

## **Compartment Review Presentation**

#### **Shingleton Forest Management Unit**

Compartment 68
Entry Year 2016
Acreage: 1,648

County Schoolcraft

Management Area: Milakokia Lake

Revision Date: 07/31/2014

Stand Examiner: Tom Burnis

**Legal Description:** 

T42N R14W Sections 2,3,10,11,14-17,20,21,29,30 T42N R15W Section 36

## **Identified Planning Goals:**

The main goal of this compartment is to conduct multiple resource management for current and future generations.

### Soil and topography:

The topography is mostly flat consisting of swamp conifers with a limited amount of aspen and hardwoods. The majority of the acreage lies within the Milakokia Limestone Outcrop Land Type Association.

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

This compartment is 6 miles long and 6 miles wide of non-contiguous state land, broken by private and corporate lands. Development consists of permanent dwellings and hunting camps. Hunting is the main use within the compartment and the snow machine trail runs through part of this compartment.

### **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:**

This is a traditional deer yarding area.

#### Watershed and Fisheries Considerations:

Poor. Merwin Lake is a shallow lake and is not actively managed by Fisheries Division.

#### Wildlife Habitat Considerations:

Wildlife featured species: Woodcock, blackburnian warbler, red-shouldered hawk and deer. This compartment lies northeast of Manistique and contains Merwin Lake. The compartment is a composite of lowland coniferous swamps and upland deciduous forests. State land ownership is broken with substantial acres of private property intermixed. General land office survey notes show that in the 1850s, lowlands were dominated by cedar, spruce, and tamarack. The upland forests in sections 10,11,14,15 consisted primarily of aspen and birch while the upland forest near Merwin Lake supported sugar maple, beech, yellow birch, hemlock, and balsam fir.

#### Mineral Resource and Development Concerns and/or Restrictions

Sects. 2, 3,10,11,14-17,20 & 21, T42N-R14W, Schoolcraft Co.

Surface sediments consist of peat and muck sometimes thin to discontinuous over bedrock. The glacial drift thickness varies between 0 and 10 feet. The Silurian Burnt Bluff and Manistique Groups subcrop below the glacial drift. The Burnt Bluff is quarried for stone in the UP. Gravel pits are located in this area and potential might be good in places. There is no commercial oil and gas production in the UP.

#### **Vehicle Access:**

County roads run throughout this compartment, however, vehicle access into the actual state land is limited due to the fact that most of the area is cedar swamp.

#### **Survey Needs:**

Survey corners will need to be determined in the following areas: T42N R14W sec 10 SWSE, sec 11 SWSE, sec 15 center, sec21 center. T42N R15W sec 36 NWNE.

Also, an existing monument located T42N R14W common to sections 9,10,15,16 appears to be wrong.

## **Recreational Facilities and Opportunities:**

There are no facilities. Opportunities include hunting and snowmobiling.

#### **Fire Protection:**

Fire potential is generally low throughout the compartment however, a fire start in the lowland areas would be extremely difficult to access but not likely to grow to significant size.

