of Entry 2016**

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions No	5C	2H	2G
9	9		**Cedar**	9			
308	297	11	**Jack Pine**	291	7	11	
28	28		**Lowland Conifers**	28			
38	14	24	**Lowland Deciduous**	14			24
67	67		**Lowland Mixed Forest**	67			
24	24		**Lowland Spruce/Fir**	14	10		
54	54		**Natural Mixed Pines**	54			
9	9		**Red Pine**	9			
199	199		**Tamarack**	199			
1	1		**Upland Conifers**	1			
12	12		**Upland Mixed Forest**	12			
749	714	35	Total Forested Acres	697	17	11	24
	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	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	11				
	Comments:						
003	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	10				
	Comments:						

004	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	7	
	Comments:			
005	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	25	
	Comments:			
006	**Not Available**	**2A: Adjacent landowner denied access**	68	
	Comments:			
007	**Not Available**	**2A: Adjacent landowner denied access**	101	
	Comments:			
008	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2	
	Comments:			
009	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2	
	Comments:			

Report 5 – Site Conditions

Shingleton Mgt. Unit

Bob Tylka : Examiner

Compartment 012

Year of Entry 2016

010	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2

Comments:

011	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2

Comments:

012	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	1

Comments:

013	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3

Comments:

014	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3

Comments:

015	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3

Comments:

016	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	1

Comments:

017	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	7

Comments:

018	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3

Comments:

019	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2

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
C012 #1	Potential Old Growth		**SCA Removal**	
Comments				
Does not meet old growth criteria				
C012 #2	Potential Old Growth		**SCA Removal**	
Comments				
Does not meet old growth criteria				

