

Shingleton Forest Management Unit Compartment Review Presentation

Compartment 66 Entry Year: 2014
Compartment Acreage: 1575 County: Schoolcraft

Revision Date: 8/6/2012

Stand Examiner: Tom Burnis

Legal Description: T41N R13W Sections 4,5,7,8,9; T42N R13W Section 32

RMU (if applicable): Compartment 66 lies within Lake Michigan Shoreline Management Area.

Management Goals: The main goal in this compartment is to conduct sound multiple resource management for the good of the citizens of the State of Michigan

Soil and Topography: The soils data in this are is very limited, the upland ridges are well drained sands the lower types are unknown. The northern portion of the compartment lies within the Buried Moraine Land Type Association (LTA) and the southern portion lies within the Lake Beds LTA. The topography throughout the area was cast by glacial movements.

Ownership Patterns, Development, and Land Use in and Around the Compartment: McDonald Lake is built up with both summer and year round homes. The compartment is contiguous to the south and has small non-contiguous state acreage along east side of McDonald Lake. Land use in the area is very limited.

Unique, Natural Features: Currently under review by Michigan Natural Features Inventory.

Archeological, Historical, and Cultural Features: None Known.

Special Management Designations or Considerations: All of sections 7, 8 and west part of 9 are part of a Wooden Dune and Swale Ecological Reference Area. In addition, a large portion of the compartment is within the Critical Dunes HCVA and a Deer Wintering Complex SCA.

Watershed and Fisheries Considerations: Fisheries Values Good. McDonald Lake is good for largemouth bass, bluegills, pike, walleyes, and some perch. Bulldog Creek, which drains McDonald Lake, is classified SQWW. Fisheries Concerns in General: Streams are classified from First Quality Cold Water (FQCW) down to Second Quality Warm Water (SQWW). In this area, the FQCW means an excellent trout fishery, one that is supplemented by a Fisheries Division annual stocking program. These waters are generally the famous ones, but also include somewhat smaller waters that are capable of supporting the fish population density necessary to provide a superior angling experience. SQCW implies a cold stream that supports a natural trout population, but is limited by either physical size or lack of spawning/foraging habitat. Its limitations mean that it will never support a heavy angling pressure and harvest, so Fisheries Division does not publicize the water. Local anglers, however, know what the streams support, and do fish them quite a bit. In-stream habitat is usually in the form of large woody debris, or downed trees. Fish need them because they provide protection from overhead predators and because they force water currents to scour holes under and around them. The holes provide more water volume in the stream, keeping it cooler, as well as giving the fish more volume to "hide" in. The woody structure also forces more eddy currents, breaking the "solid" water flow so that fish can get out of the current to rest. First Quality Warm Waters, (FQWW) are large, productive waters capable of supporting a good fishery for either warm-water species or cool-water species. In the Upper

Peninsula, the designation generally applies to walleye, pike, musky or smallmouth bass waters. SQWW means small, possibly stagnant, warm streams that produce little to no actual fishery. Although small, their warm temperatures and generally high nutrient levels imply generally a higher productivity than the more "fishable" streams. Their value is attained from the production of forage that migrates downstream into areas of either cold-water or warm-water sports fish populations. For that reason, they are NOT useless waters, and they should be protected somewhat for the aquatic invertebrate and fish forage that they produce. Beaver populations in these streams could be a benefit, as their dams will increase productivity as well as inhibit sand bedload migration.

Wildlife Habitat Considerations: This compartment lies within the St. Ignace sub-subsection. The growing season last approximately 130 days. Extreme winter low temperature approaches –46° F. Annual snowfall averages 80 inches. The compartment falls within the Lake Michigan Shoreline Management Area which highlights the following Featured Species: Piping plover and white-tailed deer. Most of this compartment lies within the dune and swale complex associated with the Lake Michigan shoreline. General Land Office (GLO) Surveyor notes show the circa 1850 upland forest consisted primarily of white pine and red pine. Lowlands held spruce, balsam fir, tamarack, and cedar. Windthrow was likely the major natural disturbance regime. Current upland forests have shifted to jack pine and red pine. Lowlands are similar to pre-settlement conditions. Deer are distributed throughout this compartment during winter months. The majority of this compartment has been nominated for potential old growth designation. Wildlife habitat objectives in this compartment include maintaining the integrity of the dune and swale complex, providing natural functioning systems within the dune and swale complex, and maintaining closed canopy conifer for yarding deer. Although not recorded, there are possibilities of occurrence for many rare species. Other wildlife species of interest that may utilize this compartment include garter snake, gray jay, spruce grouse, least chipmunk and coyote.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and thin to discontinuous glacial till over bedrock. The glacial drift thickness varies between 0 and 50 feet. The Silurian Engadine and Manistique Groups subcrop below the glacial drift. The Engadine is quarried for stone to the east. The nearest gravel pit is two miles to the west and there appears to be some potential in the Compartment. There is no commercial oil and gas production in the UP.

