Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 72
Entry Year 2016
Acreage: 1,551
County Schoolcraft
Management Area: Seney Manistique Swamp

Revision Date: 04/15/2014

Stand Examiner: Tom Burnis

Legal Description:

T42N R15W Sections 2,11 & 14

Identified Planning Goals:

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

Soil and topography:

Specific soils information is very limited within this compartment, however it is currently being re-mapped by the Soil Survey. In general, the soils are very well drained sandy soils. The terrain in the area is flat to rolling. The majority of the compartment lies within the Stutts Creek Sands Manistique Sloughs/Muskeg Land Type Association (LTA) however, the northeastern portion of the compartment lies in the Manistique Sloughs/Muskeg LTA.

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

Ownership within the compartment is mostly contiguous blocks of State land, there is some private fragmentation but the majority of this land is inaccessible and used very little. The private land is either forest or marsh and it is currently either undeveloped or has hunting camps on it.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Fair. The West Branch of the Manistique River and Manistique River are classified as non-trout waters. The fisheries community consists of walleye, smallmouth bass, northern pike, sunfish, yellow perch, sucker spp., and minnow spp. Concerns center on protecting from increased sand bedload.

Wildlife Habitat Considerations:

Wildlife featured species: Beaver, moose, ruffed grouse, sharp-tailed grouse, snowshoe hare and deer. This compartment lies northeast east of Manistique and contains the confluence between the West Branch and the Manistique Rivers. The landscape within this compartment is dominated by marsh and ridge complex. The first land surveyors found a composite of open marshes, lowland conifer stands and slightly higher deciduous forests. The circa 1850 conifer forest consisted of cedar white pine, jack pine, tamarack, and black spruce. Areas of slightly higher elevation supported sugar maple, hemlock, beech, oak, elm, and yellow birch. Current lowland forest contains a higher proportion of black spruce and jack pine. Uplands have shifted to a forest system more dominated by red maples and white birches.

Mineral Resource and Development Concerns and/or Restrictions

Sections 2, 11 & 14, T42N-R15W, Schoolcraft County
Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 0 and 10 feet. The Silurian Manitoulin Dolomite and Cabothead Shale subcrop below the glacial drift. The Manitoulin could be used for stone. The nearest gravel pit is located just to the south, but potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

Vehicular access to the majority of the compartment is non-existent with the exception of Section 2, which is the end of

Cal's Drive. The Letson Road is approximately ½ mile to the east but the portion of road between Cal's Drive and the Letson Road is closed. However, this stretch of road has been used in the past for winter access for timbersales.

Survey Needs:

Recreational Facilities and Opportunities:

There are no recreational facilities within the compartment, the area does offer some secluded hunting opportunities due to the lack of roads in the compartment.

Fire Protection:

Response times to fires within the compartment will be relatively slow due to its location. Fire operations will be extremely difficult on the west side of the West Branch of the Manistique River due to the lack of roads, the number of creeks present and the predominant lowland types.

Additional Compartment Information:

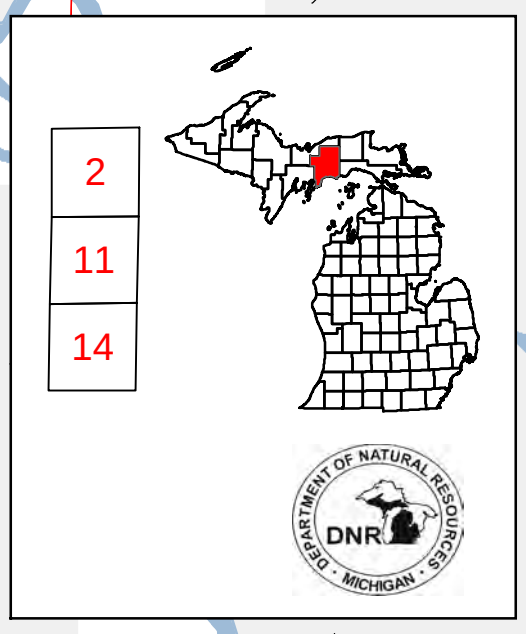
The following reports from the Inventory are attached:

- **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: 072
T42N R15W
01 02 11 12 13 14
T43N R15W
35 36
County: Schoolcraft
Unit: Shingleton
Management Area: Seney Manistique Swamp
YOE: 2016
Acres: 1,551 GIS Calculated
Examiner: Tom Burnis
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
- State Forest Land

