



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41

Entry Year 2016

Acreage: 1,861

County Schoolcraft

Management Area: Hiawatha Moraine

Revision Date: 04/15/2014

Stand Examiner: Adam Petrelius

Legal Description:

T43N R16W Sections 22, 23, 26, 27, and 34

Identified Planning Goals:

This compartment is part of the Hiawatha Moraine Management Area. The main objective in this area are timber harvesting, wildlife management, protecting unique areas, endangered and special concern species, and providing opportunities for forest recreation.

Soil and topography:

The topography in this compartment is slightly rolling to flat and is dominated by aspen and maple cover types. Most of the soil types found within the compartment are Carbondale, Rubicon-Roselawn Sands, and Blue Lake Sands.

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

Private land surrounds this compartment on all four sides. Parcels adjacent to compartment boundaries have both permanent residences and camps present. The former Manistique Township Landfill lies within the compartment and was capped in 2002.

Unique Natural Features:

<<Type or Paste NON-SENSITIVE information here>>

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Parts of the compartment are in a deer wintering area.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Wildlife featured species: Woodcock, ruffed grouse, sharp-tailed grouse and deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel, coarse-textured till and peat and muck. There is up to 200 feet or 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. A gravel pit is located in Section 23 and potential appears to be good on the uplands. There is no commercial oil and gas production in the UP.

Vehicle Access:

Vehicle access is fair within the compartment. Access to the northwest 320 acres and southwest 240 acres is blocked to vehicles by private gates. The eastern boundary of the compartment is State Highway M-94. Dodge Lake Road leads to the access site and permanent residences along the northern boundary. Hiawatha Station Road is a gravel county road which is also snowplowed during the winter months. Most of the woods roads within the compartment are firm and solid, but have grown in.

Survey Needs:

Recreational Facilities and Opportunities:

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:

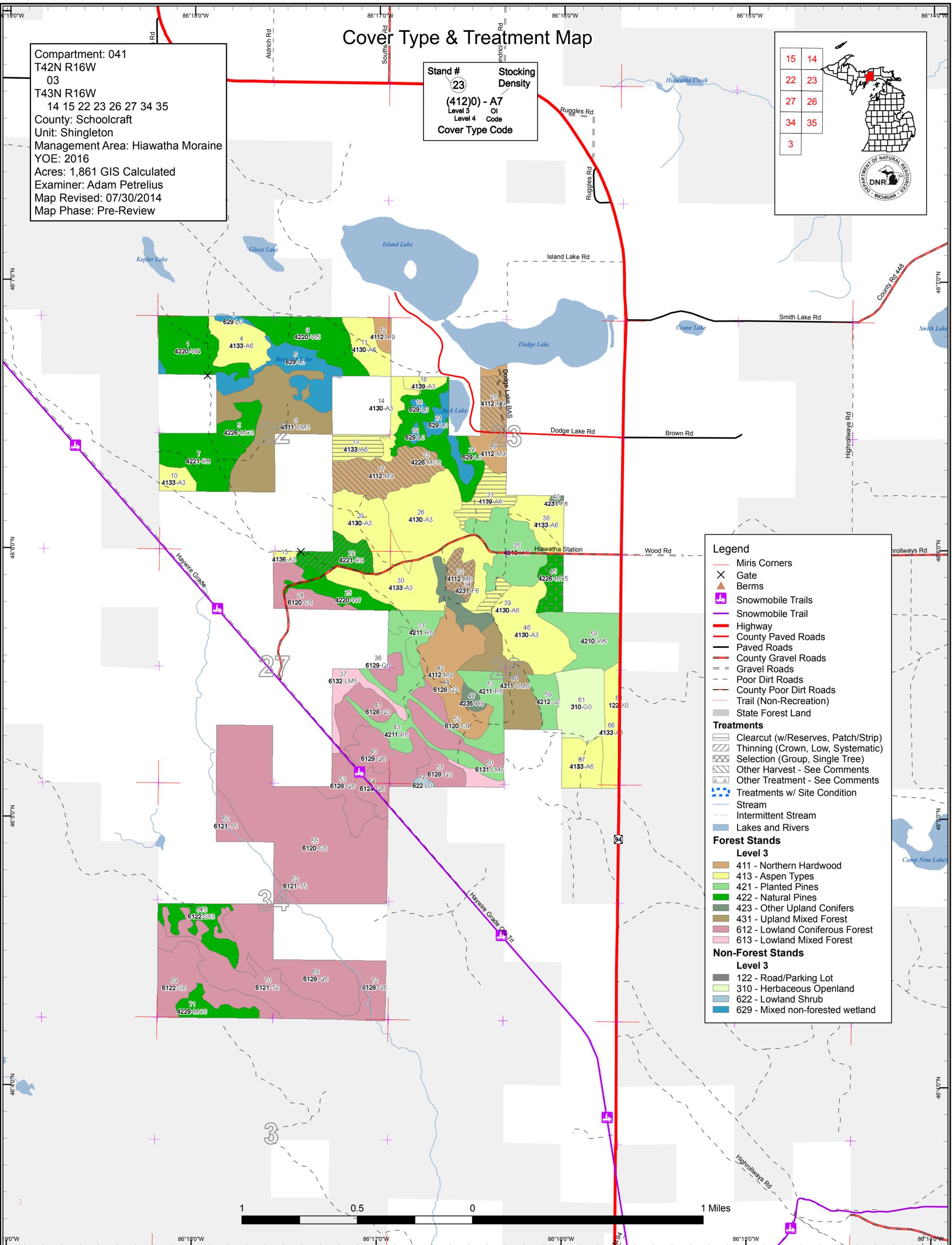
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatment Map