Vehicle Access: There is no vehicle access to the southern portion of the compartment. To access the east side of McDonald Lake access is across private land.

Survey Needs: There will likely be a need for survey work in Sections 4 and 5.

Recreational Facilities and Opportunities: There are no recreational facilities within this compartment however, there are several recreational opportunities including hunting and fishing.

Fire Protection: Fire response times will be moderate given adequate detection, however due to the lack of roads within the compartment access and fire suppression efforts will be challenging.

Additional Compartment Information:

- **➤** The following reports from the Inventory are attached:
 - **♦** Total Acres by Cover Type and Age Class
 - **♦** Proposed Treatment Summary
 - **♦** Proposed Treatments No Limiting Factors
 - **♦** Proposed Treatments With Limiting Factors
 - **♦ Stand Details (Forested and Nonforested)**

- **♦** Dedicated and Proposed Special Conservation Areas
- > The following information is displayed, where pertinent, on the attached compartment maps:
 - ♦ Base feature information, stand boundaries, cover types, and numbers
 - **♦** Proposed treatments
 - ♦ Details on the road access system

Compartment 066 Year of Entry 2014

Shingleton Mgt. Unit

Tom Burnis : Examiner



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		00	\$2.0	82.7		KO. P.	\$ P	8,00	10,00	\$ 6 P	8.38	SOL JOB	,70,70 87,70	70 [×] / 30°		,
Aspen	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21	ſ
Cedar	0	0	0	0	0	0	0	0	0	81	43	0	47	0	172	ĺ
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Jack Pine	0	0	0	0	0	0	535	0	0	0	0	0	0	0	535	
Lowland Aspen/Balsam Poplar	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
Lowland Conifers	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	
Lowland Deciduous	0	0	0	0	0	5	55	0	17	0	0	0	0	0	76	
Lowland Shrub	57	0	0	0	0	0	0	0	0	0	0	0	0	0	57	
Lowland Spruce/Fir	0	0	0	0	0	0	23	0	0	0	0	0	0	0	23	
Marsh	132	0	0	0	0	0	0	0	0	0	0	0	0	0	132	
Northern Hardwood	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	
Paper Birch	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6	
Red Pine	0	0	0	0	0	12	352	0	0	0	0	0	0	0	364	1
Tamarack	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10	1
Upland Spruce/Fir	3	0	23	17	0	0	2	0	5	0	0	0	0	0	50	1
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1
Water	74	0	0	0	0	0	0	0	0	0	0	0	0	0	74	1
White Pine	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14	[
Total	317	0	23	27	0	23	988	0	25	81	43	0	47	0	1575	1



Table 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit

Compartment 066 Year of Entry 2014 **Total Compartment Acres: 1575**

Acres by Treatment Type

Commercial Harvest - 84 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 0 Tree Seeding - 0 Pesticide - 0

Cover Type by Harvest Method

		/	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18 0.	100 S	O O O	Citizano September 1		S. K.				
Lowland Conifer	s	7	0	0	0	0	0	7					
Lowland Decidud	ous	66	0	0	0	0	0	66					
Northern Hardwo	ood	3	0	0	0	0	0	3	•				
Upland Spruce/F	ir	7	0	0	0	0	0	7					
	Total	84	0	0	0	0	0	84					

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 066 Year of Entry 2014

- 22	OF.	NATL	RA	
13	/	1	1	7
RTA		1	50	100
EPA	DN	IR)	•	100
10			1	7
	1	CHIG		

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	41066001-Cut	7.6	6119 - Mixed Lowland Deciduous Forest	High Density Pole	83		Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal - Incomplete

Prescription Cut all except cedar and hemlock. Exclude NW portion of stand so as not to cross the drainage. 100 foot buffer on Mc Donald lake. Retention

Specs: will be lake buffer and NW portion of stand.

Other Acceptable regeneration will be mix of current spp.

Comments:

Next Monitor for reproduction.

Steps:

s

Proposed

Start Date: 10/01/2013

41066002-Cut 9.1 6119 - Mixed 83 Clearcut with 6119 - Mixed Cmpt. Review 2 High Harvest Lowland Deciduous Lowland Deciduous Density Reserves Proposal -Forest Pole Forest Incomplete

Prescription Cut all trees except cedar and hemlock. 100 foot buffer on lake. Buffer will be retention.

Specs:

Other Mix of current spp. acceptable regen.

Comments:

Next Monitor regeneration.

Steps:

<u>Proposed</u>

Start Date: 10/01/2013

5 41066005-Cut 5.4 42320 - Upland High 83 Harvest Clearcut 3102 - Grass Cmpt. Review Proposal - Pole Incomplete

Prescription Cut all trees. Small stand, no retention.

Specs:

Other acceptable regen spruce/fir mix.

Comments:

Next Monitor regen.