Non-Forest Regeneration

Planned Regeneration
- Natural
- Planted
- Treatments w/ Site Condition

Treatments
- Selection (Group, Single Tree)

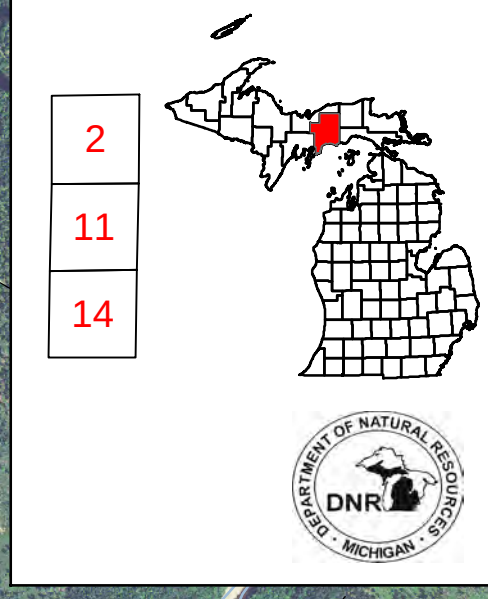
Forest Stands
Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands
Level 3
- 500 - Water
- 623 - Emergent Wetland
- 710 - Sand, Soil

1 0.5 0 1 Miles

Clemons Lake
West Branch Manistique River
Klegstads Slough
Manistique River

Stand Boundary Map



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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
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Lakes and Rivers
- Stand Boundaries

Forest Stands

Level 3

411 - Northern Hardwood
413 - Aspen Types
419 - Mixed Upland Deciduous
422 - Natural Pines
423 - Other Upland Conifers
611 - Lowland Deciduous Forest
612 - Lowland Coniferous Forest
613 - Lowland Mixed Forest

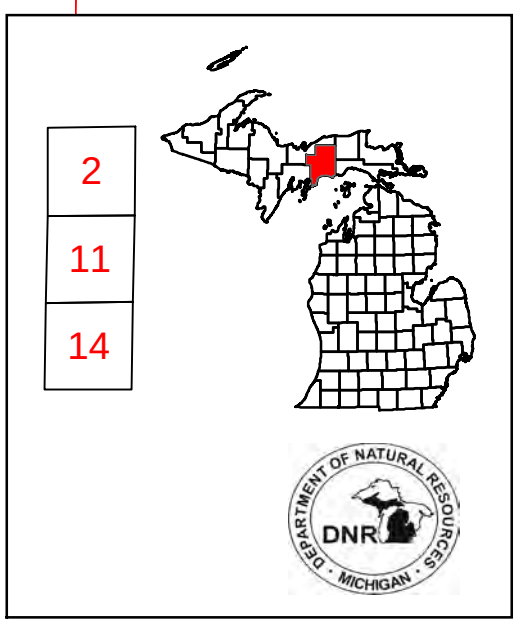
Non-Forest Stands

Level 3

500 - Water
623 - Emergent Wetland
710 - Sand, Soil

1 0.5 0 1 Miles

Special Conservation Areas & Site Conditions Map



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Level 3 Level 4 OI Code
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Legend
- Miris Corners
- Stand Boundaries

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

Site Condition Type

Unavailable Factors
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)

1 0.5 0 1 Miles

86°9'0"W 86°8'0"W 86°7'0"W
46°5'0"N 46°4'0"N 46°3'0"N 46°2'0"N

Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit **Compartment 072 Year of Entry 2016**