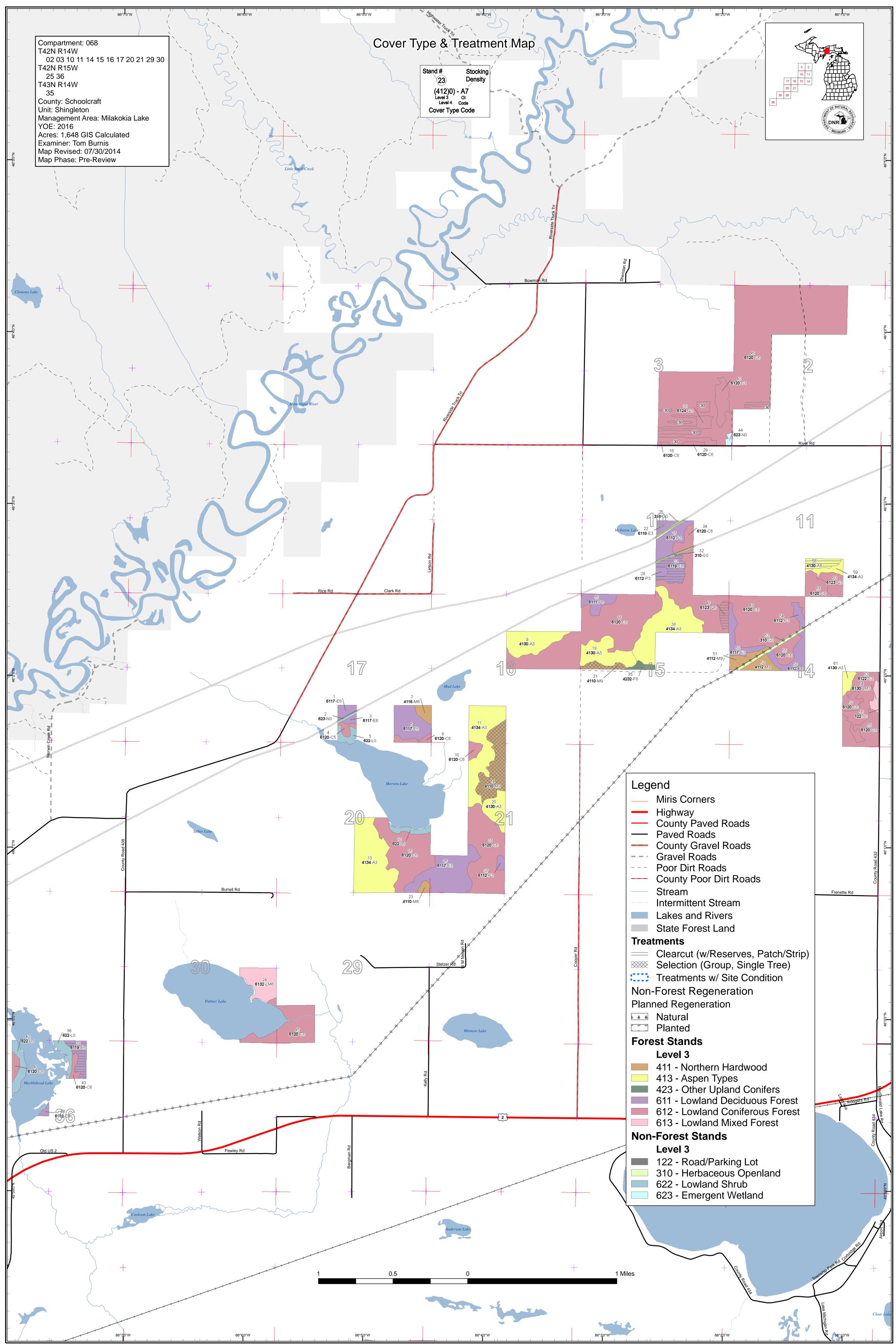
### **Additional Compartment Information:**

