Shingleton Forest Management Unit
Compartment Review Presentation
Compartment #45 Entry Year: 2012
Compartment Acreage: 3324 County: Schoolcraft

Revision Date: 9/23/2010

Stand Examiner: Bob Burnham

Legal Description: T42N R16W Sections 4,5,8,9,16 & 21

Identified Planning Goals ('Management Area' or 'RMU',if applicable): The compartment lies within the Seney Manistique Swamp Management Area.

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

Soil and Topography: The soils in this compartment are predominantly peat soils associated with the large marsh complexes with scattered sand ridges mixed throughout. The topography is rolling.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is almost entirely State owned. There are a few private parcels on the north which have hunting camps. A 40 acre parcel in section 5 was acquired through the Forest legacy Program. The Rainey Wildlife Viewing area is located in the southeast corner of the compartment.

Unique, Natural Features: Merlin (*Falco colomborius*, state threatened) and bald eagle (*Haliaeetus leucocephalus*, state threatened) are known to nest nearby and there is potential for these raptors to occur within this compartment. There is also potential for nesting northern goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of red pine and white pine. Wood turtle (*Clemmys insculpta*, state special concern) could occur in and along Smith Creek. More detailed information and Species Abstract are available on the web at http://web4.canr.msu.edu/mnfi/

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: The Rainey Wildlife Area is within Section 21 and is a designated SCA. In addition, this same area is also a Deer Wintering Area SCA.

Watershed and Fisheries Considerations: Smith Creek is classified SQWW. There is no need to protect Smith Creek from encroachment by beaver, but protection from increased sand bedload is still a high priority.

Wildlife Habitat Considerations: This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. Growing season in this area is generally less than 100 days. The winter extreme low temperature is -46^{o} F and the average annual snowfall is approximately 100 inches. Presettlement vegetation included marshes and swamps on the extensive lowlands and jack pine, red pine, and big-toothed aspen on the uplands. Wildfire was the prominent natural disturbance for this area. However, windthrow and beaver ponding were also factors. The vast majority of this compartment has been clearcut in the past 10 years resulting in an expansive openland. In the short term, this open area will provide suitable habitat for

openland species such as sharp-tailed grouse, bluebirds, and kestrels. As the forest regenerates, chestnut-sided warblers, brown thrashers, and snowshoe hares will find suitable habitat. Kirtland's warblers have been documented several miles north of this compartment. The potential exists that this species will also become active in this compartment in the next ten years. Bald eagles and merlin have been documented in the vicinity. Other wildlife species of interest known to utilize this compartment include gray wolf, moose, white-tailed deer, spruce grouse, fisher, mink, and various waterfowl.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is between 10 and 50 feet of glacial drift. The Ordovician Queenston and Silurian Manitoulin, Cabothead and Burnt Bluff subcrop below the glacial drift. The Burnt Bluff is used for stone. The nearest gravel pit is 3 miles to the northeast. There is limited gravel potential on State lands.

Vehicle Access: There is good access to the Rainey Wildlife Area off M-94 via Dawson Road and Wawaushnosh drive. The remainder of the compartment however has poor access which is from the north and very long. Due to private gates only the northern most portion of the compartment can be driven. The eastern side was closed after a large Timbersale 10 years ago and has healed very nicely. The western side is used mostly by the private landowners on 4 wheelers.

Survey Needs: The west quarter corner in section 5 is needed for sale preparation.

Recreational Facilities and Opportunities: There is a viewing platform at the Rainey Wildlife Area, there is a short pathway leading from the parking area to the platform. Due to its remote location the compartment offers some remote hunting opportunities.

Fire Protection: Fire response to the bulk of the compartment is from the north and quite long, the roads within the compartment are very grown over so they would need to be opened up to get equipment in. There are very few mature stands within the compartment that would pose an increased fire hazard.