Tom Burnis : 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	0	0	0	0	9	0	0	0	0	0	0	0	0	**9**
Cedar	0	0	0	0	0	0	0	0	0	11	0	0	0	0	**11**
Jack Pine	0	155	0	0	0	26	0	29	0	0	0	0	0	0	**210**
Lowland Conifers	0	0	0	0	0	0	0	0	0	20	0	9	0	0	**29**
Lowland Deciduous	0	8	0	0	0	0	0	174	75	0	0	0	0	0	**258**
Lowland Mixed Forest	0	0	0	0	0	0	0	21	0	0	0	0	0	0	**21**
Lowland Spruce/Fir	0	18	0	0	0	10	0	0	216	0	0	0	0	0	**245**
Marsh	227	0	0	0	0	0	0	0	0	0	0	0	0	0	**227**
Mixed Upland Deciduous	0	0	0	0	0	0	0	33	0	0	0	0	0	0	**33**
Northern Hardwood	0	0	0	0	0	0	0	18	108	0	0	0	0	0	**126**
Red Pine	0	0	0	0	0	0	0	18	0	0	0	0	0	0	**18**
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
Tamarack	0	0	0	0	142	0	0	0	0	0	0	12	0	0	**154**
Upland Spruce/Fir	0	0	0	0	16	0	0	20	0	0	0	0	0	0	**36**
Water	126	0	0	0	0	0	0	0	0	0	0	0	0	0	**126**
White Pine	0	0	0	0	0	49	0	0	0	0	0	0	0	0	**49**
Total	**354**	**180**	**0**	**0**	**159**	**94**	**0**	**313**	**400**	**31**	**0**	**21**	**0**	**0**	**1551**

Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2016

Compartment 072
Total Compartment Acres: 1,551

Acres by Treatment Type

Commercial Harvest - 53	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	9	0	0	0	0	0	**9**
Natural Pines	29	0	0	0	0	0	**29**
Northern Hardwood	0	14	0	0	0	0	**14**
Total	**39**	**14**	**0**	**0**	**0**	**0**	**53**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	41072003-Cut	14.3	4112 - Maple, Beech, Cherry Association	High Density Log	75	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Mark stand to cut reducing BA to 80 sqft. Cut stand in winter.

Other Comments: Avoid operations through any drainages or ox-bows that may exist. Apply 50 foot buffer to river. Buffer strip will be retention area.

Stand within state game fund lands.
Northern Hardwood (without conifer). This harvest will regenerate young deciduous species, creating excellent food availability for snowshoe hare.

Next Steps: Monitor the success of regeneration next treatment period. Acceptable regen mix of current species.

Proposed Start Date: 10/27/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	41072005-Cut	6.6	4132 - Aspen, Jack Pine	High Density Pole	51		Harvest	Clearcut with Reserves	4132 - Aspen, Jack Pine	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Mark red and white pine to cut. Cut all other trees. Cut all aspen, hardwood and birch that are 2" DBH.

Other Comments: This harvest will regenerate young, highly stocked aspen creating excellent food availability for snowshoe hare. Conifers, primarily balsam fir and spruce, will be regenerated to provide escape cover within the stand.

Part of boneyard remainder sale. Number 41-032-10-01

Next Steps: Monitor for success of regeneration. Acceptable regeneration mix of current species.

Proposed Start Date: 08/23/2011

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	41072008-Cut	2.8	4132 - Aspen, Jack Pine	High Density Pole	51		Harvest	Clearcut	4132 - Aspen, Jack Pine	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Clearcut. Also cut all hardwood trees 2"DBH.

Other Comments: This harvest will regenerate young, highly stocked aspen creating excellent food availability for snowshoe hare. Conifers, primarily balsam fir and spruce, will be regenerated to provide escape cover within the stand. Part of Boneyard Remainder Sale. Number 41-032-10-01

Next Steps: Monitor for success of regeneration. Acceptable regeneration mix of current species.

Proposed Start Date: 08/23/2011

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11	41072011-Cut	29.3	42220 - Natural Jack Pine	High Density Pole	78		Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Mark red and white pine to cut. Cut all other trees except oak and hemlock.

Other Comments: This harvest will serve to create young (5-25 year old), high density jack pine which is a preferred cover type of snowshoe hare. Regenerating hardwood browse within the plantation, especially black cherry, will bolster food availability within the stand. This prescription will strive to balance jack pine age classes within the MA and create a temporary opening, within a mosaic of opening/plantation habitat, which will benefit sharp-tailed grouse and other open-land dependent species. Part of Boneyard remainder sale. Number 41-032-10-01

Next Steps: Regenerate jackpine using acceptable methods.