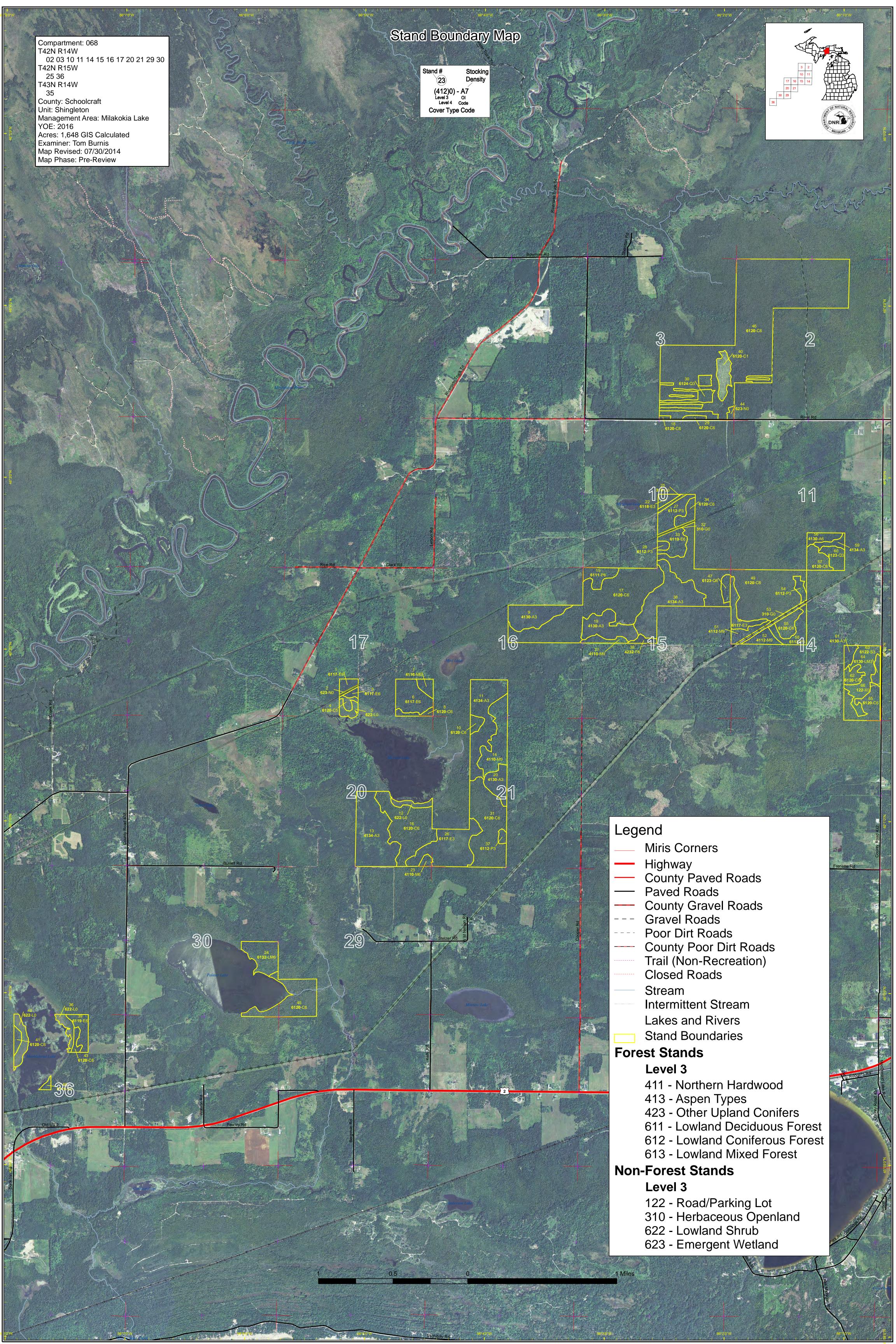
The following reports from the Inventory are attached:

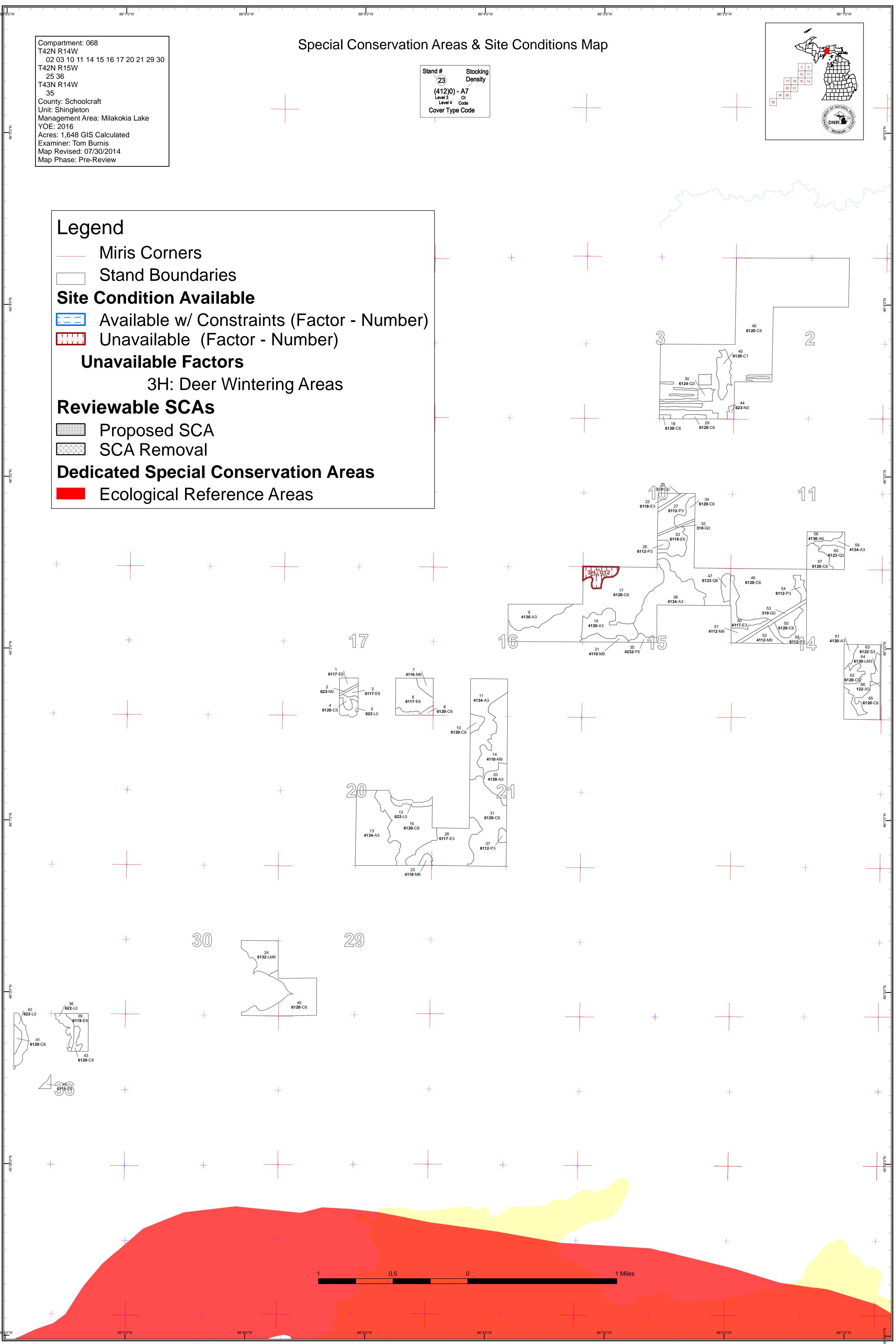
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







# Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit

Tom Burnis: Examiner

Compartment 068 Year of Entry 2016



Age Class																
		8.0	0,70	Pr. S.	S. S	AD AS	\$5.	8,7	10° /	80° 6	85.00	on on one	\$7.00,	No. No.	A A	, do la
Aspen	0	71	163	44	0	9	0	0	0	0	0	0	0	0	287	
Cedar	15	0	0	0	0	0	0	5	143	48	9	696	0	0	916	
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
Lowland Aspen/Balsam Poplar	0	5	25	16	0	0	0	14	0	0	0	0	0	0	60	
Lowland Conifers	0	0	0	45	0	7	0	0	0	0	0	0	0	0	52	
Lowland Deciduous	0	14	58	37	0	0	0	15	17	0	0	0	0	0	141	
Lowland Mixed Forest	0	0	0	5	0	0	0	26	0	0	0	0	0	0	32	
Lowland Shrub	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32	
Lowland Spruce/Fir	0	0	0	32	0	0	0	0	0	0	0	0	0	0	32	
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Northern Hardwood	0	0	0	0	0	0	0	0	0	75	0	0	0	0	75	
Upland Spruce/Fir	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Total	64	91	246	179	4	16	0	60	159	123	9	696	0	0	1648	



# **Report 2 – Proposed Treatment Summaries**

Shingleton Mgt. Unit Year of Entry 2016

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**Acres by Treatment Type** 

Commercial Harvest - 95

Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

		Cover Type by Harvest Method									
				in of	No. of	oo oo	OK OK		S. A.		
Aspen Types		9	0	0	0	0	0	9			
Lowland Coniferous Forest		7	0	0	0	0	0	7			
Lowland Deciduous Forest		30	0	0	0	0	0	30			
Northern Hardwood		0	46	0	0	0	0	46			
Other Upland Conifers	<u>'</u>	4	0	0	0	0	0	4			
	Total	49	46	0	0	0	0	95			

