



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 62

Entry Year 2016

Acreage: 1,617

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 04/10/2014

Stand Examiner: Sheila Clark

Legal Description:

T43N R14W Sections 28-30

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 compartment lies within the Manistique Sloughs/Muskeg Land Type Association (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, including corporate land 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:

No special management designations or considerations.

Watershed and Fisheries Considerations:

Fisheries Values Fair. Duck Creek, Little Duck Creek, and the Manistique River are non-trout waters. Species such as walleye, sunfish, and lake sturgeon inhabits the area. Protection from addition sand to the river channel is a high priority.

Wildlife Habitat Considerations:

This compartment lies north of Manistique and is bounded on the east by the Manistique River. Duck Creek, Little Duck Creek, and the Walsh Ditch each traverse this compartment. Early surveyor notes show that the western 2/3rds of this compartment was dominated by open marsh with small pocket of jack pine, white pine, aspen tamarack and spruce. The eastern portion of the compartment contained forested lowlands consisting of cedar, spruce, white pine, red pine, and elm. Uplands close to the Manistique River supported northern hardwoods with a mixture of hemlock, red maple, and yellow birch.

Current forests in the eastern and central portions of the compartment appear to be fairly similar to those found in pre-settlement days. However, in the western portion of the compartment the Walsh Ditch appears to have altered the hydrology substantially resulting in a significant change in land cover. The western 1/2 of section 30, which historically was open marsh, is now mature jack pine.

Wildlife habitat objectives in this compartment include providing managing jack pine in a manner similar to natural disturbance regimes, protecting the integrity of the remaining intact marsh complex, and providing travel corridors along the various creek and river systems.

The featured species in this management area are beaver, moose, ruffed grouse, sharp-tailed grouse, snowshoe hare and deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is up to 10 feet or insufficient data to determine the glacial drift thickness. The Silurian Manitoulin Dolomite subgroups below the glacial drift. The Manitoulin is quarried for stone. The nearest gravel pit is 1.5 miles to the south, but potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

There are 3 Department Roads within the compartment, the Highwater Truck Trail, Letson Road and Duck Creek Road. Road access on the east side of the compartment is decent but the west side is very limited. Although there are several old closed/ abandoned roads that can be re-opened for harvesting activities.

Survey Needs:

Will need survey to harvest stand 39 located in T43N R14W Section 29 NENE.

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. The Highwater Truck Trail is a Snowmobile Trail being the southern east west link. The piece of state land just opposite the Cookson Bridge in an adjacent compartment in Section 28 is a popular canoe portage.

Fire Protection:

Response times to fires within the compartment will be relatively slow due to its location. Fire operations will be challenging in some areas due to the lack of roads and the number of creeks present. The compartment is comprised mainly of jack pine in varying age classes which could potentially lead to some larger fires due response times, location and this volatile fuel type given the proper weather conditions.

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**

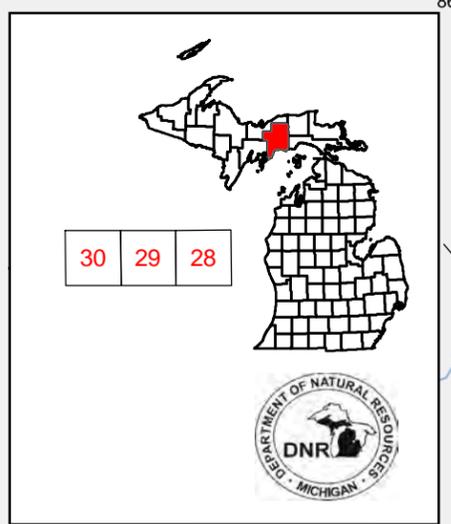
The following information is displayed, where pertinent, on the attached compartment maps:

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

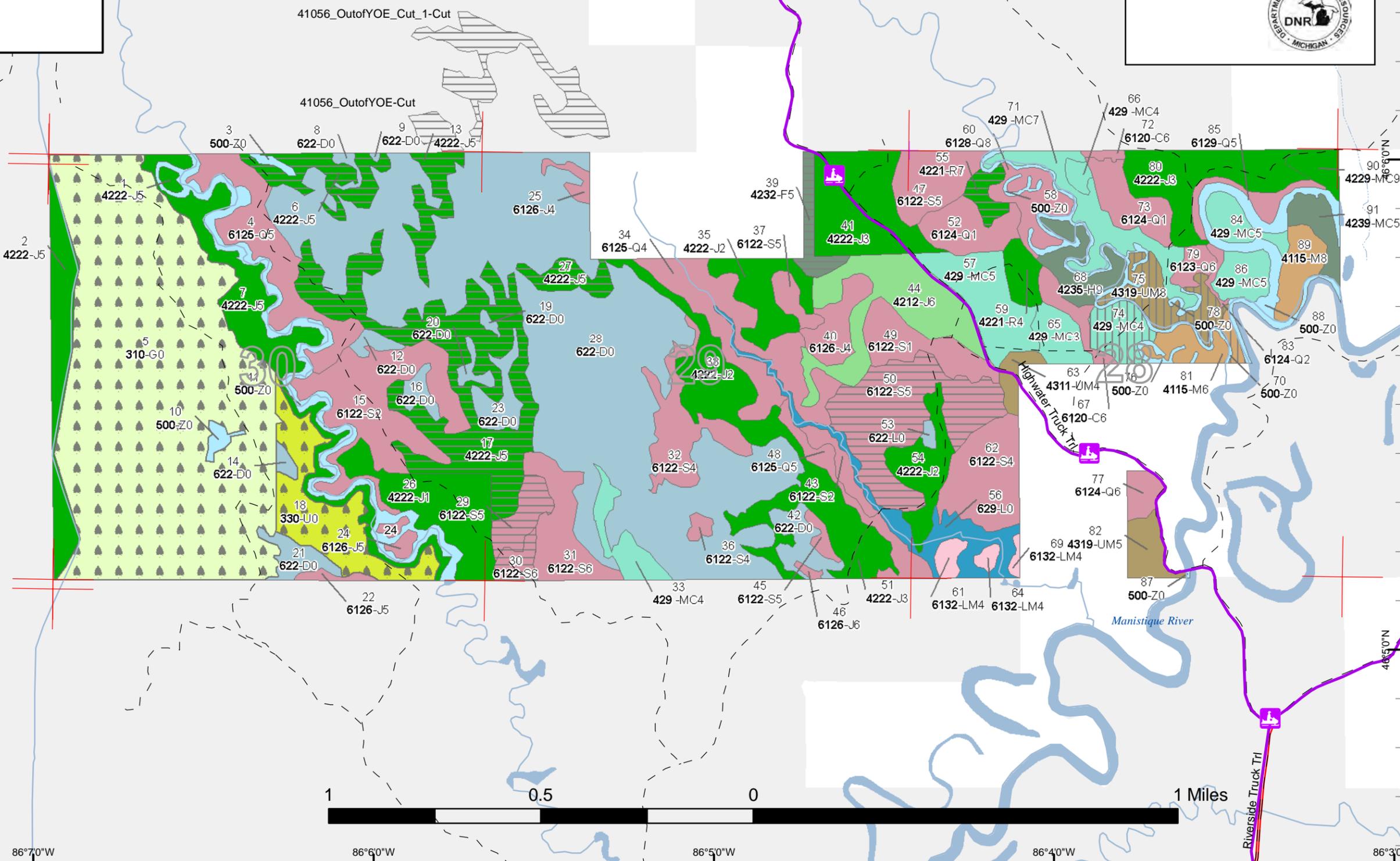
Compartment: 062
 T43N R14W
 28 29 30
 County: Schoolcraft
 Unit: Shingleton
 Management Area: Seney Manistique Swamp
 YOE: 2016
 Acres: 1,617 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 07/30/2014
 Map Phase: Pre-Review

Cover Type & Treatment Map

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



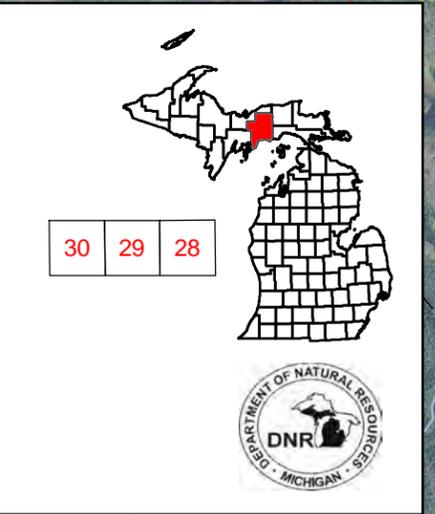
- Legend**
- Miris Corners
 - Snowmobile Trails
 - Snowmobile Trail
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - State Forest Land
- Non-Forest Regeneration**
- Natural
 - Planted
- Planned Regeneration**
- Shelter Wood (w/Reserves)
 - Clearcut (w/Reserves, Patch/Strip)
 - Treatments w/ Site Condition
- Treatments**
- Stream
 - Intermittent Stream
 - Lakes and Rivers
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 629 - Mixed non-forested wetland



Compartment: 062
 T43N R14W
 28 29 30
 County: Schoolcraft
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Stand Boundary Map