Compartment: 041
 T42N R16W
 03
 T43N R16W
 14 15 22 23 26 27 34 35
 County: Schoolcraft
 Unit: Shingleton
 Management Area: Hiawatha Moraine
 YOE: 2016
 Acres: 1,861 GIS Calculated
 Examiner: Adam Petrelus
 Map Revised: 07/30/2014
 Map Phase: Pre-Review

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

15	14
22	23
27	26
34	35
3	



Legend

- Miris Corners
- Gate
- Berms
- Snowmobile Trails
- Snowmobile Trail
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Other Harvest - See Comments
- Other Treatment - See Comments
- Treatments w/ Site Condition
- Stream
- Intermittent Stream
- Lakes and Rivers

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland



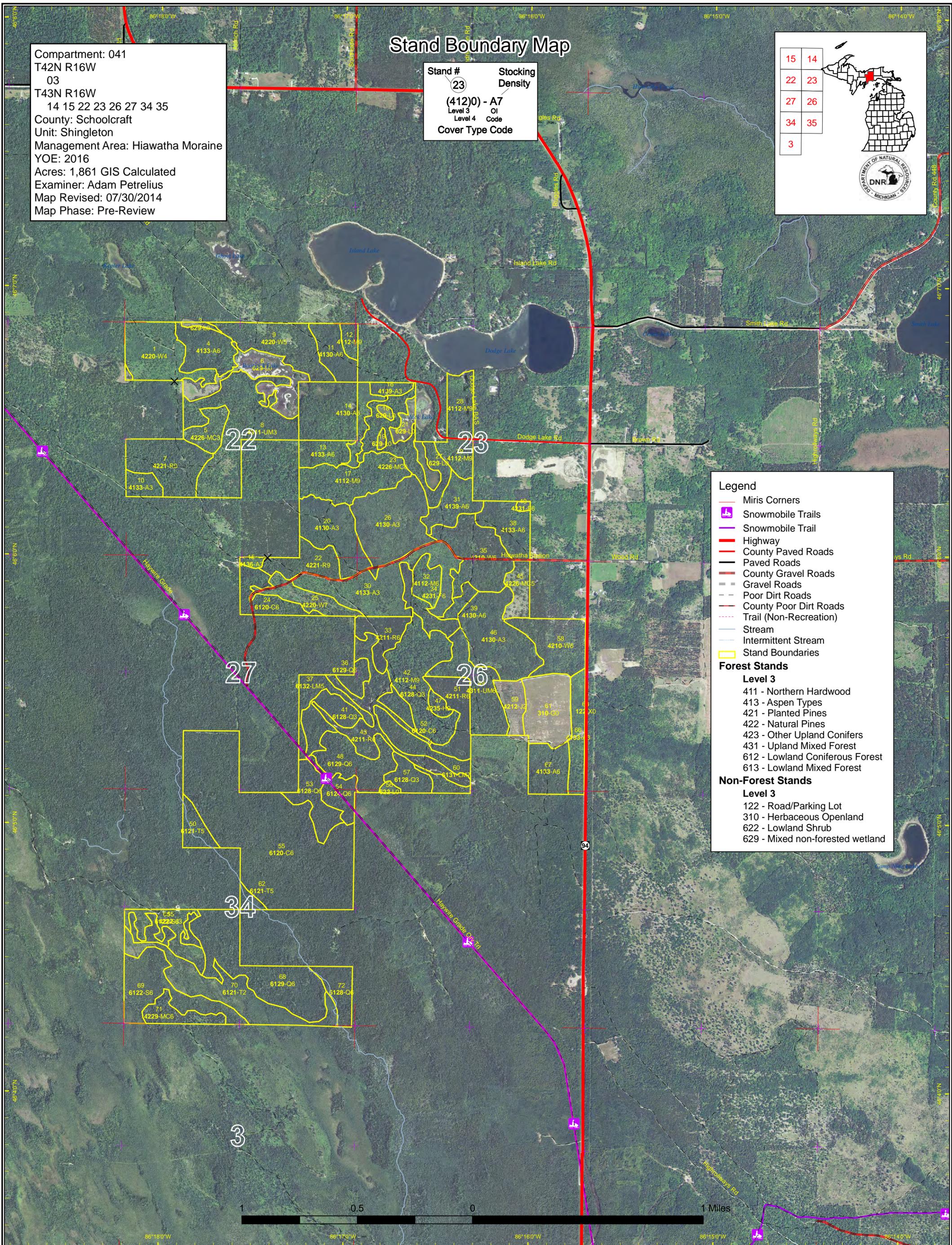
Stand Boundary Map