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6122 - Black Spruce	High Density Pole	4.9	78	81-110	Black spruce stand with large white pine scattered throughout, plus a few jack & red pine and tamrack. Ready to cut now - reserve the red & white pine, and hemlock & cedar if any are encountered in the stand.
3	6126 - Lowland Jack Pine	High Density Pole	7.8	64	51-80	More slow-growing jack pine/black spruce - could cut it now or hold it until the tamarack to the west is cut/regenerated.
4	6126 - Lowland Jack Pine	High Density Pole	4.2	64	51-80	Slow-growing jack pine with a few spruce & tamarack. Can cut now or hold while the tamarack to the west is cut/regenerated.
5	6122 - Black Spruce	Medium Density Pole	5.0	64	51-80	Slow-growing, semi-open stand of jack pine/black spruce - could cut now, or hold it until the tamarack to the west is cut/regenerated.
6	6121 - Tamarack	High Density Pole	4.0	90	51-80	Tamarack stand - ready to cut now. Reserve any red & white pine, hemlock and cedar encountered in the stand.
9	6126 - Lowland Jack Pine	High Density Sapling	149.0	25	1-50	Cut in 1989. A few jack pine have now reached merchantable diameters, and the stand is growing well. Spruce and tamarack are more prevalent along the low drainages.
11	6126 - Lowland Jack Pine	High Density Pole	2.3	50	51-80	Not fully mature, but age criteria calls for cutting this stand now. Hold for now while the large tamarack/lowland conifer complex to the west of Hartman Camp Rd. is cut and regenerated, and this also gives the surrounding young jack pine more time to mature.
12	6121 - Tamarack	Medium Density Pole	153.2	90	51-80	Large stand of lowland conifers dominated by tamarack, with pockets of mixed jack pine/black spruce and lowland brush scattered throughout. Some age class diversity due to natural disturbances is becoming evident, and both stand density and site indices vary throughout the stand area. Ready to cut - reserve any red & white pine, hemlock and cedar encountered.
13	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	4.2	50	51-80	Mix of tamarack and jack pine with a few spruce also reaching merchantability.
17	6126 - Lowland Jack Pine	High Density Sapling	121.4	25	1-50	Cut in 1989. A few jack pine have now reached merchantable diameters, and the stand is growing well. Spruce and tamarack are more prevalent along the low drainages.
18	6126 - Lowland Jack Pine	Medium Density Pole	2.0	50	51-80	Semi-open stand of jack pine with tamarck & spruce. The age class criteria suggests cutting at this time, but the timber is somewhat immature; due to the small acreage involved here, it may be better to hold this stand for the time being. The understory is sparse in places.
19	6126 - Lowland Jack Pine	Medium Density Pole	4.0	50	51-80	Slow-growing jack pine with spruce & tamarack mixed in on slightly rolling ground. Although it has reached rotation age it will hold for now if desirable to do so, as the timber does not appear to have reached maturity.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6125 - Lowland Black Spruce, Jack Pine	Medium Density Pole	1.8	88	81-110	Very wet site - probably inoperable. The stand features a mix of tamarck, spruce & jack pine over low shrubs.
21	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	17.1	79	81-110	Mix of mature tamarack and spruce, ready to cut now before the tamarack is hit by the pests that are now killing this species nearby. Consider retaining the white pine.
22	429 - Mixed Upland Conifers	High Density Log	1.2	88	111-140	Raised sandy knob w/ old jack pine and a few spruce/tamarack/red maple
23	6122 - Black Spruce	High Density Pole	10.2	83	81-110	Black spruce - hold for now while the large tamarack/lowland conifer complex to the west of Hartman Camp Rd. is cut and regenerated.
24	6126 - Lowland Jack Pine	High Density Pole	6.7	83	51-80	Lowland jack pine/black spruce stand featuring variable composition and site indices due to slightly rolling terrain. Hold for now while the large tamarack/lowland conifer complex to the west of Hartman Camp Rd. is cut and regenerated.
25	6121 - Tamarack	Medium Density Pole	24.9	79	51-80	Mix of mature tamarack and spruce, ready to cut now before the tamarack is hit by the pests that are now killing this species nearby. Consider retaining the red & white pine.
26	6122 - Black Spruce	High Density Pole	2.6	83	51-80	Black spruce - hold for now while the large tamarack/lowland conifer complex to the west of Hartman Camp Rd. is cut and regenerated.
27	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	24.6	83	51-80	Mix of lowland species on a very wet site. Stand composition & density appear to be highly variable. Lowland brush dominates the understory, and site indices appear to be low but also vary considerably from one spot to the next. The stand age given here is a rough estimate based on adjacent stands, as the variables plus natural disturbances make the selection of any true representative trees or group hard to identify.
28	6121 - Tamarack	High Density Pole	4.1	90		Under contract TS # 41-015-10-01 Moosetrack Tamarack II
29	42220 - Natural Jack Pine	Medium Density Log	11.0	86	51-80	Lowland jack pine - old but inaccessible. The stand sits on a narrow ridge of slightly elevated terrain.
30	42290 - Natural Mixed Pine	High Density Log	15.2	Uneven Age	111-140	Ridge of rolling upland terrain out in the marsh. Red pine is generally dominant with jack pine/spruce found in the lower areas and along the fringes.
31	6121 - Tamarack	High Density Log	5.7	90	51-80	More tamarack with red pine and black spruce, plus scattered aspen and red maple. Ready to cut.
35	6121 - Tamarack	High Density Pole	1.9	86	51-80	Wet site - may be cut with the stands in cmp 15 (YOE 2017) if access is available.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	6121 - Tamarack	High Density Log	1.5	86	51-80	Tamarack on wet ground.
38	6121 - Tamarack	High Density Log	1.7	86	51-80	Island of slightly higher ground supporting a mix of (primarily) tamarack plus jack & red pines and spruce, Site indices appear to vary with slight elevation changes.
39	6127 - Lowland Pine	High Density Log	2.9	90	51-80	Lowland pine with tamarack and a few spruce on slightly rolling terrain. The area is generally too wet to be considered a true upland stand. Due to its age, consideration should be given to the idea of managing this small stand using a shelterwood system.
40	42290 - Natural Mixed Pine	High Density Log	1.8	101	81-110	Knob of sandy, higher ground with large white & red pine, plus a few spruce, etc. Hartman camp Road runs through the stand. Suggest a shelterwood cut to manage for the red & white pine.
41	42290 - Natural Mixed Pine	High Density Log	1.6	Uneven Age	81-110	Elevated knob of red pine with jack pine & black spruce that displays unevenaged characteristics. Access across the marsh is highly questionable.
42	6121 - Tamarack	High Density Pole	1.6	78	51-80	Tamarack that is part of a stand found primarily in Cmp 15 to the east.
43	6122 - Black Spruce	High Density Pole	1.1	94	81-110	Black spruce with scattered tamarack, white pine and deciduous trees.
45	42260 - Natural Pine, Mixed Deciduous	High Density Log	3.4	100	81-110	Island of upland habitat out in the marsh - large red pine and scattered large white pine with pockets of aspen and spruce. Previously identified as an unevenaged stand due to the age and size class variability.
46	42290 - Natural Mixed Pine	High Density Log	2.9	100	81-110	Island of upland habitat out in the marsh - large red pine and scattered large white pine with pockets of aspen and spruce. Previously identified as an unevenaged stand due to the age and size class variability.
48	42210 - Natural Red Pine	High Density Log	3.2	Uneven Age	81-110	Ridge of large red pine surrounded by marshland and seasonally-flooded ponds. Access for management is highly unlikely. The stand has several age classes of red pine present, as there are very large (20"+) diameter logs, 12-14" logs, and scattered 5-7" poles in pockets.
50	42210 - Natural Red Pine	High Density Log	1.2	Uneven Age	81-110	Small island of upland red pine that displays unevenaged characteristics. Access across the marsh appears to be impossible.
52	42290 - Natural Mixed Pine	High Density Log	9.7	88	81-110	
53	42290 - Natural Mixed Pine	High Density Log	2.0	101	111-140	Thinned back in 1990.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	42290 - Natural Mixed Pine	Medium Density Log	7.0	Uneven Age	51-80	Ridge of rolling, slightly elevated ground featuring red & white pine. Access across the marsh would be extremely difficult.
55	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	66.8	88	51-80	Gently rolling terrain that varies from moderately wet to seasonally flooded. The area supports a semi-open mix of lowland hardwoods, various conifers, and lowland brush. Stand density and composition are extremely variable, but generally all the timber appears to be slow-growing. Operability may be questionable in some areas. The age shown here from previous inventory represents the cedar and red maple components, though age variability is certainly present.
56	42210 - Natural Red Pine	High Density Log	4.2	101	81-110	Knob of sandy upland terrain supporting a red pine stand with white pine, red maple & paper birch mixed in. Access across private lands and adjacent lowland timber is an issue.
57	42290 - Natural Mixed Pine	High Density Log	2.5	Uneven Age	81-110	Another knob of rolling ground with red & white pine displaying unevenaged characteristics - no access across the marsh.
60	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	2.2	87		Stand of mixed lowland timber - access is a problem across the marsh
62	4319 - Mixed Upland Forest	Medium Density Pole	12.4	80	51-80	Upland mixed forest - consider managing for pine. This was formerly listed as an unevenaged stand, but an estimate of the age is given here. The larger pine are older.
63	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	14.2	Uneven Age	1-50	Lowland timber on wet ground - operability is questionable due to wet ground and poor volume. The white pine is generally found on slightly elevated ridges.
64	6120 - Lowland Cedar	High Density Pole	9.0	117	111-140	Cedar stand - access is difficult and thewet but rolling terrain would present difficulties.
65	42290 - Natural Mixed Pine	High Density Log	8.2	Uneven Age	81-110	Upland mixed pine. Previously identified as unevenaged - ages shown are rough estimates.