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



Legend

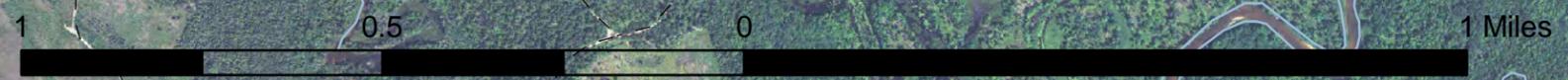
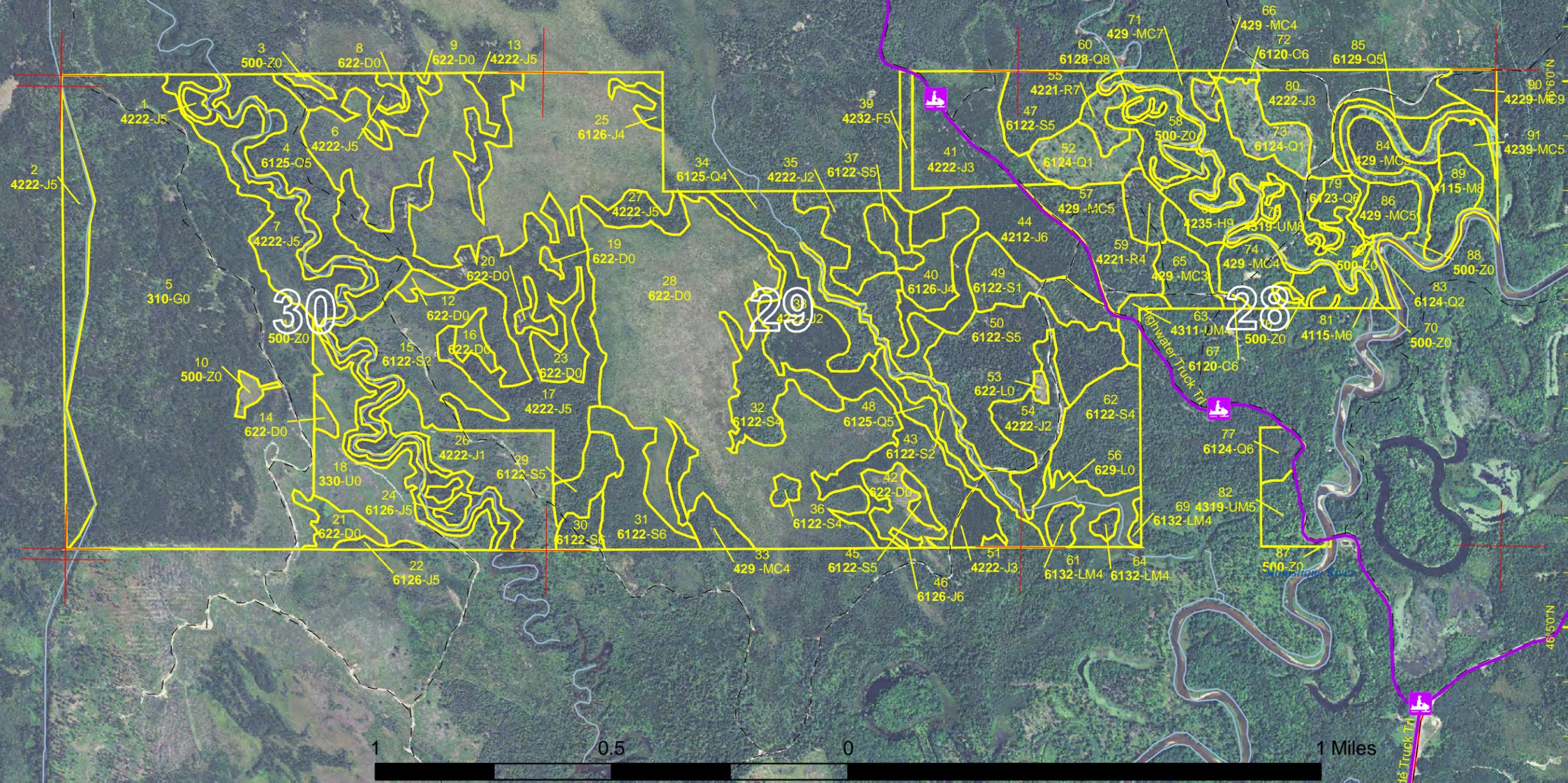
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- Poor Dirt Roads
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- Stream
- Intermittent Stream
- Lakes and Rivers
- Stand Boundaries

Forest Stands

- Level 3**
- 411 - Northern Hardwood
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Non-Forest Stands

- Level 3**
- 310 - Herbaceous Openland
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 - 500 - Water
 - 622 - Lowland Shrub
 - 629 - Mixed non-forested wetland



46°50'N

46°50'N

86°8'0"W

86°7'0"W

86°6'0"W

86°5'0"W

86°4'0"W

86°3'0"W

86°8'0"W

86°7'0"W

86°6'0"W

86°5'0"W

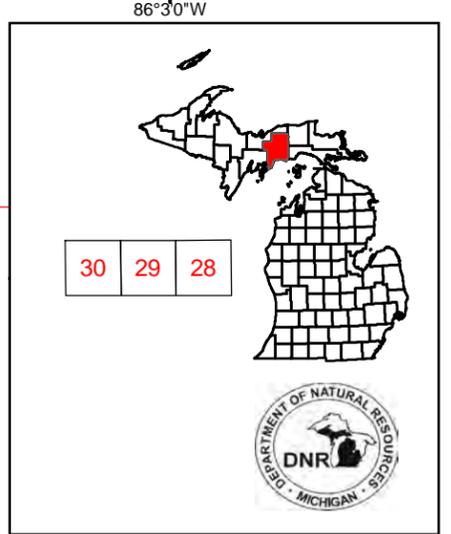
86°4'0"W

86°3'0"W

Compartment: 062
 T43N R14W
 28 29 30
 County: Schoolcraft
 Unit: Shingleton
 Management Area: Senej Manistique Swamp
 YOE: 2016
 Acres: 1,617 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 07/30/2014
 Map Phase: Pre-Review