Compartment: 041
 T42N R16W
 03
 T43N R16W
 14 15 22 23 26 27 34 35
 County: Schoolcraft
 Unit: Shingleton
 Management Area: Hiawatha Moraine
 YOE: 2016
 Acres: 1,861 GIS Calculated
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 Map Revised: 07/30/2014
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Stand # **23** Stocking Density
(412)0 - A7
 Level 3 OI Code
 Level 4 Code
 Cover Type Code

15	14
22	23
27	26
34	35
3	





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
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

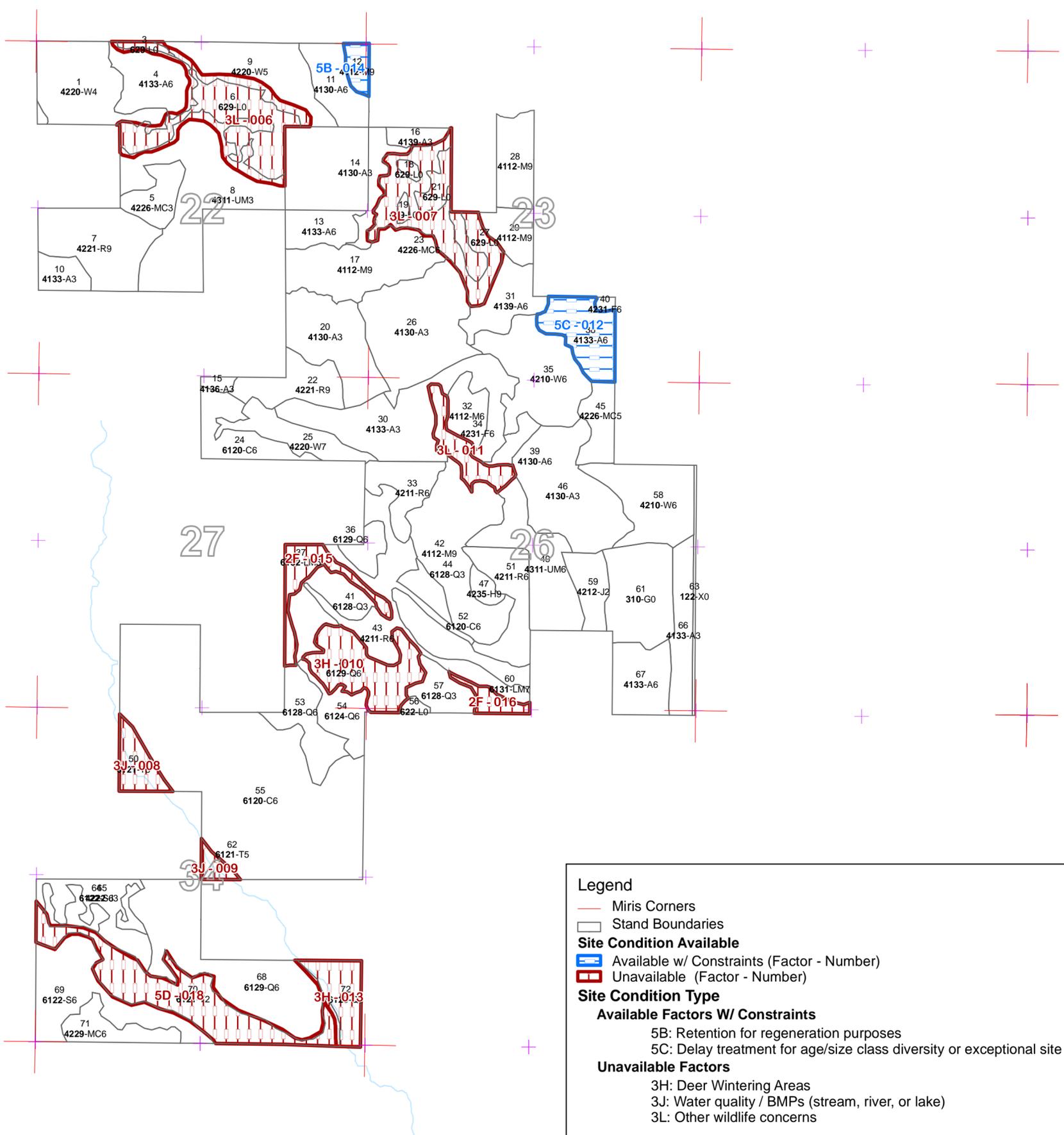
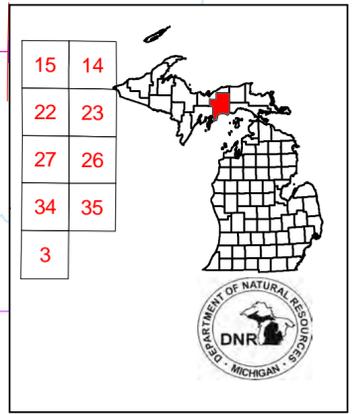
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Special Conservation Areas & Site Conditions Map