Steps:

<u>Proposed</u>

Start Date: 10/01/2013

41066006-Cut 66 45.0 6118 - Lowland High Harvest Clearcut with 6118 - Lowland Cmpt. Review Density Deciduous with Reserves Deciduous with Proposal -Cedar Pole Cedar Incomplete

<u>Prescription</u> Cut all trees except cedar and hemlock. Buffer lake 100 feet. Exclude solid patches of cedar with red line to prevent cutting cedar in order to <u>Specs</u>: reach a cuttable tree. There is an area of solid cedar in the southern portion of the stand. Retention will be lake buffer and cedar exclusions.

Other Comments

Acceptable regen mix of current spp.

Comments:

Next Monitor regen.

Steps:

<u>Proposed</u>

Start Date: 10/01/2013

Compartment: 066 Shingleton Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2014 s t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment** Cover Type **Approval** n Method Objective Status Name **Density** Range Age Type d 13 41066013-Cut 7.4 6124 - Lowland 66 Harvest Clearcut with 6124 - Lowland Cmpt. Review High Proposal -Spruce-Fir Density Reserves Spruce-Fir Incomplete Pole Prescription Harvest stand. do not cut cedar or hemlock. No retention due to small size. Specs: Other_ Acceptable regen mix of current spp. Comments: <u>Next</u> Monitor regen. Steps: **Proposed** 10/01/2013 Start Date: 41066014-Cut 3.4 4111 - S.Maple, 80 111-140 Clearcut 4111 - S.Maple, Cmpt. Review 14 High Harvest Hard Mast Density Hard Mast Proposal -Association Pole Association Incomplete Prescription Clear cut stand. Mostly hard maple but very poor quality and small stand. No retention. Maintain a few large beech. Specs: <u>Other</u> Current spp mix acceptable regen. Comments: Monitor regen. <u>Next</u> Steps: **Proposed** 10/01/2013 Start Date: 41066019-Cut 4.6 54 6117 - Lowland 19 6117 - Lowland High Harvest Clearcut Cmpt. Review Deciduous, Mixed Density Deciduous, Mixed Proposal -Coniferous Pole Coniferous Incomplete Prescription Cut all trees. No retention due to small acrerage. Specs: Other mix of current spp acceptable regen. Comments: Monitor regen. <u>Next</u> Steps: Proposed 10/01/2013

Start Date:

41066025-Cut 42330 - Upland Fir Cmpt. Review 25 1.8 42330 - Upland Fir High 60 Harvest Clearcut Density Proposal -

Pole

Prescription Cut all trees if stand can be accessed. No retention due to small size.

Specs:

Other_ mix of current spp. acceptable regen.

Comments: Harvest of stand will depend on route of access.

<u>Next</u> Monitor regen.

Steps:

Proposed

10/01/2013 Start Date:

Total Treatment

84.3 **Acreage Proposed:**

Incomplete

Shingleton Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 066 a Limiting Factor s Year of Entry 2014 n Treatment Acres CoverType Size Stand BA **Treatment Treatment Cover Type Approval** Name Method Objective Status Density Age Range Type d #Error **Prescription** Specs: <u>Other</u> Comment: <u>Next</u> Steps: <u>Proposed</u> Start Date: #Error

Total Treatment Acreage Proposed:

Limiting Factor and No Treatment Reason

0

Out of YOE -- Treatments **Prescribed with No Limiting Factor**

Year of Entry: 2014

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	1.8	Unspecified				Harvest	Unspecified	Unspecified	Cmpt. Review Proposal - Incomplete
Prescription Specs:									·
Other Comments:									
Next Steps:									
Proposed Start Date:									
41009014- Cut1	5.2	6120 - Lowland Cedar	High Density Pole	141		Harvest	Patch or Strip Clearcut	6120 - Lowland Cedar	Cmpt. Review Proposal - Incomplete
Prescription patch of Specs:	ut app. 5 ad	cres, determined at tim	ne of prep						
Other Comments:									
Next Monitor Steps:	according	to work instructions.							
Proposed Start Date: 10/01/2	2011								
41044_OutOf\ OE-Cut	0.9					Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal - Incomplete
Prescription Mark re Specs:	ed pine and	white pine to 80 sq.ft.	where dens	ities are	high enoug	gh. Cut all other	species except hemle	ock, oak, and cedar.	
Other Retenti	on will be a	portion of the red pine	e and white	pine trees	s remainin	g .			
Next Possible Steps:	e regenera	tion harvest next year	of entry.						
Proposed Start Date: 10/01/2	2013								

7.8

Acreage Proposed:

Shingleton Mgt. Unit			5 – Fo	orested Sta	nds Compartment: 066 Year of Entry: 2014
Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6119 - Mixed Lowland Deciduous Forest	High Density Pole	7.6	83		
6119 - Mixed Lowland Deciduous Forest	High Density Pole	9.1	83		
42320 - Upland Spruce	High Density Pole	5.4	83		New stand added.
6118 - Lowland Deciduous with Cedar	High Density Pole	45.0	66		
6124 - Lowland Spruce- Fir	High Density Pole	7.4	66		Harvest stand. do not cut cedar or hemlock. No retention due to small size.
4111 - S.Maple, Hard Mast Association	High Density Pole	3.4	80	111-140	
42330 - Upland Fir	High Density Sapling	17.5	26		
6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	4.6	54		New stand added.
6112 - Lowland Aspen	High Density Sapling	18.7	4		Sale Contract 41-013-04-01 [3/21/07 BB] Stand was cut winter 2007, Mead Contract, actual acres was 17.
					Regenerated nicely to quaking aspen. Fully stocked, 10-15 feet tall.
6120 - Lowland Cedar	High Density Pole	34.4	144		
42330 - Upland Fir	High Density Pole	1.8	60		Cut all trees if stand can be accessed. No retention due to small size.
42220 - Natural Jack Pine	High Density Pole	43.6	64		
6116 - Lowland Birch	Medium Density Pole	6.1	59		
42210 - Natural Red Pine	High Density Log	62.1	63		
42210 - Natural Red Pine	High Density Log	13.1	63		
6120 - Lowland Cedar	High Density Pole	7.6	94		
42330 - Upland Fir	High Density Pole	17.0	36		
	Level 4 Cover Type 6119 - Mixed Lowland Deciduous Forest 6119 - Mixed Lowland Deciduous Forest 42320 - Upland Spruce 6118 - Lowland Deciduous with Cedar 6124 - Lowland Spruce-Fir 4111 - S.Maple, Hard Mast Association 42330 - Upland Fir 6117 - Lowland Deciduous, Mixed Coniferous 6112 - Lowland Aspen 6120 - Lowland Cedar 42330 - Upland Fir 42210 - Natural Jack Pine 6116 - Lowland Birch 42210 - Natural Red Pine 6120 - Lowland Cedar	Level 4 Cover Type 6119 - Mixed Lowland Deciduous Forest 6119 - Mixed Lowland Deciduous Forest 42320 - Upland Spruce 6118 - Lowland Deciduous with Cedar Fir 6124 - Lowland Spruce- Fir 4111 - S.Maple, Hard Mast Association 6117 - Lowland Deciduous, Mixed Coniferous 6112 - Lowland Aspen 6120 - Lowland Cedar 42330 - Upland Fir 42330 - Upland Fir	Level 4 Cover TypeSize DensityAcres6119 - Mixed Lowland Deciduous ForestHigh Density Pole7.66119 - Mixed Lowland Deciduous ForestHigh Density Pole9.142320 - Upland SpruceHigh Density Pole5.46118 - Lowland Deciduous with CedarHigh Density Pole45.06124 - Lowland Spruce- FirHigh Density Pole7.44111 - S.Maple, Hard Mast AssociationHigh Density Pole3.442330 - Upland FirHigh Density Sapling17.56117 - Lowland Deciduous, Mixed ConiferousHigh Density Pole4.66112 - Lowland AspenHigh Density Pole18.76120 - Lowland CedarHigh Density Pole1.842330 - Upland FirHigh Density Pole43.66116 - Lowland BirchMedium Pole43.66116 - Lowland BirchMedium Pole6.142210 - Natural Red PineHigh Density Log62.142210 - Natural Red PineHigh Density Log13.16120 - Lowland CedarHigh Density High Density Log7.642330 - Upland FirHigh Density Pole7.6	Level 4 Cover Type	Level 4 Cover Type Size Density Acres Stand Age BA Range 6119 - Mixed Lowland Deciduous Forest High Density Pole 7.6 83

s t	Shingleto	n Mgt. Unit		5 – Fo	orested Stands		ompartment: 066 'ear of Entry: 2014	131
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General mments:	MICHIGAN
37	42220 - Natural Jack Pine	High Density Pole	443.9	64				
38	42210 - Natural Red Pine	High Density Pole	225.7	63				
48	42340 - Upland Spruce/Fir	High Density Pole	5.5	29				
53	6120 - Lowland Cedar	High Density Pole	13.0	135		Had some sele	ctive cutting in 1954.	
54	42210 - Natural Red Pine	High Density Pole	2.6	63				
61	4130 - Aspen	High Density Sapling	12.5	6		/18/05] Stand was cut in th /08/05 AP) FTP W41-119/		
73	6120 - Lowland Cedar	High Density Pole	73.8	90		Stand has been cut through cord of this cutting. An old stumps can stil be found regenerated well to ceda	woods road is still visa Areas that were cut l	able and old heavier
75	42210 - Natural Red Pine	High Density Pole	12.4	56				
76	6120 - Lowland Cedar	High Density Pole	25.4	104				
82	6121 - Tamarack	High Density Sapling	10.3	30				
83	42210 - Natural Red Pine	High Density Pole	48.4	60				
84	6122 - Black Spruce	High Density Pole	22.8	62				
87	42220 - Natural Jack Pine	High Density Pole	47.6	60				
89	42330 - Upland Fir	High Density Sapling	3.3	6		[5/18/05 BB] Stand was cu 9/8/05 BB] FTP W41-1194		
					Pre	evious MO= aspen but stan pine . Large white pin		
93	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	10.0	64				
95	4136 - Aspen, Mixed Conifer	High Density Sapling	4.9	2	S	Stand cut winter 2010, sale stand was 12 acres but only ffers and an ERA. Residu sqft. red	5 acres were cut due	to stream

