



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 57

Entry Year 2015

Acreage: 2,554

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 08/06/2013

Stand Examiner: Tori Irving

Legal Description:

T43N, R15W, Sec 22-26

Identified Planning Goals:

Timber, wildlife, recreation, and fisheries are the main uses of this area. The goal is to manage for all uses simultaneously and to provide, enhance, and perpetuate their uses through proper management. Proposed forest treatments will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

Soil and topography:

The upland portion of the compartment, which is mainly west of the centerline of sections 4 and 9, is composed of well drained sandy soils and this portion lies within the Hiawatha Moraine Land Type Association (LTA). The eastern portion of the compartment is lower in elevation with the exception of some ridges near the Manistique River is composed of poorly drained sands to muck or peat type soils, this portion of the compartment lies within the Mintfarm LTA. Soil types include: Rubicon Sand, Stutts Kalkaska Complex, Kalkaska Loamy Sand, AuGres Deford Complex, Proper Sand, Paquin Sand, and Carbondale, Lupton, and Tawas Soils.

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

The portion of the compartment which is east of the river is contiguous state ownership except for one forty of private in Section 23. The western portion of the compartment is separated by corporate and private owners. The majority of the land use issues include ATV's in the area are for hunting purposes. The West Branch of the Manistique River also provides opportunities for public use in the area.

Unique Natural Features:

This compartment is currently under review by MNFI.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Silurian Manitoulin Dolomite and Ordovician Queenston Shale subcrop below the glacial drift. The Manitoulin is used for stone/dolomite. The nearest gravel pit is four miles to the west and potential appears to be limited. There is a clay pit 4 miles to the west. There is no commercial oil and gas production in the UP.

Vehicle Access:

The east portion of the road is accessed from Cal's Drive also known as the West Branch Road. Cal's Drive does not hold up to heavy traffic in a dry summer due to sandy areas. The western portion of the compartment has the Stutts Road going through it or accessed off of Old Camp Manistique Road.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no developed recreation facilities within the compartment. Old Camp Manistique Road is also designated as Snowmobile Trail #2, just west of the compartment.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

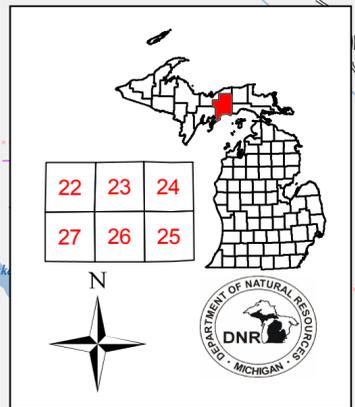
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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**