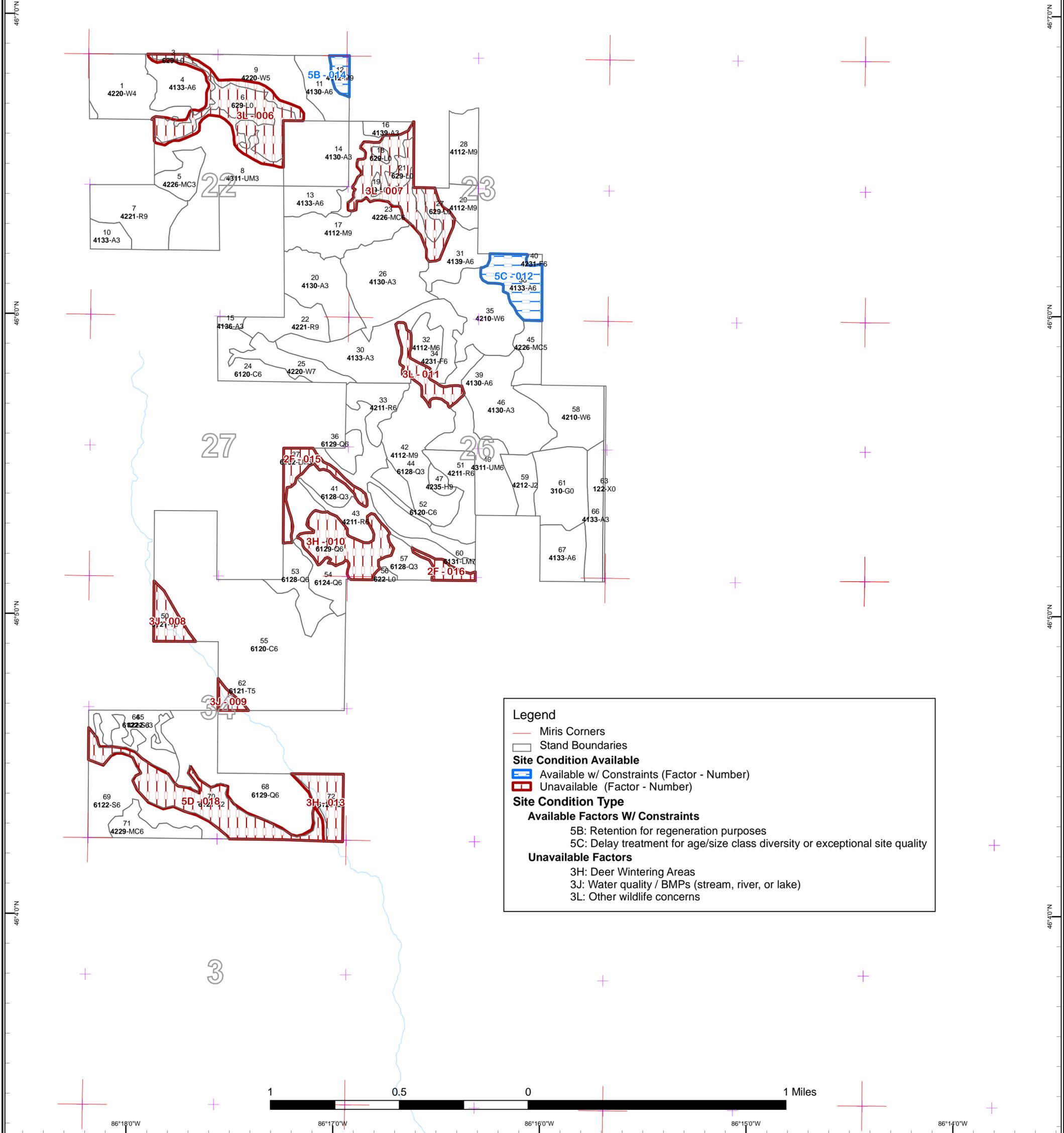
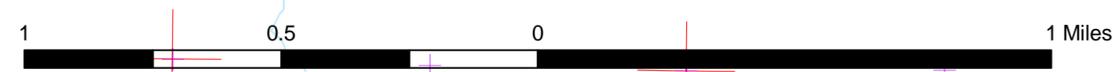
Compartment: 041
 T42N R16W
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 14 15 22 23 26 27 34 35
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 Management Area: Hiawatha Moraine
 YOE: 2016
 Acres: 1,861 GIS Calculated
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 Map Revised: 07/30/2014
 Map Phase: Pre-Review