Additional Compartment Information: Text

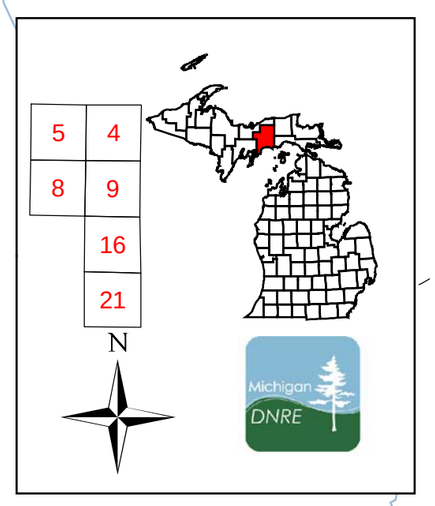
- **The following reports from the Inventory are attached:**
  - **Total Acres by Cover Type and Age Class**
  - **Proposed Treatment Summary**
  - **Proposed Treatments – No Limiting Factors**
  - **Proposed Treatments – With Limiting Factors**
  - **Stand Details (Forested and Nonforested)**
  - **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - **Base feature information, stand boundaries, cover types, and numbers**
  - **Proposed treatments**
  - **Details on the road access system**

Cover Type & Treatment Map

Compartment 45
T42N, R16W, Sec. 4, 5, 8, 9, 16, 21
County: Schoolcraft
Unit: Shingleton
YOE: 2012
Acres: 4,455 GIS Calculated
Stand Examiner: Robert Burnham
Map Revised: 9/29/2010
Map Phase: Pre-Review

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



Michigan DNRE

1 2 429 -MC5
2 6122-S5
3 622-L0
4 4222-J1
5 622-D0
6 6126-J2
7 622-D0
8 6122-S6
9 622-L0
10 4222-J6
11 6122-S6
12 622-D0
13 622-L0
14 4222-J3
15 4222-J5
16 4222-J6
17 4222-J6
18 6122-S5
19 6128-Q6
20 4232-F3
21 6122-S4
22 4222-J3
23 622-L0
24 6122-S5
25 6122-S1
26 622-D0
27 6129-Q6
28 4234-F6
29 622-L0
30 6122-S5
31 6117-E9
32 622-D0
33 6122-S3
34 6126-J5
35 6122-S5
36 6122-S6
37 4229-MC3
38 4229-MC2
39 4222-J3
40 4222-J2
41 6122-S4
42 429 -MC3
43 4220-W9
44 6126-J1
45 4220-W9
46 623-N0
47 4222-J3
48 6126-J2
49 500-Z0
50 4222-J2
51 6117-E4
52 622-L0
53 4222-J3
54 6122-S6
55 6122-S5
56 623-N0
57 6122-S6
58 6122-S6
59 4222-J6
60 6122-S5
61 429 -MC2
62 623-N0
63 622-D0
64 429 -MC2
65 4229-MC3
66 4233-F2
67 4229-MC2
68 4229-MC9
69 6122-S6
70 4229-MC9
71 4222-J3
72 4222-J3
73 622-L0
74 6126-J2
75 4229-MC2
76 4222-J2
77 4229-MC2
78 622-L0
79 4222-J3
80 429 -MC2
81 622-L0
82 6122-S4
83 6121-T5
84 6122-S4
85 4222-J2
86 4229-MC2
87 622-L0
88 429 -MC2
89 4222-J2
90 4222-J2
91 500-Z0
92 4229-MC2
93 429 -MC3
94 6126-J2
95 429 -MC2
96 6122-S6
97 500-Z0
98 6122-S6
99 622-L0
101 623-N0
102 6120-C6
103 6131-LM6

Legend

- Miris Corners
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)

Forest Stands
Level 3
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands
Level 3
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

1 0.5 0 1 Miles

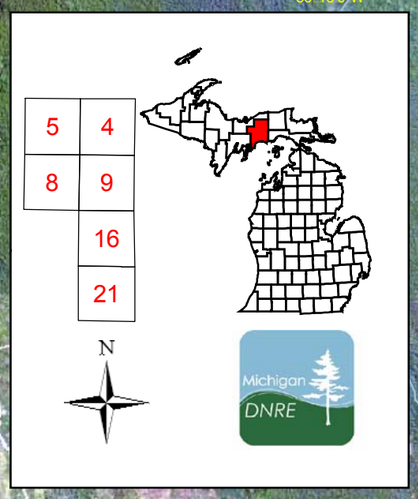
Drainage Ditch
Smith Creek Truck Tr
Barnhart Lake
Indian Lake
Smith Slough
Woodruff Lake
Greenbox Rd
Freeman Rd
Beckman Rd
Blanford Rd
Wawaushnosh Dr
Fisette Rd
Country Club Dr
Dawson Rd
Unknown