Compartment 068

**Total Compartment Acres: 1,648** 

Compartment: 068 Shingleton Mgt. Unit Report 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2016 S t а Treatment Size Stand ВА Treatment Treatment **Approval** Acres CoverType **Cover Type** n d Name Density Age Range Type Method Objective Status 41068014-Cut 38.7 4110 - Sugar Maple High 93 111-140 Harvest Single Tree 411 - Northern Cmpt. Review Selection Hardwood Proposal Association **Density Log** Prescription Mark Stand to cut leaving 70sqft B.A.Make larger than normal regeneration holes in canopy. Specs: <u>Other</u> Evidence of heavy deer browsing on regeneration. Larger regen holes in canopy are for the purpose of overwhelming deer with regen throughout Comments: the stand. Cut stand in winter. Monitor the success of regeneration the next treatment period. Acceptable regeneration mix of current species. Next Steps: Proposed 10/27/2014 Start Date: 41068021-Cut 7.2 4110 - Sugar Maple High 93 111-140 Harvest Single Tree 411 - Northern Cmpt. Review Association **Density Log** Selection Hardwood Proposal Prescription Mark stand to cut reducing to 80sgft B.A. Create large canopy gaps. Specs: Cut stand in winter. Other\_ Comments: Monitor the success of regeneration the next treatment period. Acceptable regen mix of current species. <u>Next</u> Steps: **Proposed** 10/27/2014 Start Date: 41068033-Cut 16.6 6119 - Mixed High 80 Harvest Clearcut with 6119 - Mixed Cmpt. Review 33 **Lowland Deciduous** Density Reserves **Lowland Deciduous** Proposal Forest Pole Forest Prescription Clearcut stand leaving all cedar and yellow birch. Specs: Other Cut in winter to protect soft soils and feed deer. Comments:

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

Next Steps:

**Proposed** 

10/01/2015 Start Date:

35 41068035-Cut 4.3 42320 - Upland High 48 Harvest Clearcut with 42320 - Upland Cmpt. Review Spruce Spruce Density Reserves Proposal Pole

Prescription Clearcut stand. Leave most large white pine. Exclude area of smaller tamarack on east end of stand.

Specs:

Other Comments:

Monitor the success of regeneration. Acceptable regen mix of current species. <u>Next</u>

Steps:

**Proposed** 

10/01/2015 Start Date:

Compartment: 068 Report 3 -- Treatments Prescribed Shingleton Mgt. Unit Year of Entry 2016 with No Limiting Factor s t а CoverType Treatment Acres Size Stand ВА Treatment Treatment **Cover Type Approval** n d Name Density Age Range Туре Method Objective Status 39 41068039-Cut 13.0 6119 - Mixed High 78 Harvest Clearcut with 6119 - Mixed Cmpt. Review **Lowland Deciduous** Density Reserves **Lowland Deciduous** Proposal Forest Pole Forest Prescription Cut all trees except cedar. Specs: Other\_ Cut in winter. Comments: Next Monitor for success of regeneration. Acceptable regeneration mix of current species. Steps: **Proposed** 10/01/2015 Start Date: 41068047-Cut 6.5 6123 - Lowland Fir 58 Harvest Clearcut 310 - Herbaceous Cmpt. Review High 47 Density Openland Proposal Pole Prescription Clearcut stand. No retention because stand is to be maintained as wildlife opening. Specs: Maintain as wildlife opening. Other Comments: Rx Burn **Next** Steps: **Proposed** Start Date: 10/01/2015 56 41068056-Cut 9.1 4130 - Aspen High 58 Harvest Clearcut 4130 - Aspen Cmpt. Review Density Proposal Pole Prescription Clearcut stand. No retention due to small acreage. Specs: Cut in winter. Observed active raven nest, follow guidlines. <u>Other</u> Comments:

Total Treatment

Next Steps: Proposed

Start Date:

Acreage Proposed: 95.3

10/01/2015

Monitor for success of regeneration. Acceptable regen mix of current species.

S t		Shingleto	on Mgt. Unit	Report 4		eatment Site Con	Compartment: 068 Year of Entry 2016	DNR MICHIGAN		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							
Presc Specs										
Other Comm										
<u>Next</u> Steps	<u>:</u>									
Propo Start I										

Total Treatment

Limiting Factor

Acreage Proposed: 0.0

# **Report 5 – Site Conditions**

Shingleton Mgt. Unit

Tom Burnis: Examiner

Compartment 068
Year of Entry 2016

## **Availability for Management**

Total	Acres	Acres	D	omina	nt Site	<b>Conditions</b>
Acres	Available	Not Available		No	ЗН	
287	287		Aspen	287		
915	915		Cedar	915		
60	46	14	Lowland Aspen/Balsam Poplar	46	14	
52	52		Lowland Conifers	52		
141	141		Lowland Deciduous	141		
32	32		Lowland Mixed Forest	32		
32	32		Lowland Spruce/Fir	32		
75	75		Northern Hardwood	75		
4	4		Upland Spruce/Fir	4		
1,598	1,584	14	Total Forested Acres	1,584	14	
	99%	1%	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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
012	Not Available	3H: Deer Wintering Areas	14				
	Comments:						