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6224 - Treed Bog	4.4	No	Low	
7	6229 - Mixed lowland shrub	29.6	Natural Regen	Lowland Spruce/Fir	Cut in 2009. Regen survey 6/17/14: 83% of the area is virtually unstocked; the remainder displays an average of about 400 conifer seedlings/acre. The site is currently dominated by a mix of lowland brush spp. and wet grasses, with blueberry on the slightly dryer patches of ground. These sites are notoriously slow to regenerate. Continue to monitor for additional regen to appear. This stand does not currently meet green-up standards.
8	6220 - Alder/willow	8.9	Natural Regen	Jack Pine	Cut in 2009. Regen survey 6-17-14: Over 80% of the area remains virtually unstocked; the rest displays an average of 300 - 400 conifer seedlings/acre. The site is currently dominated by a mix of lowland brush spp. and wet grasses. These sites are notoriously slow to regenerate. Continue to monitor for additional regen to appear. This stand does not currently meet green-up standards.
10	629 - Mixed non-forested wetland	6.3	No	Low	
14	6229 - Mixed lowland shrub	2.6	Natural Regen	Lowland Spruce/Fir	Cut in 2009. Regen survey 6/17/14: 3 plots @ 1/100th acre reveal that 3 of 3 are virtually unstocked. The site is currently dominated by a mix of lowland brush spp. and wet grasses. These sites are notoriously slow to regenerate. Continue to monitor for additional regen to appear. This stand does not currently meet green-up standards.
15	6229 - Mixed lowland shrub	3.3	Natural Regen	Tamarack	Cut in 2009. Regen survey 6/17/14: 3 plots @ 1/100th acre reveal that 3 of 3 are virtually unstocked. The site is currently dominated by a mix of lowland brush spp. and wet grasses. These sites are notoriously slow to regenerate. Continue to monitor for additional regen to appear. This stand does not currently meet green-up standards.
16	6229 - Mixed lowland shrub	16.3	Natural Regen	Lowland Spruce/Fir	Cut in 2009. Regen survey 6/17/14: About two-thirds of the area is poorly stocked, displaying an average of about 100 conifer seedlings per acre; the rest is stocked with about 450 conifer seedlings/acre. The site is currently dominated by a mix of lowland brush spp. and wet grasses, with blueberry on the slightly dryer patches of ground. These sites are notoriously slow to regenerate. Continue to monitor for additional regen to appear. This stand does not currently meet green-up standards.
32	6233 - Wet Meadow	1.2	No	Low	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
33	6229 - Mixed lowland shrub	9.6	Natural Regen	Lowland Conifers	Cut in 2009. Regen survey 6/17/14: About two-thirds of the area is virtually unstocked; the rest is fully stocked with an average of about 650 conifer seedlings/acre. Most of the site is currently dominated by a mix of lowland brush spp. and wet grasses. These sites are notoriously slow to regenerate, Continue to monitor for additional regen to appear. This stand does not currently meet green-up standards.
34	629 - Mixed non-forested wetland	383.3	No	Low	
37	629 - Mixed non-forested wetland	64.7	No	Low	
44	6239 - Mixed Emergent Wetland	4.9	No	Low	
47	6239 - Mixed Emergent Wetland	3.0	No	Low	
49	6224 - Treed Bog	8.3	No	Low	
51	6239 - Mixed Emergent Wetland	40.5	No	Low	
58	629 - Mixed non-forested wetland	77.4	No	Low	
59	6239 - Mixed Emergent Wetland	5.8	No	Low	
61	6223 - Inundated Shrub Swamp	11.5	No	Low	
66	629 - Mixed non-forested wetland	23.7	No	Low	