S t	Shingleto	Shingleton Mgt. Unit			orested Star	Compartment: 066 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
97	6120 - Lowland Cedar	High Density Pole	17.4	107		
98	4136 - Aspen, Mixed Conifer	High Density Sapling	3.3	2		Stand cut winter 2010, sale number 41-039-08-02. Original stand was 12 acres but only 5 acres were cut due to stream buffers and an ERA. Residual basal areas are; white pine= 12 sqft. red pine = 7 sqft.
100	42200 - Natural White Pine	High Density Pole	14.2	65		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	MICHIGAN
3	623 - Emergent Wetland	0.9	N\A	Unspecified		
4	623 - Emergent Wetland	2.0	N\A	Unspecified		
7	310 - Herbaceous Openland	6.0	N\A	Unspecified		
8	50 - Water	1.1	N\A	Unspecified		
9	623 - Emergent Wetland	4.1	N\A	Unspecified		
10	622 - Lowland Shrub	1.6	N\A	Unspecified		
11	50 - Water	3.5	N\A	Unspecified		
12	623 - Emergent Wetland	1.2	N\A	Unspecified		
15	623 - Emergent Wetland	2.7	N\A	Unspecified		
16	623 - Emergent Wetland	5.6	N\A	Unspecified		
17	623 - Emergent Wetland	4.5	N\A	Unspecified		
22	622 - Lowland Shrub	4.2	N\A	Unspecified		
23	623 - Emergent Wetland	1.7	N\A	Unspecified		
24	623 - Emergent Wetland	4.5	N\A	Unspecified		
28	623 - Emergent Wetland	1.2	N\A	Unspecified		
29	50 - Water	7.1	N\A	Unspecified		
30	622 - Lowland Shrub	24.2	N\A	Unspecified		
32	50 - Water	4.5	N\A	Unspecified		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
35	623 - Emergent Wetland	2.2	N\A	Unspecified	
39	623 - Emergent Wetland	4.9	N\A	Unspecified	
40	623 - Emergent Wetland	5.9	N\A	Unspecified	
41	50 - Water	8.9	N\A	Unspecified	
42	623 - Emergent Wetland	3.4	N\A	Unspecified	
43	50 - Water	3.0	N\A	Unspecified	
44	622 - Lowland Shrub	2.3	N\A	Unspecified	
45	623 - Emergent Wetland	5.8	N\A	Unspecified	
46	623 - Emergent Wetland	14.4	N\A	Unspecified	
47	50 - Water	9.6	N\A	Unspecified	
49	50 - Water	2.3	N\A	Unspecified	
50	50 - Water	1.7	N\A	Unspecified	
51	623 - Emergent Wetland	9.0	N\A	Unspecified	
52	623 - Emergent Wetland	15.0	N\A	Unspecified	
55	50 - Water	0.6	N\A	Unspecified	
56	622 - Lowland Shrub	14.0	N\A	Unspecified	
57	50 - Water	5.2	N\A	Unspecified	
58	50 - Water	2.4	N\A	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
59	623 - Emergent Wetland	11.9	N\A	Unspecified	
60	50 - Water	1.3	N\A	Unspecified	
62	122 - Road/Parking Lot	3.8	N\A	Unspecified	
63	623 - Emergent Wetland	3.9	N\A	Unspecified	
64	50 - Water	1.5	N\A	Unspecified	
65	50 - Water	1.0	N\A	Unspecified	
66	50 - Water	4.5	N\A	Unspecified	
67	50 - Water	2.6	N\A	Unspecified	
68	623 - Emergent Wetland	1.6	N\A	Unspecified	
69	623 - Emergent Wetland	1.3	N\A	Unspecified	
70	623 - Emergent Wetland	2.1	N\A	Unspecified	
71	50 - Water	1.1	N\A	Unspecified	
72	622 - Lowland Shrub	1.3	N\A	Unspecified	
74	623 - Emergent Wetland	3.4	N\A	Unspecified	
77	623 - Emergent Wetland	1.9	N\A	Unspecified	
78	623 - Emergent Wetland	2.3	N\A	Unspecified	
79	623 - Emergent Wetland	2.5	N\A	Unspecified	
80	623 - Emergent Wetland	3.4	N\A	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
81	50 - Water	2.4	N\A	Unspecified	
85	50 - Water	6.9	N\A	Unspecified	
86	623 - Emergent Wetland	0.8	N\A	Unspecified	
88	623 - Emergent Wetland	1.8	N\A	Unspecified	
90	622 - Lowland Shrub	3.5	N\A	Unspecified	
91	50 - Water	2.9	N\A	Unspecified	
92	623 - Emergent Wetland	2.6	N\A	Unspecified	
94	623 - Emergent Wetland	2.2	N\A	Unspecified	
96	623 - Emergent Wetland	0.9	N\A	Unspecified	
99	622 - Lowland Shrub	2.7	N\A	Unspecified	
101	310 - Herbaceous Openland	1.3	N\A	Unspecified	
102	622 - Lowland Shrub	2.9	N\A	Unspecified	

Compartment: 066 Year of Entry: 2014



7 - 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.