Proposed Start Date: 08/23/2011

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

Total Treatment Acreage Proposed: 53.2

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 072**

Tom Burnis : Examiner | **Year of Entry 2016**

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions No	3J	2H
9	9		**Aspen**	9		
11	11		**Cedar**	11		
209	192	18	**Jack Pine**	192		18
29	3	26	**Lowland Conifers**	3	20	6
257	82	175	**Lowland Deciduous**	82		175
21	21		**Lowland Mixed Forest**	21		
245	28	216	**Lowland Spruce/Fir**	28		216
33		33	**Mixed Upland Deciduous**			33
125	18	107	**Northern Hardwood**	18		107
18	18		**Red Pine**	18		
154	140	14	**Tamarack**	140		14
36		36	**Upland Spruce/Fir**			36
49		49	**White Pine**			49
1,196	523	674	Total Forested Acres	523	20	654
	44%	56%	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)**	200				
	Comments:						
003	**Not Available**	**3J: Water quality / BMPs (stream, river, or lake)**	20	2G: Too wet (sensitive soils, does not include access issues)			
	Comments: Low stocking of trees growing in tag alder.						

004	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	23	

Comments:

007	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	172	

Comments:

008	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	69	

Comments:

011	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	75	

Comments:

013	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	104	

Comments:

020	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	12

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
SCA#2	Other SCA		**SCA Removal**	
Comments				
Most of low ground is 6-7" spruce needing more growth.				
SCA#1	Potential Old Growth		**SCA Removal**	
Comments				
Potential Old Growth				