Stand # 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**
 - 5B: Retention for regeneration purposes
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
 - Unavailable Factors**
 - 3H: Deer Wintering Areas
 - 3J: Water quality / BMPs (stream, river, or lake)
 - 3L: Other wildlife concerns



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	
Aspen	97	49	147	20	73	0	22	0	0	0	0	0	0	0	407
Cedar	0	0	0	0	22	0	0	20	0	198	0	0	0	0	239
Hemlock	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
Herbaceous Openland	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Jack Pine	14	0	23	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Conifers	0	21	39	0	22	0	0	79	35	17	0	0	0	0	213
Lowland Mixed Forest	0	0	0	0	0	0	0	0	23	0	0	0	0	0	23
Lowland Shrub	59	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Spruce/Fir	0	0	0	0	44	0	11	0	0	0	0	0	0	0	55
Natural Mixed Pines	0	0	15	14	0	0	0	0	15	39	0	0	0	0	83
Northern Hardwood	0	0	0	0	0	0	0	0	96	56	0	0	0	0	152
Red Pine	0	0	90	0	0	0	22	42	0	0	0	0	0	0	154
Tamarack	0	0	0	0	54	17	0	0	0	0	0	0	0	0	71
Upland Mixed Forest	0	79	0	0	39	0	0	0	0	0	0	0	0	0	118
Upland Spruce/Fir	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	37	129	0	0	0	20	0	0	0	0	186
Total	211	150	314	34	291	163	55	141	169	334	0	0	0	0	1861



Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2016

Compartment 041
Total Compartment Acres: 1,861

Acres by Treatment Type

Commercial Harvest - 139 Tree Planting - 0 Other - 14
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	42	0	0	0	0	0	42
Natural Pines	0	0	0	0	22	0	22
Northern Hardwood	0	13	0	0	0	62	74
Total	42	13	0	0	22	62	139



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	41041013-Cut	15.3	4133 - Aspen, Mixed Pine	High Density Pole	60		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Harvest all trees except oak and hemlock. Cut hardwood species down to 2 inches.

Specs:

Other Exclude pockets of hemlock which are inoperable for retention.

Comments:

Next Check regeneration next year of entry. Acceptable regeneration is any mixture of the species currently found onsite.

Steps:

Proposed

Start Date: 10/01/2015

17	41041017-Cut	43.7	4112 - Maple, Beech, Cherry Association	High Density Log	80	81-110	Harvest	Other - Specify in Comments	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
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Prescription Remove all beech and ash. Leave some beech that appear to be resistant or are being heavily used by bears.

Specs:

Other Stand is on contract. 41-022-13-01 Beech Sap Slapped

Comments:

Next Check regeneration next year of entry. Any mixture of the current species found onsite is acceptable regeneration. However, an FTP may be

Steps: written to remove beech regeneration in the future if desired.

Proposed

Start Date: 05/11/2014

22	41041022-Cut	22.1	42210 - Natural Red Pine	High Density Log	66	111-140	Harvest	Systematic Thinning	4221 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Harvest all species except hemlock and oak. Mark red pine and white pine in rows where needed for operability. Remove larger high quality red pine logs. Leave basal area as high as possible to shade out aspen.

Specs:

Other

Comments:

Next Evaluate next year of entry for another harvest.

Steps:

Proposed

Start Date: 10/01/2015

28	41041028-Cut	18.0	4112 - Maple, Beech, Cherry Association	High Density Log	80	111-140	Harvest	Other - Specify in Comments	411 - Northern Hardwood	Fld. Tr. Bdy. - Incomplete
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Prescription Harvest all beech and ash. Leave some beech that exhibit signs of resistance or heavy bear use. Mark other areas of stand according to complete marker standards.