Stand	SCA Type	SCA Name	Acres	Comments
multiple - see	SCA Removal	41066_SCARemoval	1242.1 RAU has a	dded SCA. Please enter comments.

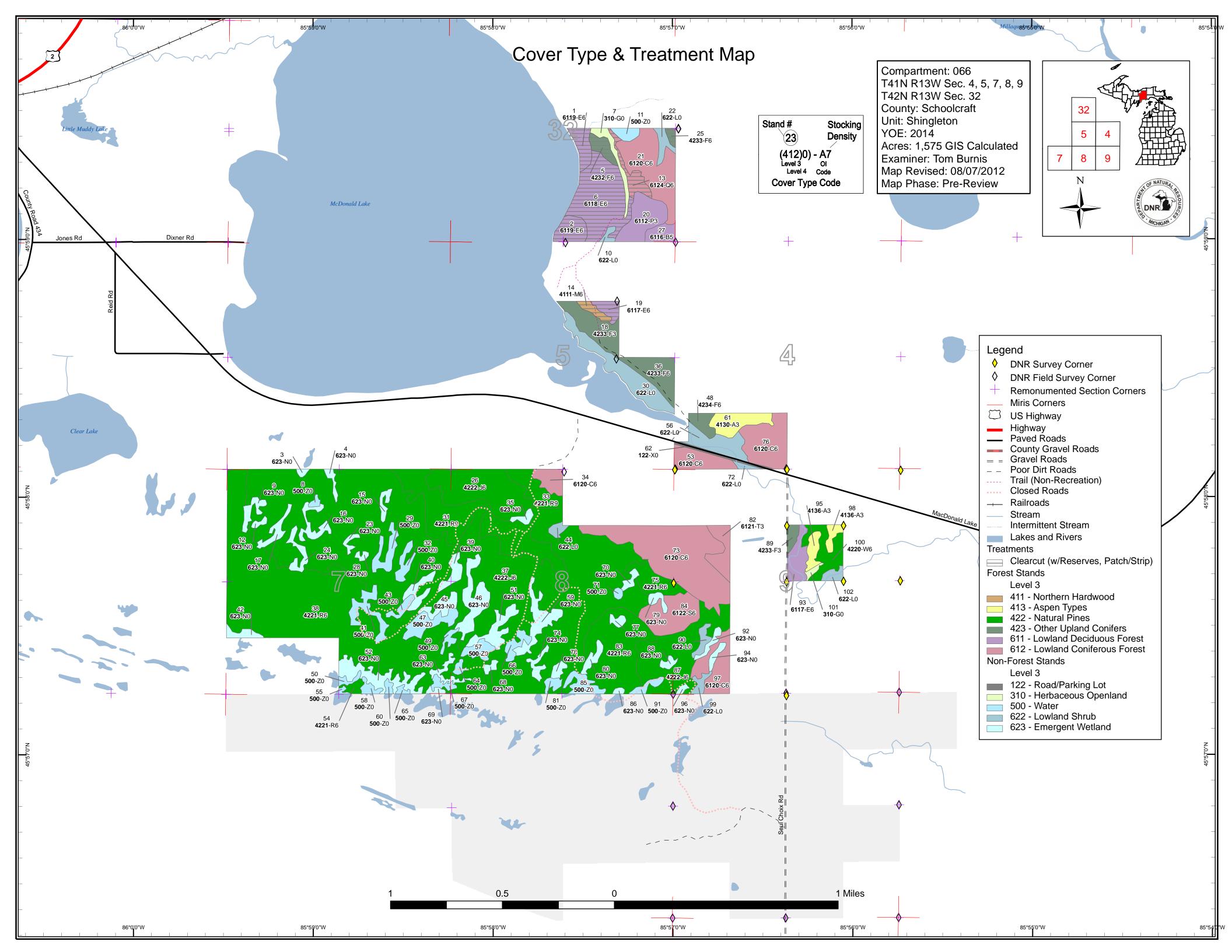
Compartment: 066
Year of Entry 2014



8 – 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.