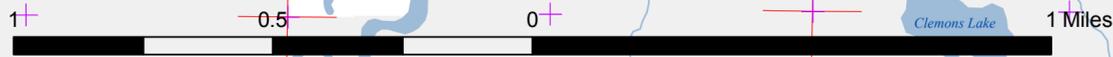
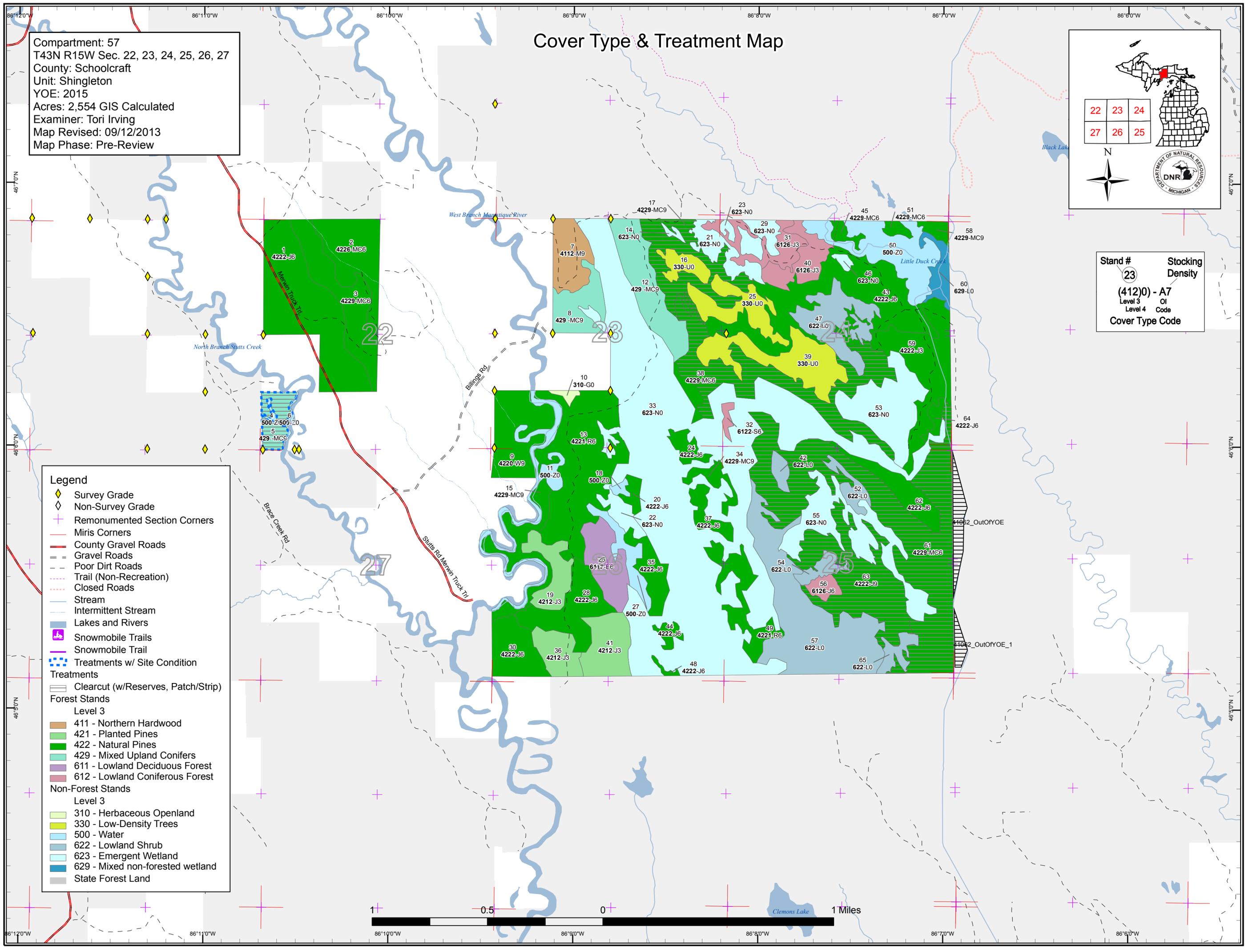
Cover Type & Treatment Map

Compartment: 57
 T43N R15W Sec. 22, 23, 24, 25, 26, 27
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2015
 Acres: 2,554 GIS Calculated
 Examiner: Tori Irving
 Map Revised: 09/12/2013
 Map Phase: Pre-Review