Shingleton Mgt. Unit

Compartment: 068 Year of Entry: 2016



# 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				

Shingleton Mgt. Unit Compartment: 068
Year of Entry 2016



## 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.

Conservation Area	Туре	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Habitat Area	and Waterfowl Production Areas, deer wintering co- openings and savannas. Habitat areas are distinct t	from critical habitat designated for recovery of d's warbler or piping plover areas) in that they are more threatened or endangered species, and are not

s t	Shingleton	n Mgt. Unit		Report 8	– Forested	Stands Compartment: 068 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	5.7	37		
3	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	2.7	37		
4	6120 - Lowland Cedar	Medium Density Pole	4.1	86		poor quality declining cedar.
6	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	28.3	37		
7	4116 - Mixed N. Hardwood - Aspen	High Density Pole	6.5	93	81-110	Mixed stand of hardwood and aspen. hardwood is mostly red maple. Stand is too small and of low quality to manage as hardwood thinning on it's own.
8	6120 - Lowland Cedar	High Density Pole	5.2	110		
9	4130 - Aspen	High Density Sapling	31.8	30		
10	6120 - Lowland Cedar	High Density Pole	5.3	70		
11	4134 - Aspen, Spruce/Fir	High Density Sapling	55.6	27		
13	4134 - Aspen, Spruce/Fir	High Density Sapling	71.1	12		WINTER CUTTING, LEAVE SOME LARGE ASPEN TREES ALONG THE EDGES Unit 1 cut winters of 1998&1999 Unit 2 cut winter 2001. Merwin Lake Aspen Sale no TSI needed
14	4110 - Sugar Maple Association	High Density Log	38.7	93	111-140	Existing understory is heavily browsed.
15	6111 - Lowland Balsam Poplar	High Density Pole	13.6	78		Stand was set up for harvest in 1996, but was not cut due to the amount of cedar and location to deer yard. Much of the aspen and bam are dead. [2003]
						[2013] Larger trees have continued to die and decline. Stand is naturally regenerating with advanced regen of Aspen, Bam, Black ash, and elm present. These trees are 2"-3" diameter and 30' tall which make them part of the canopy.
16	6120 - Lowland Cedar	High Density Pole	65.0	86		
17	6120 - Lowland Cedar	High Density Pole	133.8	110		
18	6120 - Lowland Cedar	High Density Pole	1.3	117		

s t	Shingletor	n Mgt. Unit		Report 8	– Forested	Stands Compartment: 068 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4130 - Aspen	High Density Sapling	30.8	23		
20	4130 - Aspen	High Density Sapling	17.5	22		
21	4110 - Sugar Maple Association	High Density Log	7.2	93	111-140	Evidence of heavy browsing.
22	6118 - Lowland Deciduous with Cedar	High Density Sapling	5.1	23		
23	4110 - Sugar Maple Association	High Density Pole	3.4	93	111-140	
24	6132 - Mixed Lowland Forest with Cedar	High Density Pole	26.3	70		Stand is a new addition to compartment since last inventory. From the photo, the stand appears to be mostly low ground with a few small high spots of hardwoods. There is no good access to this stand.
26	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	53.2	23		
27	6112 - Lowland Aspen	High Density Sapling	18.7	23		
28	6112 - Lowland Aspen	High Density Sapling	2.9	23		
29	6120 - Lowland Cedar	High Density Pole	2.8	117		
30	6124 - Lowland Spruce- Fir	High Density Sapling	33.0	34		
31	6120 - Lowland Cedar	High Density Pole	73.5	86		
33	6119 - Mixed Lowland Deciduous Forest	High Density Pole	16.6	80		Much of the stand could last another entry but the aspen is declining. Harvest now so as not to loose the aspen component.
34	6120 - Lowland Cedar	High Density Pole	8.7	110		
35	42320 - Upland Spruce	High Density Pole	4.3	48		Stand is fairly young but of merchantable size. Want to harvest now with stands 21 and 50 due to small acreage and volume of these stands individually.
37	6112 - Lowland Aspen	High Density Sapling	3.0	22		
38	4134 - Aspen, Spruce/Fir	High Density Sapling	59.3	27		