Special Conservation Areas & Site Conditions Map

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



Legend

- Miris Corners
- Stand Boundaries

Site Condition Available

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

Site Condition Type

Available Factors W/ Constraints

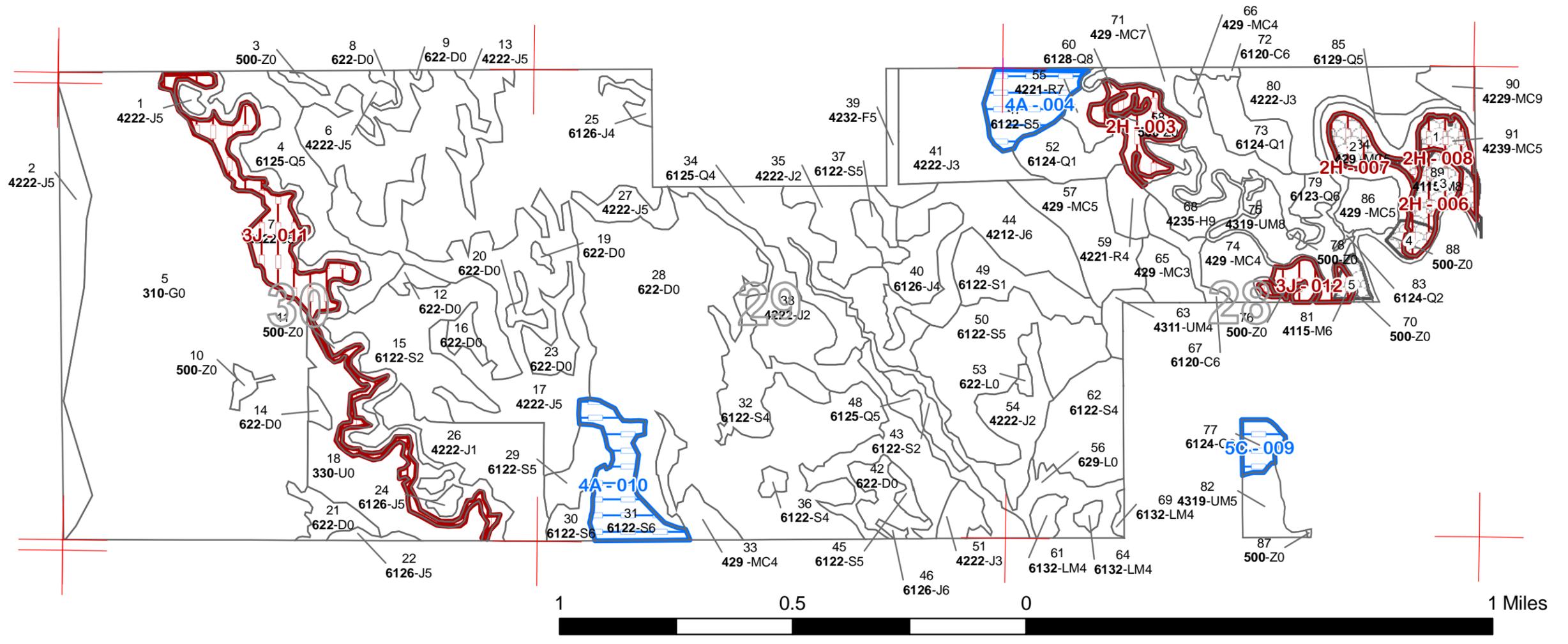
- 2I: Survey needed
- 4A: No merchantable products (see product standards)
- 5C: Delay treatment for age/size class diversity or exceptional site quality

Unavailable Factors

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

Reviewable SCAs

- Incorrect Data
- Proposed SCA
- SCA Removal



Report 1 – Total Acres by Cover Type and Age Class



	Age Class													Total	
	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 +		Uneten Age
Cedar	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7
Hemlock	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12
Herbaceous Openland	259	0	0	0	0	0	0	0	0	0	0	0	0	0	259
Jack Pine	30	62	94	35	0	0	0	170	4	0	0	0	0	0	394
Low-Density Trees	33	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Conifers	27	0	0	4	0	11	0	71	17	0	0	0	0	0	130
Lowland Mixed Forest	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Lowland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Spruce/Fir	43	0	0	62	0	0	0	67	19	25	0	0	0	0	215
Natural Mixed Pines	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	0	0	10	9	0	0	0	0	0	19
Red Pine	0	0	0	0	0	0	0	7	5	0	0	0	0	0	12
Treed Bog	308	0	0	0	0	0	0	0	0	0	0	0	0	0	308
Upland Conifers	0	0	0	32	0	0	8	18	40	0	0	0	0	0	97
Upland Mixed Forest	0	0	0	5	0	0	0	14	8	0	0	0	0	0	27
Upland Spruce/Fir	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Water	64	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Total	785	62	94	137	0	17	13	363	122	25	0	0	0	0	1617



Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2016

Compartment 062
Total Compartment Acres: 1,617

Acres by Treatment Type

Commercial Harvest - 221 Tree Planting - 5 Other - 259
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
	18	0	0	0	0	0	18
Lowland Coniferous Forest	60	0	0	0	0	0	60
Mixed Upland Conifers	0	0	0	11	0	0	11
Natural Pines	109	0	0	0	0	0	109
Northern Hardwood	0	0	0	2	0	0	2
Other Upland Conifers	7	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	14	0	0	14
Total	194	0	0	27	0	0	221