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

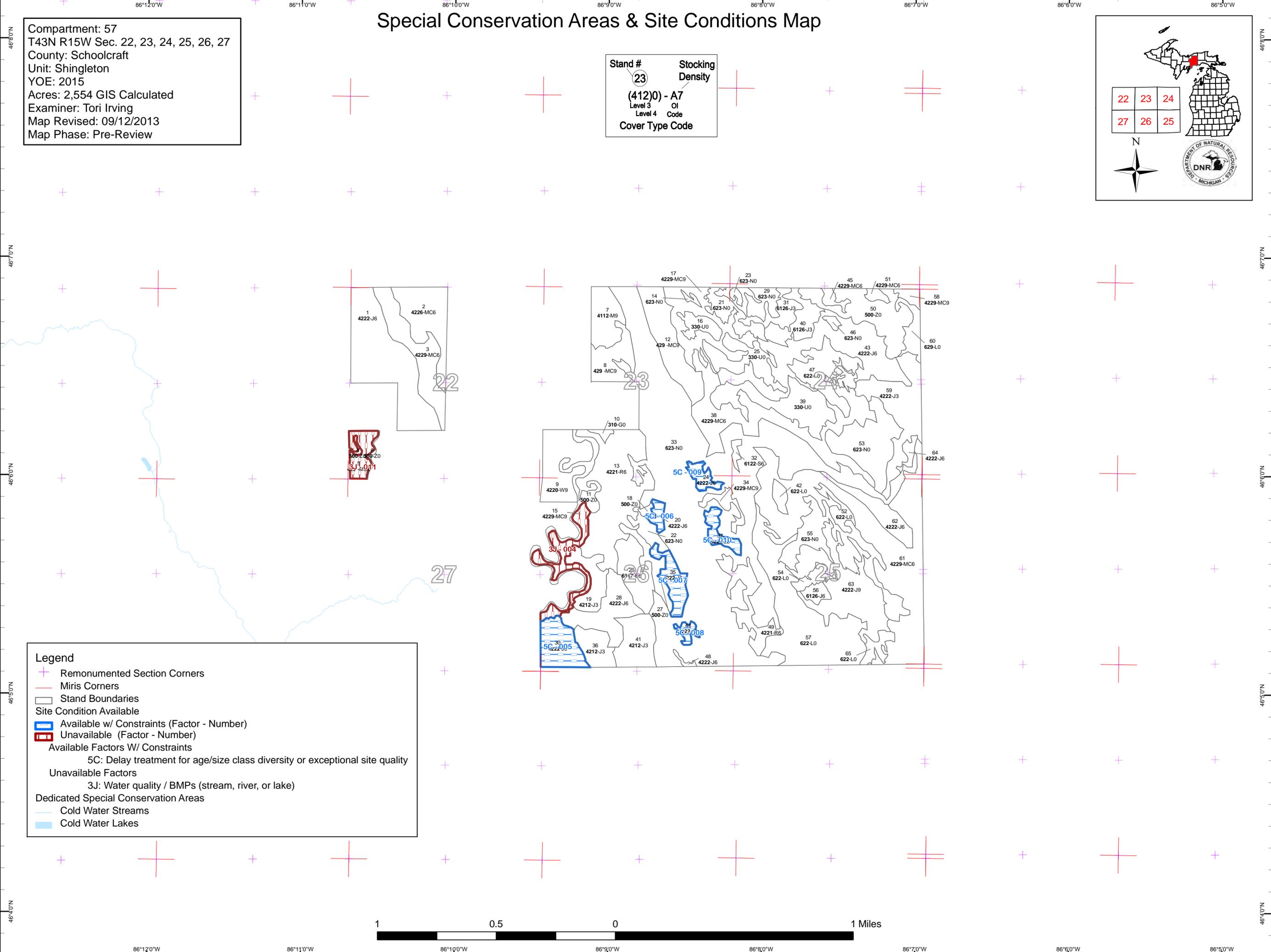
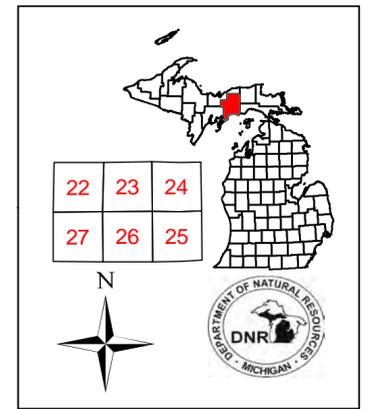
- Legend**
- ◆ Survey Grade
 - ◇ Non-Survey Grade
 - ✚ Remonumented Section Corners
 - ✚ Miris Corners
 - County Gravel Roads
 - - Gravel Roads
 - - Poor Dirt Roads
 - - Trail (Non-Recreation)
 - - Closed Roads
 - Stream
 - - Intermittent Stream
 - Lakes and Rivers
 - Snowmobile Trails
 - Snowmobile Trail
 - Treatments w/ Site Condition
 - Clearcut (w/Reserves, Patch/Strip)
 - Forest Stands**
 - Level 3
 - 411 - Northern Hardwood
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 429 - Mixed Upland Conifers
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - Non-Forest Stands**
 - Level 3
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 629 - Mixed non-forested wetland
 - State Forest Land



Special Conservation Areas & Site Conditions Map

Compartment: 57
 T43N R15W Sec. 22, 23, 24, 25, 26, 27
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2015
 Acres: 2,554 GIS Calculated
 Examiner: Tori Irving
 Map Revised: 09/12/2013
 Map Phase: Pre-Review

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



Legend

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Available Factors W/ Constraints
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
 - 3J: Water quality / BMPs (stream, river, or lake)
- Dedicated Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes



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 +		Uneven Age
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	82	60	0	277	7	42	108	58	0	0	0	0	0	0	634
Low-Density Trees	95	0	0	0	0	0	0	0	0	0	0	0	0	0	95
Lowland Deciduous	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32
Lowland Shrub	210	0	0	0	0	0	0	0	0	0	0	0	0	0	210
Lowland Spruce/Fir	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Marsh	673	0	0	0	0	0	0	0	0	0	0	0	0	0	673
Natural Mixed Pines	0	0	0	58	0	49	10	339	0	6	0	0	28	0	489
Northern Hardwood	0	0	0	0	0	0	0	0	0	29	0	0	0	0	29
Red Pine	0	0	0	0	0	0	136	0	0	0	0	0	0	0	136
Upland Conifers	0	0	0	0	0	0	0	17	0	0	77	0	0	0	94
Water	108	0	0	0	0	0	0	0	0	0	0	0	0	0	108
White Pine	0	0	0	0	0	47	0	0	0	0	0	0	0	0	47
Total	1171	60	0	335	7	138	289	414	0	35	77	0	28	0	2554



Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2015

Compartment 057
Total Compartment Acres: 2,554

Acres by Treatment Type

Commercial Harvest - 409	Tree Planting - 0	Other - 0
Habitat Cut - 17	Opening Maintenance - 0	

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
(Habitat Cut)Mixed Upland Conifers	17	0	0	0	0	0	17
Natural Pines	409	0	0	0	0	0	409
Total	426	0	0	0	0	0	426



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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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17	41057017-Cut	48.5	42290 - Natural Mixed Pine	High Density Log	72		Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Cut all species. Leave some scattered red and white pine and black spruce and some along the edges if they exist. Do not cut any hemlock.
Specs:

Other Comments:

Next Steps: Monitor regeneration. Acceptable regeneration mix is the current canopy species composition. Write and FTP for cultivation work.

Proposed Start Date: 10/01/2014

38	41057038-Cut	88.1	42290 - Natural Mixed Pine	High Density Pole	72	81-110	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Leave some scattered red and white pine.
Specs:

Other Comments:

Next Steps: 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.

Proposed Start Date: 10/01/2014

61	41057061-Cut	191.2	42290 - Natural Mixed Pine	High Density Pole	78	81-110	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Leave some scattered red pine. There are some low areas in the stand that may need to be buffered.
Specs:

Other Comments:

Next Steps: 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.

Proposed Start Date: 10/01/2014

63	41057063-Cut	81.5	42220 - Natural Jack Pine	High Density Log	66		Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Leave some scattered red pine.
Specs:

Other Comments:

Next Steps: 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.

Proposed Start Date: 10/01/2014

	41062_OutOfY OE_1-Cut	5.1					Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Leave some scattered red pine. There are some low areas in the stand that may need to be buffered.
Specs:

Other Comments: Stand can be cut up to the ditch spoils.

Next Steps: 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.

Proposed Start Date: 10/01/2014



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41062_OutOfY OE-Cut	13.3					Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal

Prescription: Clearcut with reserves. Leave some scattered red pine. There are some low areas in the stand that may need to be buffered.

Specs:

Other Comments: Stands can be cut up to ditch spoils.

Next Steps: 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.

Proposed Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 427.7**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5 41057005-Cut	17.0	429 - Mixed Upland Conifers	High Density Log	70		Harvest	Clearcut with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal

Prescription Clearcut with reserves. Leave cedar, hemlock, and any oak.

Specs:

Other Comment: The northern part of the stand is sparse. Stand could be cut. The aspen is getting old and is beginning to degrade; however, after the river and wet areas are buffered, much of the stand will be lost.

Next Steps: Continue to monitor stand for regeneration. Acceptable species mix is a representation of current canopy species.

Proposed

Start Date: 10/01/2014

Limiting Factor 3J: Water quality / BMPs (stream, river, or lake)

**Total Treatment
Acreage Proposed: 17.0**

Report 5 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment 057

Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C	3J
	Available	Not Available				
629	629		Jack Pine	546	83	
32	32		Lowland Deciduous	32		
3	3		Lowland Spruce/Fir	3		
489	461	28	Natural Mixed Pines	461		28
29	29		Northern Hardwood	29		
136	136		Red Pine	136		
94	77	17	Upland Conifers	77		17
47	47		White Pine	47		
1,460	1,415	45	Total Forested Acres	1,332	83	45
	97%	3%	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
004	Not Available	3J: Water quality / BMPs (stream, river, or lake)	28				
Comments:							
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31				
Comments:							
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6				
Comments:							

Report 5 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment 057

Year of Entry 2015

007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20
Comments:			
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5
Comments:			
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9
Comments:			
010	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12
Comments:			
011	Not Available	3J: Water quality / BMPs (stream, river, or lake)	17
Comments:			



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 7 – 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.