Specs:

Other

Comments:

Next Check regeneration next year of entry. Any mixture of the current species found onsite is acceptable regeneration. However, an FTP may be

Steps: written to remove beech regeneration in the future if desired.

Proposed

Start Date: 05/12/2014



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31	41041031-Cut	20.8	4139 - Aspen, Mixed Deciduous	High Density Pole	48	111-140	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Harvest all trees except hemlock and oak. Harvest hardwood down to 2 inches.

Specs:

Other Retention can be left along the hillside sloping down to the pond in the NW of stand. " This final harvest will strive to balance age classes within the MA and create a temporary opening, within a mosaic of opening/forested habitat, which will benefit sharp-tailed grouse and other open-land dependent species.

Comments:

Next Check regeneration next year of entry. Plant oak.

Steps:

Proposed

Start Date: 10/01/2015

32	41041032-Cut	12.8	4112 - Maple, Beech, Cherry Association	High Density Pole	80	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Selection harvest. complete marker standards

Specs:

Other

Comments:

Next Check regeneration next year of entry.

Steps:

Proposed

Start Date: 10/01/2015

39	41041039-Cut	6.2	4130 - Aspen	High Density Pole	60		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Cut all trees except hemlock and oak if any exist onsite. Harvest all hardwood species down to 2 inches.

Specs:

Other Small stand, no retention other than any oak if it exists, submerchantable trees, and snags.

Comments:

Next Check regeneration next year of entry.

Steps:

Proposed

Start Date: 10/01/2015

45	41041045- Other	14.3	42260 - Natural Pine, Mixed Deciduous	Medium Density Pole	38		Other	Other - Specify	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Opening that has been managed by wildlife division over the years. Plant hard or soft mast trees and shrubs or enhance existing ground cover through farming.

Specs:

Other Work will depend in available trees and funding.

Comments:

Next

Steps:

Proposed

Start Date: 06/03/2014

**Total Treatment
Acreage Proposed: 153.2**



S t a n d	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**

Report 5 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment 041
Year of Entry 2016

Availability for Management

Availability for Management			Dominant Site Conditions						
Total Acres	Acres Available	Acres Not Available		No	5C	5B	3L	3J	3H
407	403	4	Aspen	378	25		4		
239	239		Cedar	239					
5	5		Hemlock	5					
38	38		Jack Pine	38					
213	161	52	Lowland Conifers	161					52
23	23		Lowland Mixed Forest	23					
55	55		Lowland Spruce/Fir	55					
83	44	39	Natural Mixed Pines	44			39		
152	152	0	Northern Hardwood	145		6	0		
154	154		Red Pine	154					
71	53	18	Tamarack	53				17	1
118	106	12	Upland Mixed Forest	106			12		
16	2	15	Upland Spruce/Fir	2			15		
186	178	9	White Pine	178			9		
1,759	1,611	149	Total Forested Acres	1,579	25	6	78	17	53
	92%	8%	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
006	Not Available	3L: Other wildlife concerns	64	3D: Recreational / Scenic values			
Comments:							
007	Not Available	3L: Other wildlife concerns	57	3D: Recreational / Scenic values			
Comments:							

Report 5 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment 041
Year of Entry 2016

008	Not Available	3J: Water quality / BMPs (stream, river, or lake)	13		
Comments:					
009	Not Available	3J: Water quality / BMPs (stream, river, or lake)	5		
Comments:					
010	Not Available	3H: Deer Wintering Areas	35		
Comments:					
011	Not Available	3L: Other wildlife concerns	15		
Comments: Stand is a white spruce plantation amongst variable aged aspen harvests. It provides excellent diversity in the area and should not be harvested. It is still healthy and growing well.					
012	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25		
Comments:					
013	Not Available	3H: Deer Wintering Areas	19		
Comments:					

Report 5 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment 041
Year of Entry 2016

014	Available	5B: Maintain for regeneration purposes	6
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Comments:

let small amount of beech die. hardwood understory should fill in gaps

015	Not Available	2F: Too steep	16	3H: Deer Wintering Areas
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Comments:

016	Not Available	2F: Too steep	7	3H: Deer Wintering Areas
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Comments:

018	Not Available	5D: Unproductive Forest Land	54
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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
Comments				