46°5'0"N
46°4'0"N
46°3'0"N
46°2'0"N
46°1'0"N
86°21'0"W
86°20'0"W
86°19'0"W
86°18'0"W
86°17'0"W

Stand Boundary Map

Compartment 45
T42N, R16W, Sec. 4, 5, 8, 9, 16, 21
County: Schoolcraft
Unit: Shingleton
YOE: 2012
Acres: 4,455 GIS Calculated
Stand Examiner: Robert Burnham
Map Revised: 9/29/2010
Map Phase: Pre-Review

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



Legend

- Miris Corners
- Remonumented Section Corners
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Stand Boundaries

Forest Stands
- Level 3
  - 422 - Natural Pines
  - 423 - Other Upland Conifers
  - 429 - Mixed Upland Conifers
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest

Non-Forest Stands
- Level 3
  - 330 - Low-Density Trees
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland

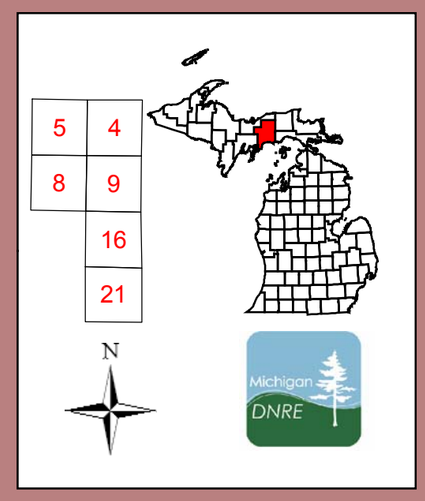
Smith Creek Truck Trl
Barnhart Lake
Indian Lake
Smith Slough
Wawbuskinash Dr
Rapids Rd

1 0.5 0 1 Miles

Dedicated & Proposed Special Conservation Area Map

Compartment 45
T42N, R16W, Sec. 4, 5, 8, 9, 16, 21
County: Schoolcraft
Unit: Shingleton
YOE: 2012
Acres: 4,455 GIS Calculated
Stand Examiner: Robert Burnham
Map Revised: 9/29/2010
Map Phase: Pre-Review

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



Legend

- Miris Corners
- Remonumented Section Corners

Proposed Special Conservation Areas
- SCA - Special Conservation Area
- SCA Removal

Dedicated Special Conservation Areas
- Deer Wintering Areas
- Visual Management Areas
- Stand Boundaries

Forest Stands
- Level 3
  - 422 - Natural Pines
  - 423 - Other Upland Conifers
  - 429 - Mixed Upland Conifers
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest

Non-Forest Stands
- Level 3
  - 330 - Low-Density Trees
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland

1 2 **429** -MC5
1 **6122**-S5
2 **429** -MC5
3 **4222**-J1
4 **330**-U0
5 **6126**-J2
6 **622**-L0
7 **330**-U0
8 **6122**-S6
9 **622**-L0
10 **4222**-J6
11 **6122**-S6
12 **330**-U0
13 **622**-L0
14 **4222**-J3
15 **4222**-J5
16 **4222**-J6
17 **4222**-J6
18 **6122**-S5
19 **6128**-Q6
20 **4232**-F3
21 **6122**-S4
22 **4222**-J3
23 **622**-L0
24 **6122**-S5
25 **6122**-S1
26 **330**-U0
27 **6129**-Q6
28 **4234**-F6
29 **622**-L0
30 **6122**-S5
31 **6117**-E9
32 **330**-U0
33 **6122**-S3
34 **6126**-J5
35 **6122**-S5
36 **6122**-S6
37 **4229**-MC3
38 **4229**-MC2
39 **4222**-J3
40 **4222**-J2
41 **6122**-S4
42 **429** -MC3
43 **4220**-W9
44 **6126**-J1
45 **4220**-W9
46 **623**-N0
47 **4222**-J3
48 **6126**-J2
49 **500**-Z0
50 **4222**-J2
51 **6117**-E4
52 **622**-L0
53 **4222**-J3
54 **6122**-S6
55 **6122**-S5
56 **623**-N0
57 **429** -MC6
58 **429** -MC6
59 **4222**-J6
60 **6122**-S5
61 **429** -MC2
62 **623**-N0
63 **330**-U0
64 **429** -MC2
65 **4229**-MC3
66 **4233**-F2
67 **4229**-MC2
68 **4229**-MC9
69 **6122**-S6
70 **4229**-MC9
71 **4222**-J3
72 **4222**-J3
73 **622**-L0
74 **6126**-J2
75 **4229**-MC2
76 **4222**-J2
77 **4229**-MC2
78 **622**-L0
79 **4222**-J3
80 **429** -MC2
81 **622**-L0
82 **6122**-S4
83 **6121**-T5
84 **6122**-S4
85 **4222**-J2
86 **4229**-MC2
87 **622**-L0
88 **429** -MC2
89 **4222**-J2
90 **4222**-J2
91 **500**-Z0
92 **4229**-MC2
93 **429** -MC3
94 **6126**-J2
95 **429** -MC2
96 **6122**-S6
97 **500**-Z0
98 **6122**-S6
99 **622**-L0
101 **623**-N0
102 **6120**-C6
6131-LM6