s t	Shingleto	n Mgt. Unit		Report 8	– Forested	Stands Compartment: 068 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	6119 - Mixed Lowland Deciduous Forest	High Density Pole	13.0	78		Aspen and white birch are over mature. Ash susceptable to EAB. Harvest stand if access can be gained.
40	6120 - Lowland Cedar	Low Density Sapling	14.8	5		[6/9/2008 BB] Sale is now closed, cut spring 2008. TCR Date is 5/6/2008. Walk through regen survey will be conducted in 2012
						[11/14/13 TB] Walk Through Regen Check shows cedar-1980 T/A, B. Sp1100 T/A, Fir-110 T/A, tam-110 T/A. Variation in tree heights make regen look patchy at a glance but there is good spruce and cedar.
41	6120 - Lowland Cedar	High Density Pole	4.5	107		
43	6120 - Lowland Cedar	High Density Pole	4.1	107		
45	6120 - Lowland Cedar	High Density Pole	46.1	110		Stand is a new addition to the compartment since the previous inventory.
46	6120 - Lowland Cedar	High Density Pole	344.6	117		
47	6123 - Lowland Fir	High Density Pole	6.5	58		Stand is fairly young but of merchantable size. Want to harvest now with stands 21 and 39 due to small acreage and volume of these stands individually.
48	6119 - Mixed Lowland Deciduous Forest	High Density Pole	2.2	78		
<b>49</b>	6120 - Lowland Cedar	High Density Pole	141.3	110		
50	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	14.2	18		
51	4112 - Maple, Beech, Cherry Association	High Density Log	9.0	93	51-80	Stand is currently under contract to be cut. Set up out of entry for beach salvage.
						BA showen is current but after cut BA will be: HM-64, YB-6, Beech-1, Fir- 1. Total residule = 72.
						Stand has been select cut in 1982 and 1993.
						Stand harvested with Cooper Beech Sale winter of 2014.
<del></del> 52	4112 - Maple, Beech, Cherry Association	High Density Log	10.0	93	51-80	Stand currently under contract to be cut. Set up out of entry for beech salvage.
						BA showen is current but after cut BA will be: HM-64, YB-6, Beech-1, Fir- 1. Total residule = 72.
						Stand has been select cut in 1982 and 1993.
						Stand harvested with Cooper Beech Sale winter of 2014.

s t	Shingletor	Mgt. Unit		Report 8	- Forested Stands	Compartment: 068 Year of Entry: 2016	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .
54	6112 - Lowland Aspen	High Density Sapling	5.4	18			
55	6120 - Lowland Cedar	High Density Pole	12.5	110			
56	4130 - Aspen	High Density Pole	9.1	58		Need survey work	
57	6120 - Lowland Cedar	High Density Pole	13.7	93			
58	6112 - Lowland Aspen	High Density Sapling	16.5	31			
59	4134 - Aspen, Spruce/Fir	High Density Sapling	6.0	32			
60	6123 - Lowland Fir	High Density Sapling	12.1	30			
61	4130 - Aspen	High Density Sapling	6.2	32			
62	6120 - Lowland Cedar	High Density Pole	8.4	94			
63	6122 - Black Spruce	High Density Sapling	31.9	38			
64	6130 - Fir, Aspen, Maple	High Density Sapling	5.3	36			
65	6120 - Lowland Cedar	High Density Pole	25.9	94			

# Report 9 – Nonforested Stands

Compartment: 068 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	CHIGA
2	623 - Emergent Wetland	1.3	Unspecified	Unspecified		
5	6229 - Mixed lowland shrub	6.3	Unspecified	Unspecified		
12	6229 - Mixed lowland shrub	6.1	Unspecified	Unspecified		
25	3102 - Grass	2.7	Unspecified	Unspecified		
32	3102 - Grass	2.3	Unspecified	Unspecified		
36	6229 - Mixed lowland shrub	8.0	Unspecified	Unspecified		
42	6229 - Mixed lowland shrub	11.5	Unspecified	Unspecified		
44	623 - Emergent Wetland	2.3	Unspecified	Unspecified		
53	3102 - Grass	7.2	Unspecified	Unspecified		
66	122 - Road/Parking Lot	1.9	Unspecified	Unspecified		