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
HCVA	Critical Dunes	Critical dune areas are established via the public legislative proc Dune Protection and Management, of the Natural Resources and 451. The program is administered by the Michigan Department of current distribution of designated critical dunes is established by Areas.	d Environmental Protection Act, 1994 PA of Environmental Quality (DEQ). The
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of identified as Element Occurrences (EOs) by the Michigan Natura context of their natural community classification system. Elemen (Excellent) or B (Good) and a Global (G) or State (S) element (rathreatened (2), or rare (3) serve as an initial base of ERAs. They the State. The system is comprised of individual or associations managed for restoration and maintenance of natural ecological public recommendations for lands as ERAs using the DNR Contraction.	al Features Inventory (MNFI) within the t Occurrences with viability ranks of A urity) ranking of endangered (1), may be located upon any ownership in of natural community types that are processes and values. The public may
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildle and Waterfowl Production Areas, deer wintering complexes in loopenings and savannas. Habitat areas are distinct from critical hendangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperations.	wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more rendangered species, and are not



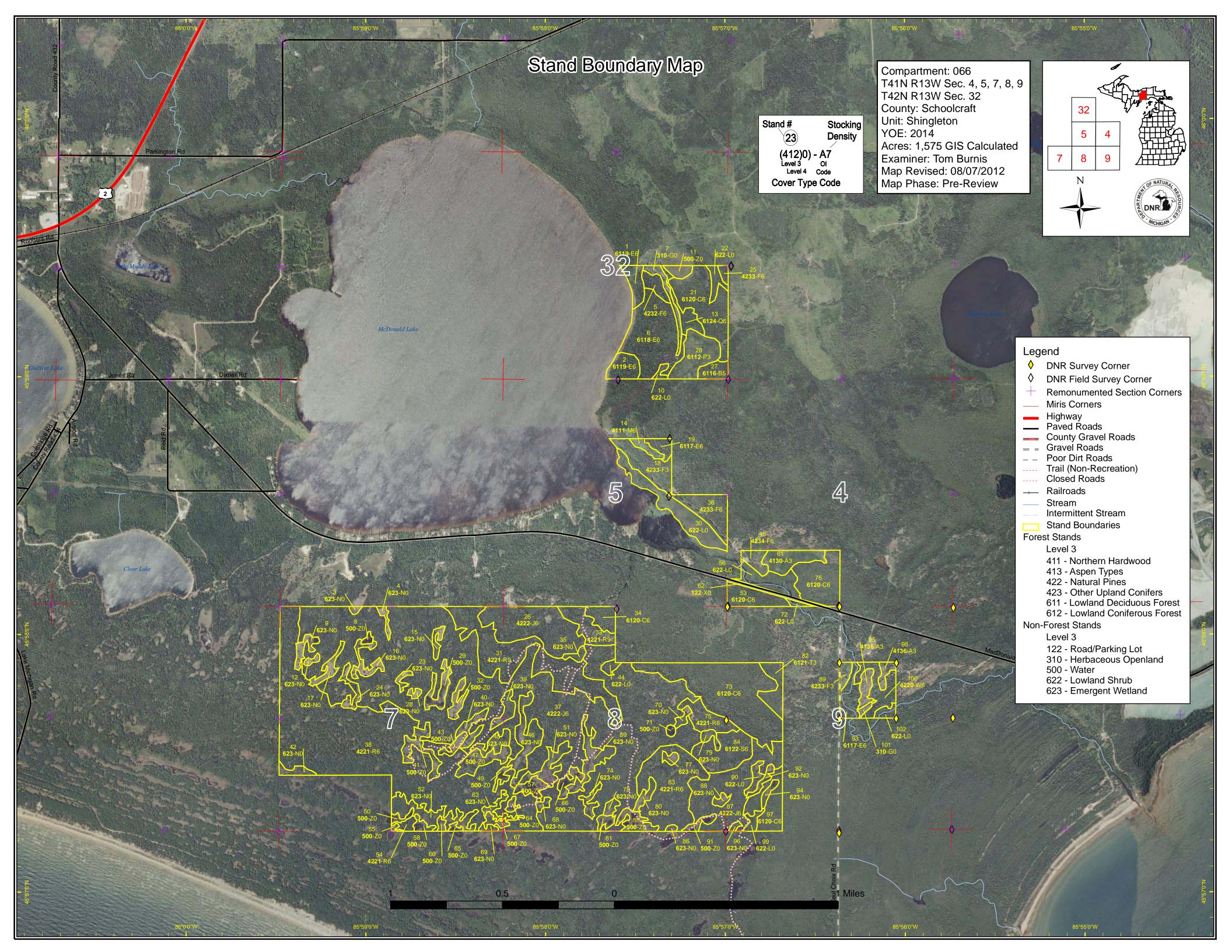


Table 1 – Total Acres by Cover Type and Age Class

Compartment 066 Year of Entry 2014

Shingleton Mgt. Unit

Tom Burnis: Examiner



						Age	Class									
		6.9	0,79	R. P.	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	go de	\$5.0g	\$30.00	, R. ,	\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	85	80,00	70.73	,	8 / Van / V	, S [®]
Aspen	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21	
Cedar	0	0	0	0	0	0	0	0	0	81	43	0	47	0	172	l
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Jack Pine	0	0	0	0	0	0	535	0	0	0	0	0	0	0	535	
Lowland Aspen/Balsam Poplar	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
Lowland Conifers	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	Ì
Lowland Deciduous	0	0	0	0	0	5	55	0	17	0	0	0	0	0	76	
Lowland Shrub	57	0	0	0	0	0	0	0	0	0	0	0	0	0	57	Ì
Lowland Spruce/Fir	0	0	0	0	0	0	23	0	0	0	0	0	0	0	23	Ì
Marsh	132	0	0	0	0	0	0	0	0	0	0	0	0	0	132	Ì
Northern Hardwood	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	Ì
Paper Birch	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6	Ì
Red Pine	0	0	0	0	0	12	352	0	0	0	0	0	0	0	364	Ì
Tamarack	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10	
Upland Spruce/Fir	3	0	23	17	0	0	2	0	5	0	0	0	0	0	50	ĺ
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	ĺ
Water	74	0	0	0	0	0	0	0	0	0	0	0	0	0	74	

White Pine

Total



Table 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit

Compartment 066 Year of Entry 2014 **Total Compartment Acres: 1575**

Acres by Treatment Type

Commercial Harvest - 76 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 0 Tree Seeding - 0 Pesticide - 0

Cover Type by Harvest Method

	Cover Type by Harvest Method											
		/	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 10 00 00 00 00 00 00 00 00 00 00 00 0	100 100 100 100 100 100 100 100 100 100	No N	Out Out		S. R.			