Standard	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	41056_OutOfY OE_1-Cut	25.0					Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Harvest all merchantable trees. Leave any large white pine, not to exceed 20 ba. Retention will be left on the edge.										
<u>Specs:</u>										
<u>Other Comments:</u> Harvest with other stands in the area and in compartment 56. Harvest will like occur in the winter due to ground conditions and the road. Will have to use part of snowmobile trail.										
<u>Next Steps:</u> Scarify after harvest. Any current species is acceptable regeneration.										
<u>Proposed Start Date:</u> 10/01/2015										
	41056_OutOfY OE-Cut	4.2					Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Harvest all merchantable trees. Leave any large white pine, not to exceed 20 ba. Retention will be left on the edge.										
<u>Specs:</u>										
<u>Other Comments:</u> Harvest with other stands in the area and in compartment 56. Harvest will like occur in the winter due to ground conditions and the road. Will have to use part of snowmobile trail.										
<u>Next Steps:</u> Scarify after harvest. Any current species is acceptable regeneration.										
<u>Proposed Start Date:</u> 10/01/2015										
	41062_OutOfY OE_1-Cut	5.1					Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut with reserves. Leave some scattered red pine. There are some low areas in the stand that may need to be buffered.										
<u>Specs:</u>										
<u>Other Comments:</u> Stand can be cut up to the ditch spoils.										
<u>Next Steps:</u> Scarify after the harvesting is complete. Trench and plant jack pine if scarification fails. Monitor regeneration for success. Acceptable species mix includes the current canopy species.										
<u>Proposed Start Date:</u> 10/01/2014										
	41062_OutOfY OE-Cut	13.3					Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut with reserves. Leave some scattered red pine. There are some low areas in the stand that may need to be buffered.										
<u>Specs:</u>										
<u>Other Comments:</u> Stands can be cut up to ditch spoils.										
<u>Next Steps:</u> Scarify after the harvesting is complete. Trench and plant jack pine if scarification fails. Monitor regeneration for success. Acceptable species mix includes the current canopy species.										
<u>Proposed Start Date:</u> 10/01/2014										
6	41062006-Cut	14.5	42220 - Natural Jack Pine	Medium Density Pole	79		Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Harvest all merchantable trees. Leave any large white pine, not to exceed 20 ba. Retention will be left on the edge.										
<u>Specs:</u>										
<u>Other Comments:</u> Harvest with other stands in the area and in compartment 56. Harvest will likely occur in the winter due to ground conditions and the road. Will have to use part of snowmobile trail.										
<u>Next Steps:</u> Scarify after harvest. Any current species is acceptable regeneration.										
<u>Proposed Start Date:</u> 10/01/2015										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	41062013-Cut	10.5	42220 - Natural Jack Pine	Medium Density Pole	79	111-140	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Harvest all merchantable trees. Leave any large white pine, not to exceed 20 ba. Retention will be left on the edge.

Specs:

Other Comments: Harvest with other stands in the area and in compartment 56. Harvest will like occur in the winter due to ground conditions and the road. Will have to use part of snowmobile trail.

Next Steps: Scarify after harvest. Any current species is acceptable regeneration.

Proposed

Start Date: 10/01/2015

17	41062017-Cut	71.3	42220 - Natural Jack Pine	Medium Density Pole	77	111-140	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription Harvest all merchantable trees. Leave any large white pine, not to exceed 20 ba. Retention will be left on the edge.

Specs:

Other Comments: Harvest with other stands in the area and in compartment 56. Harvest will like occur in the winter due to ground conditions and the road. Will have to use part of snowmobile trail.

Next Steps: Scarify after harvest. Any current species is acceptable regeneration.

Proposed

Start Date: 10/01/2015

27	41062027-Cut	7.4	42220 - Natural Jack Pine	Medium Density Pole	79	111-140	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription Harvest all merchantable trees. Leave any large white pine, not to exceed 20 ba. Retention will be left on the edge.

Specs:

Other Comments: Harvest with other stands in the area and in compartment 56. Harvest will like occur in the winter due to ground conditions and the road. Will have to use part of snowmobile trail.

Next Steps: Scarify after harvest. Any current species is acceptable regeneration.

Proposed

Start Date: 10/01/2015

29	41062029-Cut	8.9	6122 - Black Spruce	Medium Density Pole	75		Harvest	Clearcut with Reserves	612 - Lowland Coniferous Forest	Cmpt. Review Proposal
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Prescription Harvest all merchantable trees. Leave any large white pine, not to exceed 20 ba. Retention will be left on the edge.

Specs:

Other Comments: Harvest with other stands in the area and in compartment 56. Harvest will like occur in the winter due to ground conditions and the road. Will have to use part of snowmobile trail.

Next Steps: Scarify after harvest. Any current species is acceptable regeneration.

Proposed

Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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30	41062030-Cut	5.0	6122 - Black Spruce	High Density Pole	97	111-140	Harvest	Clearcut with Reserves	612 - Lowland Coniferous Forest	Cmpt. Review Proposal
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Prescription Harvest all merchantable trees. Leave any large white pine, not to exceed 20 ba. Retention will be left on the edge.

Specs:

Other Comments: Harvest with other stands in the area and in compartment 56. Harvest will like occur in the winter due to ground conditions and the road. Will have to use part of snowmobile trail.

Next Steps: Scarify after harvest. Any current species is acceptable regeneration.

Proposed Start Date: 10/01/2015

39	41062039-Cut	7.0	42320 - Upland Spruce	Medium Density Pole	75	81-110	Harvest	Clearcut	42320 - Upland Spruce	Cmpt. Review Proposal
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Prescription Harvest all trees. No reserves due to small size.

Specs:

Other Comments: Combine with stands 55, 74, 78, 7 81.

Next Steps: Monitor regeneration, any current species is acceptable.

Proposed Start Date: 10/01/2015

50	41062050-Cut	46.0	6122 - Black Spruce	Medium Density Pole	74		Harvest	Clearcut with Reserves	612 - Lowland Coniferous Forest	Cmpt. Review Proposal
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Prescription Harvest all merchantable trees.

Specs:

Other Comments: Harvest may occur in the winter due to ground conditions and the road. Will have to use part of snowmobile trail.

Next Steps: Scarify higher jack pine ridges after harvest. Any current species is acceptable regeneration.

Proposed Start Date: 10/01/2015

55	41062055cut-Cut1	5.1	42210 - Natural Red Pine	Low Density Log	89	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Clear cut stand to prepare for red pine planting.

Specs:

Other Comments: Close FTP C41-1314

Next Steps: After harvest plant red pine.