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.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4112 - Maple, Beech, Cherry Association	High Density Log	17.5	75	111-140	Stand should be selectively cut if feasable to do so given the remote location and small acreage.
4	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	3.3	114		
5	4132 - Aspen, Jack Pine	High Density Pole	6.6	51		[9/10/10 BB] Stand is on proposal, 41-032-10 Boneyard Remainder, Units 5. Retention is as described, residual red pine = 6 sq ft and white pine 6 sq ft. Proposal 24-06 was abolished and stands were added to the sale to the north to make a large enough sale to resolve access issues due to failed drainage structure and long haul. FTP W41-1289 was already submitted and approved for aspen TSI , however because inmate labor has recently been lost a 2" spec has been added to this stand, if effective this FTP will be cancelled. (3/22/11 AP) FTP W41-1289 has been cancelled.
7	42220 - Natural Jack Pine	High Density Pole	19.6	53		Stand is mostly upland pine with the edges being lower and black spruce. Ridge of red pine logs located in center of stand.
8	4132 - Aspen, Jack Pine	High Density Pole	2.8	51		[9/10/10 BB] Stand is on proposal, 41-032-10 Boneyard Remainder, Units 6. Retention is as described, Proposal 24-06 was abolished and stands were added to the sale to the north to make a large enough sale to resolve access issues due to failed drainage structure and long haul. FTP W41-1289 was already submitted and approved for aspen TSI , however because inmate labor has recently been lost a 2" spec has been added to this stand, if effective this FTP will be cancelled. (3/22/11 AP) FTP W41-1289 has been cancelled.
9	6129 - Mixed Coniferous Lowland Forest	High Density Log	6.1	114		
10	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	75.3	80		Mix of forest types. Mostly red maple with pockets of cedar, hemlock and fir. Stand can be very wet with many drainages and ox-bows. The conifer types exist around lower areas but are too small and numerous to type out. Some areas of pure white birch also exist. The birch is dying and the red maple logs are of poor quality. Alder and fir throughout understory.
11	42220 - Natural Jack Pine	High Density Pole	29.3	78		[9/10/10 BB] Stand is on proposal, 41-032-10 Boneyard Remainder, Units 4. Retention is as described, residual red pine = 6 sq ft and white pine 1 sq ft. Proposal 24-06 was abolished and stands were added to the sale to the north to make a large enough sale to resolve access issues due to failed drainage structure and long haul. FTP C41-1290 was already submitted and approved for jack pine regeneration.
14	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	21.4	70	81-110	Diverse wildlife corridor along river. Stand contains many drainages to river.
15	6122 - Black Spruce	High Density Sapling	1.0	50		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	6122 - Black Spruce	High Density Pole	18.2	87		This stand like most on the compartments west side has strong evidence of bieng once a large white pine stand based on the intact old stumps. Looks like maybe intense fires caused some areas to be more sterile than others. There are subtle elevation changes where low ground is black spruce and high ground is pine, either jack, red or white.
17	6122 - Black Spruce	High Density Sapling	3.8	50		
18	42220 - Natural Jack Pine	High Density Sapling	27.3	13		West Branch Reserves Sale 53-96, stand was cut in 1999, 3 acres scarified only because of high stumps. Stand had a regen count in the summer of 2003, revealing 1183 tpa. (280 JP, 125 RP, 218 aspen, 405 BSp, 93 wp) . Seems to look like a J3 to the naked eye but will call S3 by counts. Stand was previously J6 before cut with a J objective. Close FTP, C41-765.
19	6126 - Lowland Jack Pine	High Density Sapling	40.4	12		Stand was cut in winter 2000. Stand was never scarified. There is about 20' of Red Pine Logs on west edge. There is also some sub-merchantable spruce on the fringes of the L types that were not cut with the sale. Stand was counted in summer 2003, revealing 440 tpa. Jack Pine component constituted 66% of volume when cut with only 16% bieng spruce, counts revealed no jack pine and 67% spruce. There is quite a bit of browse damage to the Jack Pine during field exam, the previous MO was jack pine. Close the current FTP, C41-765 and write a new one for planting due to changes in stand numbers. [8/5/05 BB] Kept the current FTP open since stand 4 was the only stand in need of further regeneration activities, which is planting. (5/22/06AP) Stand 4 was planted with jack pine using inmates in spring of 2006. Inmates planted the higher ground in areas with low jack pine stocking. Spruce is regenerating in the lower ground. 8,500 jack pine were planted. CLOSE FTP C41-765
20	6122 - Black Spruce	High Density Pole	18.0	82		
21	6122 - Black Spruce	High Density Pole	5.2	82		
22	6122 - Black Spruce	High Density Sapling	2.9	12		Stand was cut from winters 1998-2001, never scarified. Stand was counted in summer of 2003 revealing 666 tpa (168 Jp, 175 Rp, 297 Bsp, & 26 Rmaple) Stand was previously Jack Pine with a J objective, the stand may continue to seed in and eventually convert back to a J type. The original Jack Pine component constituted 70% of volume when cut with only 16% bieng spruce, counts revealed 25% jack pine and 45% spruce.Since the stand previously had a jack pine MO, stand should be treated. The stand could be scheduled for inmate planting to fill in any low stocked areas or totally planted. Cancel FTP C41-765 and write new one. There is also some residual small diameter spruce that was left uncut on the fringes of the L types. These were left uncut due to diameter. Cultural work was dopped at the review by the TMS's request.
23	6122 - Black Spruce	High Density Pole	5.7	50		Manage with stands 2 and 4 in comp 71.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	42330 - Upland Fir	High Density Pole	16.1	41	51-80	Stand was once a white birch stand, but birch is dying and falling out. Converting to fir.
26	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	7.7	12		PART OF COOKSON BRIDGE SALE, SELECTIVELY MARKED (West Branch Reserves Sale) Stand was cut in multiple winters between 1997-2001. Lots of red maple sprouts (not browsed). Regen all over the board but lots coming back none the less. Residual Pine still seeding in, the stand also has a lot of water drainages to creek. [2/25/14] Stand converting to lowland hardwood and spruce. Residual red pine dead or dying due to high water table.
27	42200 - Natural White Pine	High Density Pole	48.8	53	81-110	Found evidence of old building foundations, bottles and cans clay jugs.
28	6122 - Black Spruce	High Density Pole	17.6	82		New stand added.
30	6122 - Black Spruce	High Density Sapling	14.8	12		Stand was cut in winter 2000. Stand was never scarified. There is some sub-merchantable spruce on the fringes of the L types that were not cut with the sale. Stand was counted in summer 2003, revealing 440 tpa. Jack Pine component constituted 66% of volume when cut with only 16% bieng spruce, counts revealed no jack pine and 67% spruce. There is quite a bit of browse damage to the Jack Pine during field exam, the previous MO was jack pine. Close the current FTP, C41-765 and write a new one for planting due to changes in stand numbers. Cultural work was dopped at the review by the TMS's request.
34	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	20.0	93		
35	6121 - Tamarack	Medium Density	142.4	43		Evidence of large pine harvested in the past throughout stand. Tamarack and spruce very slow growing and stressed due to high water table. Alder mixed throughout area. Age estimated from age of adjacent stands which also contain large pine stumps that appear to have been cut at the same time.
36	42220 - Natural Jack Pine	High Density Sapling	86.8	12		Stand was cut from winters 1998-2001, never scarified. Stand was counted in summer of 2003 revealing 666 tpa (168 Jp, 175 Rp, 297 Bsp, & 26 Rmaple) Stand was previously Jack Pine with a J objective, the stand may continue to seed in and eventually convert back to a J type. The original Jack Pine component constituted 70% of volume when cut with only 16% bieng spruce, counts revealed 25% jack pine and 45% spruce.Since the stand previously had a jack pine MO, stand should be treated. The stand could be scheduled for inmate planting to fill in any low stocked areas or totally planted. Cancel FTP C41-765 and write new one. There is also some residual small diameter spruce that was left uncut on the fringes of the L types. These were left uncut due to diameter. Cultural work was dopped at the review by the TMS's request.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	42210 - Natural Red Pine	High Density Log	1.6	72	111-140	SELECTIVELY MARKED PART OF COOKSON BRIDGE SALE (West Branch Reserves sale cut winter 2001) [2/25/14] Not much for regeneration. Stand should be clearcut and replated.
40	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	74.8	72	51-80	Stand regenerating on its own. Advanced fir and red maple in understory. Larger trees in stand are poor quality and falling apart. Could do an overstory removal but the stands location makes it very tough to get to. Also, the stand contains many drainages and low spots leading to the river. The proximty of this stand to the river makes it a valuable riparian zone to leave it alone.
41	6126 - Lowland Jack Pine	Medium Density Pole	6.0	50		
43	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	11.3	72		
45	6122 - Black Spruce	High Density Pole	90.5	82		There is a tamarack strip running through the center of the stand.
46	42210 - Natural Red Pine	High Density Log	16.0	72	111-140	SELECTIVELY MARKED PART OF COOKSON BRIDGE SALE (West Branch Reserves sale cut winter 2001) [2/25/14] Not much for regeneration. Stand should be clearcut and replanted if feasable to get to. Many of the trees are of pole quality.
49	6120 - Lowland Cedar	High Density Pole	10.6	94		
50	42340 - Upland Spruce/Fir	High Density Pole	19.6	72		
51	6122 - Black Spruce	High Density Pole	66.8	82		There are some higher knobs in stand with poorly stocked spruce/pine. Most of low ground is 6-7" spruce
53	6113 - Lowland Maple	High Density Pole	29.2	74	51-80	Maintain as river buffer.
55	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	21.4	70		New stand added. No improvements have been made to the camp on the south end of this satnd.
56	6121 - Tamarack	High Density Pole	12.0	118		
58	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	34.0	72		
59	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	36.4	72		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
62	4115 - Y.Birch, Hemlock NH	High Density Log	38.9	80		
64	4115 - Y.Birch, Hemlock NH	High Density Log	69.1	80		