5 4 8 9 16 21

1 0.5 0 1 Miles

86°22'0"W 86°21'0"W 86°20'0"W 86°19'0"W 86°18'0"W
46°5'0"N 46°4'0"N 46°3'0"N 46°2'0"N 46°1'0"N

Table 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit **Compartment 045 Year of Entry 2012**

Data updated before 2:00 PM

Age Class

	Non-Forested	1-9	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	17	0	0	0	**17**
Jack Pine	0	205	121	304	14	12	0	4	5	0	0	0	0	0	0	**665**
Lowland Conifers	0	0	0	0	0	0	0	0	17	26	0	0	0	0	0	**44**
Lowland Deciduous	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	**43**
Lowland Mixed Forest	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	**21**
Lowland Shrub	1426	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1426**
Lowland Spruce/Fir	0	3	8	0	0	0	0	14	82	66	45	0	0	0	0	**218**
Marsh	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**113**
Natural Mixed Pines	0	241	5	12	0	0	0	0	0	10	0	0	0	0	0	**267**
Tamarack	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	**4**
Treed Bog	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**55**
Upland Conifers	0	30	122	3	0	0	0	0	67	0	0	0	0	0	0	**221**
Upland Spruce/Fir	0	0	0	53	0	0	0	0	7	0	0	0	0	0	0	**60**
Water	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**51**
White Pine	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	**12**
Total	**1646**	**478**	**255**	**373**	**14**	**12**	**0**	**39**	**178**	**149**	**45**	**29**	**0**	**0**	**0**	**3218**

Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Shingleton Mgt. Unit
Year of Entry 2012

Compartment 045
Total Compartment Acres: 3218

Acres by Treatment Type

Commercial Harvest - 167	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 4	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Jack Pine	4	0	0	0	0	0	**4**
Lowland Spruce/Fir	78	0	0	0	0	0	**78**
Natural Mixed Pines	0	0	10	0	0	0	**10**
Upland Conifers	67	0	0	0	0	0	**67**
White Pine	0	0	0	0	12	0	**12**
Total	**149**	**0**	**10**	**0**	**12**	**0**	**171**

Table 3 -- Treatments Prescribed with No Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	41045001-Cut	12.6	6122 - Black Spruce	Medium Density Pole	75	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal

Prescription Specs: Stand is sparse in areas but much of the spruce is mature and needs to be cut. Harvest stand and leave retention along edge, excluding with paint line.

Other Comments:

Next Steps: No follow up site prep will occur so long as a mix of the current species regenetate.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	41045002-Cut	66.6	429 - Mixed Upland Conifers	Medium Density Pole	74	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal

Prescription Specs: Jack pine is over-mature, clear-cut stand, leave some retention patches, exclude with paint line.

Other Comments: Include stand to the north in 2013 compartment

Next Steps: Regenerate jack pine using acceptable practices including, scarification, trenching and planting. The lowland areas can regenerate to a mix of the current species. The upland portions should be jack pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	41045015-Cut	4.3	42220 - Natural Jack Pine	Medium Density Pole	62	Harvest	Clearcut	Natural Jack Pine	Cmpt. Review Proposal

Prescription Specs: Only retention will be a few trees along east edge.