Proposed Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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74	41062074-Cut	10.5	429 - Mixed Upland Conifers	Low Density Pole	85	51-80	Harvest	Shelter Wood with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal
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Prescription This stand's average ba is 140, but the stocking is variable and there are a lot of submerchantable saplings. Thin stand down to average 60 ba.
Specs: Remove all ash. Create regeneration openings throughout. Leave hemlock and cedar except for operation need.

Other Comments: Buffer creek according to BMP guidelines. Stand is part of deer yard, so harvest will take place in winter. Will have to use part of snowmobile trail.

Next Steps: Monitor regeneration. Any current species is acceptable regeneration. Plant oak where feasible.

Proposed Start Date: 10/01/2015

75	41062075-Cut	14.0	4319 - Mixed Upland Forest	Medium Density Log	78	111-140	Harvest	Shelter Wood with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
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Prescription This stand's average ba is 120, but the stocking is variable and there are a lot of submerchantable saplings. Thin stand down to average 60 ba.
Specs: Remove all ash. Create regeneration openings throughout. Leave all hemlock and cedar except for operational need.

Other Comments: Buffer creek according to BMP guidelines. Harvest stand in the winter since it is part of the deer yard. Will have to use part of snowmobile trail.

Next Steps: Monitor regeneration. Any current species is acceptable regeneration. Plant oak where feasible.

Proposed Start Date: 10/01/2015

81	41062081-Cut_exp-1	2.1	4115 - Y.Birch, Hemlock NH	High Density Pole	89	111-140	Harvest	Shelter Wood with Reserves	411 - Northern Hardwood	Cmpt. Review Proposal
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Prescription This stand's average ba is 140, but the stocking is variable and there are a lot of submerchantable saplings. Harvest stand to average 60 ba.
Specs: Remove all ash. Create regeneration openings throughout. Do not harvest hemlock and cedar except for operational needs.

Other Comments: This stand borders part of Black Creek. Buffer according to BMP guidelines. Harvest will occur in winter due to deer yard. Will have to use part of snowmobile trail.

Next Steps: Monitor regeneration. Any current species is acceptable regeneration. Plant oak where possible.

Proposed Start Date: 10/01/2015

5	NF_41062005-Prep	258.6	3102 - Grass				Site Prep	Scarification	4222 - Natural Jack Pine	Fld. Tr. Bdy. - Incomplete
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Prescription FTP C41-1314.
Specs:

Other Comments: Half of stand has been scarified, remainder is scheduled for Summer of 2014.

Next Steps: Monitor regeneration, if fail replant with Jack Pine.

Proposed Start Date: 10/09/2006

Total Treatment Acreage Proposed: 508.6



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

Prescription

Specs:

Other

Comment:

Next

Steps:

Proposed

Start Date: #Type!

Limiting Factor

**Total Treatment
Acreage Proposed: 0.0**

Dominant Site Conditions

	No	5C	4A	3J	2H
Cedar	7				
Hemlock	12				
Jack Pine	359			34	
Lowland Conifers	113	5			12
Lowland Mixed Forest	6				
Lowland Spruce/Fir	179		35		
Natural Mixed Pines	6				
Northern Hardwood	2			7	10
Red Pine	12				
Upland Conifers	82				15
Upland Mixed Forest	27				
Upland Spruce/Fir	7				
Total Forested Acres	811	5	35	41	38
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
003	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12				
Comments:							
004	Available	4A: No merchantable products (see product standards)	16				
Comments:							

Report 5 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment 062
Year of Entry 2016

006	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	
Comments:				
007	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	
Comments:				
008	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	
Comments:				
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	
Comments:				
010	Available	4A: No merchantable products (see product standards)	20	
Comments: Mostly 1 stick black spruce and sub-merchantable.				
011	Not Available	3J: Water quality / BMPs (stream, river, or lake)	34	
Comments:				

Report 5 – Site Conditions

Shingleton Mgt. Unit

Compartment 062

Sheila Clark : Examiner

Year of Entry 2016

012	Not Available	3J: Water quality / BMPs (stream, river, or lake)	7
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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
1	Other SCA		SCA Removal	
Comments				
Potential Old Growth				
2	Other SCA		SCA Removal	
Comments				
Potential Old Growth				
3	Other SCA		SCA Removal	
Comments				
Potential Old Growth				
4	Other SCA		SCA Removal	
Comments				
Potential Old Growth. Stand has is on the corner of the Manistique river and the oxbow to the north of the stand dumps through a series of drainages in stand.				
5	Other SCA		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.