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	50 - Water	2.2	Unspecified	Unspecified	
2	710 - Sand, Soil	0.9	Unspecified	Unspecified	
6	50 - Water	2.5	Unspecified	Unspecified	
12	50 - Water	3.8	Unspecified	Unspecified	
13	50 - Water	2.1	Unspecified	Unspecified	
25	50 - Water	3.7	Unspecified	Unspecified	
29	623 - Emergent Wetland	121.4	Unspecified	Unspecified	
31	50 - Water	2.1	Unspecified	Unspecified	
32	50 - Water	53.2	Unspecified	Unspecified	
33	50 - Water	3.1	Unspecified	Unspecified	
37	50 - Water	6.7	Unspecified	Unspecified	
39	623 - Emergent Wetland	2.1	Unspecified	Unspecified	
42	623 - Emergent Wetland	4.0	Unspecified	Unspecified	
44	50 - Water	1.1	Unspecified	Unspecified	
47	50 - Water	1.1	Unspecified	Unspecified	
48	50 - Water	12.0	Unspecified	Unspecified	
52	50 - Water	2.1	Unspecified	Unspecified	
54	623 - Emergent Wetland	99.3	Unspecified	Unspecified	

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
57	50 - Water	2.0	Unspecified	Unspecified	
60	50 - Water	2.1	Unspecified	Unspecified	
61	50 - Water	7.7	Unspecified	Unspecified	
63	50 - Water	9.7	Unspecified	Unspecified	
65	50 - Water	8.6	Unspecified	Unspecified	