Other Comments:

Next Steps: Regenerate jack pine using acceptable practices including, scarification, trenching and planting. The lowland areas can regenerate to a mix of the current species. The upland portions should be jack pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	41045043-Cut	1.3	42200 - Natural White Pine	High Density Log	102	Harvest	Crown Thinning	Natural White Pine	Cmpt. Review Proposal

Prescription Specs: Stand is already on Contract, Smoking Gun. Scheduled for thinning. 38-08 Unit 4

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45	41045045-Cut	11.0	42200 - Natural White Pine	High Density Log	106	Harvest	Crown Thinning	Natural White Pine	Cmpt. Review Proposal

Prescription Specs: Stand is already on contract Smoking Gun Sale 38-08 Unit 4 Thinning

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54	41045054-Cut	31.2	6122 - Black Spruce	High Density Pole	80	Harvest	Clearcut with Reserves	Black Spruce	Cmpt. Review Proposal

Prescription Specs: Clear-cut stand leave retention in patches possibly near edges, excluded by paint line.

Other Comments:

Next Steps: Regenerate jack pine using acceptable practices including, scarification, trenching and planting. The lowland areas can regenerate to a mix of the current species. The upland portions should be jack pine.

Table 3 -- Treatments Prescribed with No Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
57	**41045057-Cut**	6.7	429 - Mixed Upland Conifers	High Density Pole	86	Harvest	Clearcut with Reserves	Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Stand is a small mature island which is accessed via a small marsh crossing, only retention will be a few scattered red and white pine.

Other Comments:

Next Steps: Due to the stand being an isolated island no follow up action will occur so long as stand regenerates to a mix of the current species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
58	**41045058-Cut**	27.7	429 - Mixed Upland Conifers	High Density Pole	90	Harvest	Clearcut with Reserves	Mixed Upland Forest	Cmpt. Review Proposal

Prescription Specs: Leave some super-canopy red and white pine as well as small diameter white pine. Buffer pond as appropriate. Retention can be buffer and exclusions.

Other Comments:

Next Steps: Regenerate the upland portions of the stand using acceptable practices including, scarification, trenching and planting. The lowland areas can regenerate to a mix of the current species. The upland portions should be also be a mix of the current species mainly jack pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
68	**41045068-Cut**	5.3	42290 - Natural Mixed Pine	High Density Log	84	Harvest	Seed Tree with Reserves	Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Stand will be accessed via a marsh crossing, stand has some char on the eastern edge. Cut should be a shelterwood seed cut leaving pine over 24 inches

Other Comments:

Next Steps: Due to the stand being an isolated island, there will not be any follow up treatment so long as a mix of the current species regerates.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
70	**41045070-Cut**	4.2	42290 - Natural Mixed Pine	High Density Log	84	Harvest	Seed Tree with Reserves	Planted Mixed Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Stand will be accessed via a marsh crossing, Cut should be a shelterwood seed cut leaving pine over 24 inches

Other Comments:

Next Steps: Due to the stand being an isolated island, there will not be any follow up treatment so long as a mix of the current species regerates.

Total Treatment Acreage Proposed: 170.9

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						

Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: **0**

Data updated before 2:00 PM

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2012

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41039_OutOfY OE-Cut	14.6				Harvest	Clearcut with Reserves	Natural Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Cut all trees except hemlock and oak. Leave a few red pine and white pine for seed.

Other Comments: Access to this stand will involve the installation of a temporary bridge. This could be built and placed by the logger west of this stand. Winter havest may be needed. Survey work may be needed. There is a creek / drainage located in southern part of stand, it runs east/west. Buffer 50 feet. Buffer Smith creek 100 feet. These will be the retention areas. East edge of stand has some cedar. Cedar can be cut, but sale boundary should exclude the very dense patches.

Next Steps: Plant red pine on ridges to maintain component. Low ground should regenerate to mixed species. Acceptable management objectives includes any species mixture currently found onsite.

41049_OutOfY OE-Cut	15.3				Harvest	Single Tree Selection	Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Cut all species except red pine ,oak, white pine, and hemlock. Red pine and white pine should be marked. Create regeneration holes where available and thin thicker areas of poles.

Other Comments: See MNFI comments. Winter harvest will be needed due to road conditions into treatment area. Buffer on Walsh Ditch should be placed at the bottom of spoils. Protect existing red pine and white pine regeneration.

Next Steps: Natural regeneration of red pine, jack pine, and white pine is acceptable. Plant red pine if regeneration fails.

41088_OutOfY OE-Cut	2.3				Harvest	Shelterwood	Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Mark red pine and white pine to 50 sq. ft. basal area to thicken crowns and prepare for regeneration harvest next year of entry. Cut all other species except hemlock and oak.

Other Comments: Set up treatment as soon as it is approved at compartment review in order to combine it into one timbersale with Comparment 88, stand 43. No additional retention, small stand.