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Shingleton Mgt. Unit

Report 8 – Forested Stands

Compartment: 062
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	Medium Density Pole	1.5	77		Island of pine surrounded by Little Duck Creek.
2	42220 - Natural Jack Pine	Medium Density Pole	22.8	77		This stand was set up for harvest in 2005, but was returned due to poor market conditions and road issues. The road issues have been resolved, the sale will be accessed through Little Walsh Duck Sale and will require a bridge to cross the Walsh Ditch. The stand will be prepped with compartment 57 in 2015.
4	6125 - Lowland Black Spruce, Jack Pine	Medium Density Pole	28.7	77		This stand is predominately low ground with not a lot of merchantable volume. Some pockets of high ground.
6	42220 - Natural Jack Pine	Medium Density Pole	14.5	79		This stand is predominately jack pine with black spruce along the edges.
7	42220 - Natural Jack Pine	Medium Density Pole	36.8	77		Stand is buffer along Little Duck Creek.
13	42220 - Natural Jack Pine	Medium Density Pole	10.5	79	111-140	Trees are overmature and starting to die. Many trees are 6 sticks tall. There is also a lot of unmerchantable trees in the stand that will need to be protected.
15	6122 - Black Spruce	Medium Density	42.7	4		This stand has variable stocking and various heights, ranging from 10 feet to 2 stick black spruce. The overall stocking is low and unmerchantable. Stand was harvested in 2010 by Plum Creek. West side of stand is buffer along Little Duck Creek.
17	42220 - Natural Jack Pine	Medium Density Pole	71.3	77	111-140	
22	6126 - Lowland Jack Pine	Medium Density Pole	2.0	79		
24	6126 - Lowland Jack Pine	Medium Density Pole	3.1	81		
25	6126 - Lowland Jack Pine	Low Density Pole	2.9	79		
26	42220 - Natural Jack Pine	Low Density Sapling	30.0	4		This stand was harvested by Plum Creek before purchase around 2010 based on photos. Left in the overstory are a few red and white pine trees. The other remaining trees are small pockets of submerchantable black spruce.
27	42220 - Natural Jack Pine	Medium Density Pole	7.4	79	111-140	Stand is overmature and starting to die.
29	6122 - Black Spruce	Medium Density Pole	8.9	75		Variable ground - mostly low, though some pockets of merchantability, not enough to harvest. Lots of submerchantable black spruce.
30	6122 - Black Spruce	High Density Pole	5.0	97	111-140	This stand is slightly higher than adjacent black spruce stand and has merchantable timber.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	6122 - Black Spruce	High Density Pole	19.5	97	81-110	Stand is slow growing black spruce either 1 stick or submerchantable - will probably never be cut.
32	6122 - Black Spruce	Low Density Pole	19.9	30		Stand was cut about 30 years ago during the winter, leaving the small spruce.
33	429 - Mixed Upland Conifers	Low Density Pole	9.3	75	81-110	South end of stand was partially cut about 28 years ago with compartment to south. Stand is still jack pine with small diameter. Not enough volume for harvest.
34	6125 - Lowland Black Spruce, Jack Pine	Low Density Pole	34.9	75		
35	42220 - Natural Jack Pine	Medium Density	16.0	27		Nyberg Sale. Jack Pine doing well, not merchantable yet.
36	6122 - Black Spruce	Low Density Pole	1.8	79		
37	6122 - Black Spruce	Medium Density Pole	4.7	75		taller than adjacent stand 33.
38	42220 - Natural Jack Pine	Medium Density	45.6	27		Part of Nyberg Sale. Jack Pine doing well, though patchy. Lower ground is dominated by black spruce.
39	42320 - Upland Spruce	Medium Density Pole	7.0	75	81-110	Stand is mainly spruce, but there are pockets of cedar throughout.
40	6126 - Lowland Jack Pine	Low Density Pole	10.9	27		Stand was part of Nyberg sale, however, it is lower than surrounding jack pine.
41	42220 - Natural Jack Pine	High Density Sapling	33.3	15		
43	6122 - Black Spruce	Medium Density	5.3	75	51-80	Low ground, submerchantable trees.
44	42120 - Planted Jack Pine	High Density Pole	35.2	34		Stand was cut in 1979 and then trenched and planted.
45	6122 - Black Spruce	Medium Density Pole	2.5	81		Old stand - poor ground and dieing - not merchantable.
46	6126 - Lowland Jack Pine	High Density Pole	0.8	81	81-110	Predominately one stick trees, poor quality and dieing.
47	6122 - Black Spruce	Medium Density Pole	16.7	85	51-80	
48	6125 - Lowland Black Spruce, Jack Pine	Medium Density Pole	10.8	57		