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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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	Shingleton Mgt. Unit		Report 8 – Forested Stands			Compartment: 041 Year of Entry: 2016
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42200 - Natural White Pine	Low Density Pole	42.2	50	1-50	Stand was harvested with sale 20-06, Dump buffer December 2007. TSI completed under FTP 41-1287. The SW corner was previously a red pine stand and was planted with inmates. It now looks very similar to this stand and was combined in inventory. Red pine planted did survive and is a component of the stand.
4	4133 - Aspen, Mixed Pine	High Density Pole	26.5	40		
5	42260 - Natural Pine, Mixed Deciduous	High Density Sapling	14.5	22		
7	42210 - Natural Red Pine	High Density Log	41.6	73	51-80	Stand was thinned between 1993 and 1997.
8	4311 - Pine, Aspen Mix	High Density Sapling	79.0	16		Stand was cut under sale 41-068-96-01 in 1997. TSI work occurred in 2000.
9	42200 - Natural White Pine	Medium Density Pole	41.6	50	1-50	Stand was cut in summer of 2000. TSI work was completed also.
10	4133 - Aspen, Mixed Pine	High Density Sapling	9.7	16		Stand was cut in 1997, sale 41-068-96-01
11	4130 - Aspen	High Density Pole	19.8	34		
12	4112 - Maple, Beech, Cherry Association	High Density Log	6.3	80	111-140	Stand was thinned in 1986.
13	4133 - Aspen, Mixed Pine	High Density Pole	15.3	60		
14	4130 - Aspen	High Density Sapling	11.9	5		Stand was cut with sale 20-06 Dump buffer. Residual basal area was 4 ft hemlock. TSI was completed in 2008 under FTP 1287.
15	4136 - Aspen, Mixed Conifer	High Density Sapling	2.6	23		
16	4139 - Aspen, Mixed Deciduous	High Density Sapling	6.1	24		
17	4112 - Maple, Beech, Cherry Association	High Density Log	43.7	80	81-110	Stand was thinned in spring 2001. It is now on proposal for beech salvage, Beech Slapped Sale. Residual basal areas from cruise were hemlock 1ft, yellow birch 5 ft, hard maple 16 ft, red maple 22 ft, aspen 1ft, paper birch 3 ft, beech 1 ft.
20	4130 - Aspen	High Density Sapling	39.6	14		
22	42210 - Natural Red Pine	High Density Log	22.1	66	111-140	

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Shingleton Mgt. Unit

Report 8 – Forested Stands

Compartment: 041
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	42260 - Natural Pine, Mixed Deciduous	High Density Pole	39.1	90	81-110	
24	6120 - Lowland Cedar	High Density Pole	21.8	47		
25	42200 - Natural White Pine	Low Density Log	20.0	90	1-50	Stand was cut in February 2008, dump buffer sale 20-06. Residual basal areas from cruise were hemlock 4ft, cedar 4ft, white pine 22ft, red pine 12 ft, overall 42
26	4130 - Aspen	High Density Sapling	59.9	23		
28	4112 - Maple, Beech, Cherry Association	High Density Log	20.3	80	111-140	Stand is on proposal for beech salvage, Beech Slapped Sale, 41- 022-13. Basal areas from cruise were 3 ft hemlock, 3 ft yellow birch, 28 ft hard maple, 12 ft red maple, 2 ft aspen, 3 ft white pine, 10 ft cherry, 61 total.
29	4112 - Maple, Beech, Cherry Association	High Density Log	13.0	80	81-110	Thinned in 1986
30	4133 - Aspen, Mixed Pine	High Density Sapling	63.1	5		Stand was harvested in January 2008 with the Dump buffer Sale, 20-06. Residuals were 2 ft hemlock, 5 ft white pine, 5 ft red pine. TSI work was completed also under FTP W41-1287
31	4139 - Aspen, Mixed Deciduous	High Density Pole	20.8	48	111-140	Appears that this stand had patch clearcuts throughout the past and contains aspen of variable sizes.
32	4112 - Maple, Beech, Cherry Association	High Density Pole	12.8	80	111-140	Stand was thinned in 1986.
33	42110 - Planted Red Pine	High Density Pole	18.9	25	1-50	
34	42310 - Planted Spruce	High Density Pole	14.7	53		Stand provides good diversity for wildlife amongst an assortment of younger aspen stands.
35	42100 - Planted White Pine	High Density Pole	45.7	53	111-140	
36	6129 - Mixed Coniferous Lowland Forest	High Density Pole	8.2	70		cedar was left previous harvest
37	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	16.1	80		
38	4133 - Aspen, Mixed Pine	High Density Pole	25.2	48		possibly ready for harvest next YOE
39	4130 - Aspen	High Density Pole	6.2	60		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	42310 - Planted Spruce	High Density Pole	1.5	51		
41	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	22.8	23		
42	4112 - Maple, Beech, Cherry Association	High Density Log	55.8	90	81-110	NE portion of stand was thinned in November 2007, Dump Buffer Sale, 20-06. Residual basal areas were 65 red maple, 15 sugar maple
43	42110 - Planted Red Pine	High Density Pole	46.1	20	1-50	
44	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	7.8	18		
45	42260 - Natural Pine, Mixed Deciduous	Medium Density Pole	14.3	38		Some kind of unique habitat work occurred here past. Mounds were created throughout the stand and aspen is growing on top of those mounds.
46	4130 - Aspen	High Density Sapling	55.0	27		
47	42350 - Upland Hemlock	High Density Log	4.7	90		
48	6129 - Mixed Coniferous Lowland Forest	High Density Pole	34.5	80		
49	4311 - Pine, Aspen Mix	High Density Pole	38.8	44		
50	6121 - Tamarack	Medium Density Pole	12.6	50		
51	42110 - Planted Red Pine	High Density Pole	25.0	25	1-50	
52	6120 - Lowland Cedar	High Density Pole	19.9	70		
53	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	22.3	40		
54	6124 - Lowland Spruce- Fir	High Density Pole	15.9	25		
55	6120 - Lowland Cedar	High Density Pole	197.6	90		68 cruise plots were placed in this stand before it was purchased from Plum Creek. Roughly 75 % of the volume was cedar.