Next Steps: Evaluate stand next year of entry for possible regeneration havest. Try to maintain management objective of natural red pine.

41118_OutOfY OE_1-Cut	8.6				Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal

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:

41179_OutOfY OE-Cut	4.2				Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Cut to 80 SF using selection system. Release crop trees using the complete marker as a guide, mark for best tree in place. This stand has some species variation across it, thin to improve diversity favor retention of mesic confers. In areas of beech use beach bark marking guidelines. Place gaps in areas of less shade tolerant species. Cut aspen clones for aspen regeneration. Leave some single aspen trees where possible for soft snags.

Other Comments: Acceptable regeneration is a mix of hardwood species including Sugar maple, Red maple, Basswood, Black Cherry, Yellow Birch, Aspen, White Birch, Hemlock and White Pine

Next Steps:

Total Treatment Acreage Proposed: **45.1**

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6122 - Black Spruce	Medium Density Pole	12.6	75		
2	429 - Mixed Upland Conifers	Medium Density Pole	66.6	74		
3	42220 - Natural Jack Pine	Low Density Sapling	6.8	23		
5	6126 - Lowland Jack Pine	Medium Density	6.4	25		
8	6122 - Black Spruce	High Density Pole	1.6	73		
10	42220 - Natural Jack Pine	High Density Pole	14.0	33		
11	6122 - Black Spruce	High Density Pole	1.4	74		
14	42220 - Natural Jack Pine	High Density Sapling	44.8	23		
15	42220 - Natural Jack Pine	Medium Density Pole	4.3	62		
16	42220 - Natural Jack Pine	High Density Pole	5.9	45		
17	42220 - Natural Jack Pine	High Density Pole	6.1	43		
18	6122 - Black Spruce	Medium Density Pole	13.7	72		
19	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	17.4	74		
20	42320 - Upland Spruce	High Density Sapling	48.5	23		
21	6122 - Black Spruce	Low Density Pole	5.7	67		
22	42220 - Natural Jack Pine	High Density Sapling	20.0	25		
24	6122 - Black Spruce	Medium Density Pole	6.0	71		
25	6122 - Black Spruce	Low Density Sapling	7.9	14		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	6129 - Mixed Coniferous Lowland Forest	High Density Pole	26.5	85		
28	42340 - Upland Spruce/Fir	High Density Pole	7.2	75		
30	6122 - Black Spruce	Medium Density Pole	3.1	76		
31	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	32.4	86		Stand is a riparian area for Smith Creek.
33	6122 - Black Spruce	High Density Sapling	2.6	9		
34	6126 - Lowland Jack Pine	Medium Density Pole	4.6	75		Stand is lowland jack pine and black spruce, small diameter which was left as retention from previous large cuts.
35	6122 - Black Spruce	Medium Density Pole	5.5	77		
36	6122 - Black Spruce	High Density Pole	2.1	80		
37	42290 - Natural Mixed Pine	High Density Sapling	13.7	9		
38	42290 - Natural Mixed Pine	Medium Density	63.3	9		
39	42220 - Natural Jack Pine	High Density Sapling	127.8	23		
40	42220 - Natural Jack Pine	Medium Density	12.7	9		
41	6122 - Black Spruce	Low Density Pole	14.0	74		
42	429 - Mixed Upland Conifers	High Density Sapling	5.0	9		
43	42200 - Natural White Pine	High Density Log	1.3	102		
44	6126 - Lowland Jack Pine	Low Density Sapling	40.3	23		
45	42200 - Natural White Pine	High Density Log	11.0	106		
47	42220 - Natural Jack Pine	High Density Sapling	5.5	22		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	6126 - Lowland Jack Pine	Medium Density	19.3	9		
50	42220 - Natural Jack Pine	Medium Density	3.2	9		
51	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	10.6	86		Riparian area with low stocking of maple and spruce.
53	42220 - Natural Jack Pine	High Density Sapling	5.8	22		
54	6122 - Black Spruce	High Density Pole	31.2	80		
55	6122 - Black Spruce	Medium Density Pole	6.0	78		Stand was left as retention from larger adjacent cuts, diameter and size peter to the west, soils better to the east. Stand is small and jack pine is dying.
57	6122 - Black Spruce	High Density Pole	6.7	86		
58	6122 - Black Spruce	High Density Pole	27.7	90		
59	42220 - Natural Jack Pine	High Density Pole	7.2	23		
60	6122 - Black Spruce	Medium Density Pole	8.2	69		
61	429 - Mixed Upland Conifers	Medium Density	10.1	11		
64	429 - Mixed Upland Conifers	Medium Density	62.7	14		
65	42290 - Natural Mixed Pine	High Density Sapling	12.5	22		
66	42330 - Upland Fir	Medium Density	4.3	20		
67	42290 - Natural Mixed Pine	Medium Density	27.0	9		
68	42290 - Natural Mixed Pine	High Density Log	5.3	84		
69	6122 - Black Spruce	High Density Pole	3.6	86		Stand is a narrow buffer left from previous large cuts as retention.
70	42290 - Natural Mixed Pine	High Density Log	4.2	84		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	42220 - Natural Jack Pine	High Density Sapling	24.2	14		Mics Ridges Sale, good regen, there is a small area of mature jack Pine that was left un-cut near the center of the stand. Illegal blind near near the old roadbed.
72	42220 - Natural Jack Pine	High Density Sapling	96.4	14		Mic's Ridges sale, good regen. No real sub-canopy since everything is in the canopy. Traces of white birch
74	6126 - Lowland Jack Pine	Medium Density	40.0	20		
75	42290 - Natural Mixed Pine	Medium Density	4.5	14		
76	42220 - Natural Jack Pine	Medium Density	5.6	9		
77	42290 - Natural Mixed Pine	Medium Density	5.8	9		
79	42220 - Natural Jack Pine	High Density Sapling	145.8	9		
80	429 - Mixed Upland Conifers	Medium Density	2.8	20		
82	6122 - Black Spruce	Low Density Pole	10.6	77		
83	6121 - Tamarack	Medium Density Pole	4.1	83		
84	6122 - Black Spruce	Low Density Pole	7.7	77		
85	42220 - Natural Jack Pine	Medium Density	3.9	9		
86	42290 - Natural Mixed Pine	Medium Density	45.8	9		
88	429 - Mixed Upland Conifers	Medium Density	2.9	9		
89	42220 - Natural Jack Pine	Medium Density	2.5	9		
90	42220 - Natural Jack Pine	Medium Density	4.5	9		
92	42290 - Natural Mixed Pine	Medium Density	85.2	9		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
93	429 - Mixed Upland Conifers	High Density Sapling	49.0	14		Mics Ridges sale, 2 aged stand. Mostly upland, red pine and white pine overstory 75 years old. Ttrace amounts of hemlock, paper birch, cedar, beech and big tooth aspen.
94	6126 - Lowland Jack Pine	Medium Density	7.7	9		
95	429 - Mixed Upland Conifers	Medium Density	22.0	9		
96	6122 - Black Spruce	High Density Pole	22.7	85		
98	6122 - Black Spruce	High Density Pole	17.0	90		Mature Stand Subtle ridge of pine on east side Directly accross from Rainey Platform
102	6120 - Lowland Cedar	High Density Pole	17.0	104		
103	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	20.7	62		Rainey Wildlife Area