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Shingleton Mgt. Unit

Report 8 – Forested Stands

Compartment: 062
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	6122 - Black Spruce	Low Density Sapling	16.9	34		Lower ground than surround harvested area.
50	6122 - Black Spruce	Medium Density Pole	46.0	74		
51	42220 - Natural Jack Pine	High Density Sapling	5.7	27		Nyberg Sale, jack pine doing well.
52	6124 - Lowland Spruce- Fir	Low Density Sapling	13.7	5		This stand is part of Shaky Bridge Sale 41-17-06-01. The White Pine log trees are residual trees left from final harvest. The future stand is the saplings coming up.
54	42220 - Natural Jack Pine	Medium Density	15.6	27		Nyberg Sale, jack pine doing well.
55	42210 - Natural Red Pine	Low Density Log	5.1	89	1-50	
57	429 - Mixed Upland Conifers	Medium Density Pole	22.8	34	111-140	Stand was cut in 1979-1980, stand has a heavy aspen component but is lagging behind the jack pine. Stand also has some residual red pine that are more predominant on east side of the stand. Open stand, not heavily stocked.
59	42210 - Natural Red Pine	Low Density Pole	6.7	70	51-80	[5-12-06 BB] Stand now on proposal, 41-017-01 Shaky Bridge Sale. Actual acreage is 6 acres. Residual Basal Area = Red Pine - 70'. [12/14/09 BB] Sale now closed, TCR date is 12/1/09, Stand was thinned summer 2009.
60	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Log	12.0	80	171-200	This stand is a buffer along duck Creek. There are pockets of hemlock, but not solid hemlock.
61	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	3.2	57		Small stand surround by drain/lowground.
62	6122 - Black Spruce	Low Density Pole	24.8	35		This stand is a spruce bog with variable stocking. there are also small pockets of tag alder scattered throughout. The west side of the stand was strip cut in 1979, can't make out the strips very well on the ground other than there is very little of the mature strips left. Manage for the understory. Very low ground.
63	4311 - Pine, Aspen Mix	Low Density Pole	4.5	34	51-80	
64	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	1.6	57		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	429 - Mixed Upland Conifers	High Density Sapling	8.7	34		Stand was cut in 1979-1980, stand has a heavy aspen component but the diameter is lagging behind jack pine. Stand also has some residual red pine that are more predominant on east side of the stand. Regeneration is approximately 20 feet tall with scattered log trees through the stand.
66	429 - Mixed Upland Conifers	Low Density Pole	2.4	89		Stand was part of the Big Duck Creek Sale (1987), Sale was cancelled due to condition of Cookson Bridge. Due to the size and location of stand do a shelterwood seed cut. Will need to be cut in the winter, plant with inmates after sale is complete. Stay a minimum of 25' back from the top of the banks to reduce soil loss and sedimentation. Minimize impact on snowmobile trail as much as possible. [5-12-06 BB] Stand now on proposal, 41-017-01 Shaky Bridge Sale. Actual acreage is 2 acres. Residual Basal Area = White Pine - 20', Red Pine - 10', Hemlock - 3'. [12/14/09 BB] Sale now closed, TCR date is 12/1/09, Not certain how stand will be planted with the loss of inmates. Stand was cut summer 2009.
67	6120 - Lowland Cedar	High Density Pole	6.0	85		
68	42350 - Upland Hemlock	High Density Log	11.7	87	200+	
69	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	1.1	57		
71	429 - Mixed Upland Conifers	Low Density Log	19.6	82		This is a buffer along Duck Creek, full of drains.
72	6120 - Lowland Cedar	High Density Pole	1.3	89	111-140	
73	6124 - Lowland Spruce- Fir	Low Density Sapling	13.0	5		[5-12-06 BB] Stand now on proposal, 41-017-01 Shaky Bridge Sale. Actual acreage is 14 acres. Residual Basal Area = Hemlock - 30'. [12/14/09 BB] Sale now closed, TCR date is 12/1/09, much of the hemlock will likely blow down. Stand was cut summer 2009.
74	429 - Mixed Upland Conifers	Low Density Pole	10.5	85	51-80	
75	4319 - Mixed Upland Forest	Medium Density Log	14.0	78	111-140	
77	6124 - Lowland Spruce- Fir	High Density Pole	5.3	80		Stand is mostly small diameter black spruce. There is a vernal pond near the road edge. there is a road through the stand to access private. Not ready for harvest due to low basal area.
79	6123 - Lowland Fir	High Density Pole	4.2	34		

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Shingleton Mgt. Unit

Report 8 – Forested Stands

Compartment: 062
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
80	42220 - Natural Jack Pine	High Density Sapling	28.4	15		PART OF "BRIDGE OVER DUCK SALE". Scarified August 1999 Schedule regen check summer 2001 [6-25-04 BB] Stand was counted in 2003 showing adequate stocking 735tpa. Ftp # C41-770 is now closed.
81	4115 - Y.Birch, Hemlock NH	High Density Pole	9.1	89	111-140	
82	4319 - Mixed Upland Forest	Medium Density Pole	8.2	82	81-110	Parts of the stand were cut around 30 years ago.
83	6124 - Lowland Spruce- Fir	Medium Density	1.7	70		Drains and ponds scattered. Mostly submerchantable.
84	429 - Mixed Upland Conifers	Medium Density Pole	7.7	67		
85	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	6.1	70		Part of this stand is a steep cliff that goes down into the oxbow. This is part of a buffer along an oxbow.
86	429 - Mixed Upland Conifers	Medium Density Pole	8.5	74		Upland mixed conifer. The balsam is smaller than the other species.
89	4115 - Y.Birch, Hemlock NH	Medium Density Log	10.2	79	111-140	
90	42290 - Natural Mixed Pine	High Density Log	5.6	61	81-110	
91	42390 - Mixed Non- Pine Upland Conifers	Medium Density Pole	7.8	83	111-140	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	50 - Water	1.2	No	Unspecified	
5	3102 - Grass	258.8	Natural Regen	Jack Pine	Schedule regen check in 2018.
8	6224 - Treed Bog	1.5	No	Unspecified	
9	6224 - Treed Bog	0.2	No	Unspecified	
10	50 - Water	2.3	No	Unspecified	
11	50 - Water	29.5	No	Unspecified	
12	6224 - Treed Bog	2.8	No	Unspecified	
14	6224 - Treed Bog	1.7	No	Unspecified	
16	6224 - Treed Bog	3.7	No	Unspecified	
18	3302 - Low Density Conifer Trees	32.6	Natural Regen	Jack Pine	Stand was purchased from Plum Creek 11-27-2012. Was harvested in 2010.
19	6224 - Treed Bog	0.9	No	Unspecified	
20	6224 - Treed Bog	2.5	No	Unspecified	
21	6224 - Treed Bog	6.7	No	Unspecified	
23	6224 - Treed Bog	7.6	No	Unspecified	
28	6224 - Treed Bog	271.9	No	Unspecified	Trees are denser along timbered stands, but very little wide open spaces.
42	6224 - Treed Bog	8.7	No	Unspecified	
53	6229 - Mixed lowland shrub	1.2	No	Unspecified	
56	629 - Mixed non-forested wetland	20.3	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
58	50 - Water	1.1	No	Unspecified	Oxbow.
70	50 - Water	10.2	No	Unspecified	Duck Creek.
76	50 - Water	1.6	No	Unspecified	
78	50 - Water	1.1	No	Unspecified	Oxbow.
87	50 - Water	0.1	No	Unspecified	
88	50 - Water	16.9	No	Unspecified	