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:
1	42220 - Natural Jack Pine	High Density Pole	103.7	36		
2	42260 - Natural Pine, Mixed Deciduous	High Density Pole	48.9	39	1-50	
3	42290 - Natural Mixed Pine	High Density Pole	49.1	58		There are some lowland black spruce pockets scattered through the stand. Some areas are heavier to red pine and then some are heavier to jack pine.
5	429 - Mixed Upland Conifers	High Density Log	17.0	70		
7	4112 - Maple, Beech, Cherry Association	High Density Log	29.3	90	1-50	There is good red maple and black cherry regeneration in the stand. This regeneration will most likely out compete the beech.
8	429 - Mixed Upland Conifers	High Density Log	28.1	101	51-80	
9	42200 - Natural White Pine	High Density Log	46.8	59	81-110	
12	429 - Mixed Upland Conifers	High Density Log	49.2	101	51-80	Stand was cut in 1993. There is good hemlock regeneration throughout the stand.
13	42210 - Natural Red Pine	High Density Pole	105.2	68	51-80	Stand was cut in 2002 as apart of the Hough Camp Sale. Stand could not be scarified. The stand was scheduled for scarification in the previous entry in conjunction with the timber sale # 97-10. The sale was cut and the stand was too thick to scarify afterwards. FTP C41-798 includes this stand, the treatment for this stand is being dropped as part of this review. 1/28/04: Received a completion report from TMS indicating 8 acres were scarified for all stands.
15	42290 - Natural Mixed Pine	High Density Log	27.6	127	111-140	This stand is along the West Branch of the Manistique River. There are some large white pine trees scattered in the stand that meet the definition of a "legacy tree." Some trees have a DBH of 33 inches. Leave this stand and do not harvest for the following additional reasons: influence zone from the river, water quality, small corridor for wild life, and possible BMP issues with the slopes along the river banks.
17	42290 - Natural Mixed Pine	High Density Log	48.5	72		There are some marshy areas in the stand that will need to be excluded from the sale area.
19	42120 - Planted Jack Pine	High Density Sapling	24.1	5		This stand was treated under FTP#C41-798. Stand was cut in the Winter of 2002. Sale was closed 9/15/2002. The completion report (1/28/2004) showed that 8 acres were scarified. Regeneration check was scheduled for 2006. The 2006 regen count results were: jack pine – 0, red pine – 21, red maple – 500, aspen – 322, black spruce 27, white pine – 75, balsam fir – 34, tamarack – 14, beech-14. Stand is on the list to get trenched and planted in 2007. Stand was trenched and planted in the spring of 2008. The 2009 regen check results were: jack pine – 872, white pine – 13, black spruce – 9. Three year regen check in 2011 showed excellent regeneration. Stand is fully regenerated and FTP is closed.



Stand	Shingleton Mgt. Unit		Report 8 – Forested Stands			Compartment: 057 Year of Entry: 2015	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
20	42220 - Natural Jack Pine	High Density Pole	6.0	63			
24	42220 - Natural Jack Pine	High Density Pole	9.1	63			
26	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	32.4	68	111-140		
28	42220 - Natural Jack Pine	High Density Pole	41.7	54		Stand is in good health. Hang on to for another 10 years. Mostly small, pole sized JP. There is some red pine, white pine and aspen scattered throughout. This is a good stand to keep for age class diversity in the compartment.	
30	42220 - Natural Jack Pine	High Density Pole	31.2	78			
31	6126 - Lowland Jack Pine	High Density Sapling	23.0	33			
32	6122 - Black Spruce	High Density Pole	3.4	63			
34	42290 - Natural Mixed Pine	High Density Log	9.7	63		Jack pine ridge in the marsh.	
35	42220 - Natural Jack Pine	High Density Pole	19.7	70			
36	42120 - Planted Jack Pine	High Density Sapling	22.9	5		This stand was treated under FTP#C41-798. Stand was cut in the Winter of 2002. Sale was closed 9/15/2002. The completion report (1/28/2004) showed that 8 acres were scarified. Regeneration check was scheduled for 2006. The 2006 regen count results were: jack pine – 0, red pine – 21, red maple – 500, aspen – 322, black spruce 27, white pine – 75, balsam fir – 34, tamarack – 14, beech-14. Stand is on the list to get trenched and planted in 2007. Stand was trenched and planted in the spring of 2008. The 2009 regen check results were: red pine – 1196, white pine - 38. Three year regen check in 2011 showed excellent regeneration. Stand is fully regenerated and FTP is closed.	
37	42220 - Natural Jack Pine	High Density Pole	11.7	63		Marsh Island. There are some scattered pockets of red pine in the stand.	
38	42290 - Natural Mixed Pine	High Density Pole	99.0	72	81-110	New stand added.	
40	6126 - Lowland Jack Pine	High Density Sapling	24.6	33		Stand swapped from Non-Forested to Forested.	
41	42120 - Planted Jack Pine	High Density Sapling	35.4	5			
43	42220 - Natural Jack Pine	High Density Pole	96.5	33		Jack pine ridge	