Stand	Shingleton Mgt. Unit		Report 8 – Forested Stands			Compartment: 041 Year of Entry: 2016	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
57	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	13.4	18			
58	42100 - Planted White Pine	High Density Pole	37.0	46	81-110		
59	42120 - Planted Jack Pine	Medium Density	14.4	6		<p>In summer of 2002 the city of Manistique through a long mitigation process hired a contractor to cap the landfill, Bitner Engineering was the final company to oversee the capping. In a letter dated 8/27/2001, Jeff Stampfly wrote a change in Prescription letter to the other co-managers to inform everyone of the closure and that it was agreed to jointly with wildlife division that once closure was complete native grasses would be established on site and it would be a long term seed orchard. Also as part of the mitigation a borrow pit for sand was needed and this stand was the best possible place for such sand, this was agreed to and part of Stampfly's letter. It was concluded that once the borrow pit was complete it would be planted to jack pine. Stand was planted to jack pine in May 2004. 2005 regen count was - 676 jack pine, lots of deer browse. 2007 count was 162 jack pine. Planted again in 2007 with 11,500 more trees. 2008 count was 581 jack pine. 2010 count was 646 jack pine.</p>	
60	6131 - Hemlock, White Pine, Maple, Birch	Low Density Log	6.6	80			
62	6121 - Tamarack	Medium Density Pole	4.6	50			
64	6122 - Black Spruce	High Density Pole	11.2	69			
65	42220 - Natural Jack Pine	High Density Sapling	23.2	23			
66	4133 - Aspen, Mixed Pine	High Density Sapling	21.5	5		<p>Stand was cut in spring 2008, Dump Buffer Sale - 20-06. Residual basal areas from cruise were 5 ft oak, 4 ft red pine, 6 ft white pine. TSI work was completed under FTP W41-1287 in fall 2008.</p>	
67	4133 - Aspen, Mixed Pine	High Density Pole	23.9	27			
68	6129 - Mixed Coniferous Lowland Forest	High Density Pole	71.0	70		ridges are younger and were cut in past.	
69	6122 - Black Spruce	High Density Pole	44.0	43		jp ridges present	
70	6121 - Tamarack	Medium Density	54.2	40			
71	42290 - Natural Mixed Pine	High Density Pole	15.5	81	51-80	<p>6 acres on the SW side of this stand was set up and on proposal 41-015-11-01, Oversize snowmachine. Residual basal areas from cruise were 13 ft red pine, 11 ft white pine.</p>	

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Shingleton Mgt. Unit

Report 8 – Forested Stands

Compartment: 041
Year of Entry: 2016



General
Comments:

72

6128 - Lowland
Coniferous, Mixed
Deciduous

High Density
Pole

17.0

92



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	629 - Mixed non-forested wetland	0.8	Unspecified	Unspecified	
3	629 - Mixed non-forested wetland	2.0	Unspecified	Unspecified	
6	629 - Mixed non-forested wetland	37.6	Unspecified	Unspecified	
18	629 - Mixed non-forested wetland	1.9	Unspecified	Unspecified	
19	629 - Mixed non-forested wetland	1.7	Unspecified	Unspecified	
21	629 - Mixed non-forested wetland	7.2	Unspecified	Unspecified	
27	629 - Mixed non-forested wetland	5.9	Unspecified	Unspecified	
56	622 - Lowland Shrub	2.0	Unspecified	Unspecified	
61	310 - Herbaceous Openland	37.9	Unspecified	Unspecified	
63	122 - Road/Parking Lot	3.5	Unspecified	Unspecified	