Stand	Cover Type	Acres	Gen Cmts:
4	6224 - Treed Bog	18.9	
6	622 - Lowland Shrub	40.8	
7	6224 - Treed Bog	3.1	
9	622 - Lowland Shrub	9.6	
12	6224 - Treed Bog	7.3	
13	622 - Lowland Shrub	1.5	
23	622 - Lowland Shrub	18.2	
26	6224 - Treed Bog	10.9	
29	622 - Lowland Shrub	1.9	
32	6224 - Treed Bog	11.4	
46	623 - Emergent Wetland	1.3	
49	50 - Water	6.5	
52	622 - Lowland Shrub	3.1	
56	623 - Emergent Wetland	2.8	
62	623 - Emergent Wetland	105.8	
63	6224 - Treed Bog	3.5	
73	622 - Lowland Shrub	24.5	
78	622 - Lowland Shrub	66.5	

Stand	Cover Type	Acres	Gen Cmts:
81	622 - Lowland Shrub	1257.6	
87	622 - Lowland Shrub	1.1	
91	50 - Water	23.4	
97	50 - Water	21.6	
99	622 - Lowland Shrub	1.4	
101	623 - Emergent Wetland	3.3	

7 – 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.

Data updated before 2:00 PM

Stand	SCA Type	SCA Name	Acres	Comments

8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Data updated before 2:00 PM

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	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.