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Shingleton Mgt. Unit

Report 8 – Forested Stands

Compartment: 057
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44 42220 - Natural Jack Pine	High Density Pole	5.3	70		
45 42290 - Natural Mixed Pine	High Density Pole	5.0	36		
48 42220 - Natural Jack Pine	High Density Pole	1.7	70		
49 42210 - Natural Red Pine	High Density Pole	30.5	63	111-140	Red pine ridge. Leave stand for another ten years. There is still some room in the canopy for the trees to gain more volume. There are some large red pine trees scattered through the stand.
51 42290 - Natural Mixed Pine	High Density Pole	4.0	36		
56 6126 - Lowland Jack Pine	High Density Pole	7.2	41		This pocket of jack pine is lower than the surrounding stand of jack pine, which is on a ridge. The stand will probably not do much more.
58 42290 - Natural Mixed Pine	High Density Log	5.6	98	81-110	Stand is really wet and is located along a drainage from the Little Duck Creek.
59 42220 - Natural Jack Pine	High Density Sapling	59.9	13		some scattered log size red pine. Not enough to be part of the canopy.
61 42290 - Natural Mixed Pine	High Density Pole	191.2	78	81-110	Some open holes in the north end with a good amount of jack pine regeneration already present. Some of the trees are starting to degrade. Sale was part of the West Walsh Sale #12-05. Sale was returned to the state by the purchaser due to poor market conditions. TCR date 7/23/2007.
62 42220 - Natural Jack Pine	High Density Pole	23.8	36		
63 42220 - Natural Jack Pine	High Density Log	81.5	66		There is some large jack pine scattered in the stand. There is a little more red pine along the edges.
64 42220 - Natural Jack Pine	High Density Pole	5.1	33		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	50 - Water	1.3	No	Unspecified	
6	50 - Water	1.9	No	Unspecified	
10	310 - Herbaceous Openland	2.6	No	Unspecified	
11	50 - Water	30.7	No	Unspecified	
14	6239 - Mixed Emergent Wetland	1.8	No	Unspecified	
16	3303 - Mixed Low Density Trees	12.1	No	Unspecified	
18	50 - Water	2.4	No	Unspecified	
21	6239 - Mixed Emergent Wetland	19.2	No	Unspecified	
22	6239 - Mixed Emergent Wetland	11.4	No	Unspecified	
23	6239 - Mixed Emergent Wetland	2.5	No	Unspecified	
25	3303 - Mixed Low Density Trees	30.7	No	Unspecified	
27	50 - Water	16.3	No	Unspecified	
29	6239 - Mixed Emergent Wetland	14.0	No	Unspecified	
33	6239 - Mixed Emergent Wetland	504.0	No	Unspecified	There are pockets of trees scattered throughout the entire stand including paper birch, jack pine, white pine and red pine, along with tag alder.
39	3302 - Low Density Conifer Trees	52.5	No	Unspecified	
42	622 - Lowland Shrub	6.4	No	Unspecified	
46	6239 - Mixed Emergent Wetland	2.5	No	Unspecified	
47	6229 - Mixed lowland shrub	42.1	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
50	50 - Water	54.9	No	Unspecified	
52	622 - Lowland Shrub	10.4	No	Unspecified	
53	6239 - Mixed Emergent Wetland	56.9	No	Unspecified	
54	6229 - Mixed lowland shrub	8.9	No	Unspecified	
55	6239 - Mixed Emergent Wetland	60.9	No	Unspecified	
57	6229 - Mixed lowland shrub	119.2	No	Unspecified	There are some scattered pockets of jack pine and red pine in the marsh. They did not meet the mapping standards.
60	629 - Mixed non-forested wetland	13.2	No	Unspecified	
65	622 - Lowland Shrub	10.1	No	Unspecified	