Lowland Conifers	5	7	0	0	0	0	0	7				
Lowland Decidud	ous	58	0	0	0	0	0	58				
Northern Hardwo	od	3	0	0	0	0	0	3				
Upland Spruce/F	ir	7	0	0	0	0	0	7				
	Total	76	0	0	0	0	0	76				

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 066 Year of Entry 2014

- 22	OF.	NATL	RA	
13	/	1	1	7
RIA		1	50	100
EPA	DN	IR)	•	100
10			1	7
	1	CHIG		

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	41066001-Cut	3.8	6119 - Mixed Lowland Deciduous Forest	High Density Pole	83		Harvest	Clearcut with Reserves	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Cut all except cedar and hemlock. Exclude NW portion of stand so as not to cross the drainage. 100 foot buffer on Mc Donald lake. Retention will be lake buffer and NW portion of stand. Cut stand in winter. Specs:

Other_ Acceptable regeneration will be mix of current spp.

Comments:

<u>Next</u> Monitor for reproduction.

Steps:

s

Proposed

10/01/2013 Start Date:

41066002-Cut 7.2 6119 - Mixed 83 6119 - Mixed Cmpt. Review 2 High Harvest Clearcut with Lowland Deciduous Density Reserves **Lowland Deciduous** Proposal Forest Pole Forest

Prescription Cut all trees except cedar and hemlock. 100 foot buffer on lake. Buffer will be retention. Cut stand in winter

Specs:

<u>Other</u> Mix of current spp. acceptable regen.

Comments:

Monitor regeneration. <u>Next</u>

Steps:

Proposed

10/01/2013 Start Date:

42320 - Upland 83 41066005-Cut 54 High Harvest Clearcut 3102 - Grass Cmpt. Review Density Proposal Spruce

Pole

Prescription Cut all trees. Small stand, no retention. Cut stand in winter.

Specs:

acceptable regen spruce/fir mix. Other

Comments:

Monitor regen. Next

Steps:

Proposed

10/01/2013 Start Date:

41066006-Cut 6 42.2 6118 - Lowland High 66 Harvest Clearcut with 6118 - Lowland Cmpt. Review Deciduous with Density Reserves Deciduous with Proposal Cedar Pole Cedar

Prescription Cut all trees except cedar and hemlock. Buffer lake 100 feet. In addition, exclude solid patches of cedar with red line to prevent cutting cedar in

order to reach a cuttable tree. There is an area of solid cedar in the southern portion of the stand. Retention will be lake buffer and cedar

exclusions. Cut stand in winter.

<u>Other</u>

Acceptable regen mix of current spp.

Comments: <u>Next</u>

Specs:

Monitor regen.

Steps: **Proposed**

Start Date: 10/01/2013

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 066
Year of Entry 2014

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THE		18
EPAR	DNR)
6	MICHIGAN	1

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	41066013-Cut	7.4	6124 - Lowland Spruce-Fir	High Density Pole	66		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal

Prescription Harvest stand. do not cut cedar or hemlock. No retention due to small size. Cut stand in winter.

Specs:

s

Other Acceptable regen mix of current spp.

Comments:

Next Monitor regen.

Steps:

<u>Proposed</u>

Start Date: 10/01/2013

41066014-Cut 3.4 4111 - S.Maple, High 80 111-140 Harvest Clearcut with 4111 - S.Maple, Cmpt. Review 14 Hard Mast Density Reserves Hard Mast Proposal Association Pole Association

<u>Prescription</u> Clear cut stand. Mostly hard maple but very poor quality and small stand. Maintain a few large beech and all yellow birch. Cut stand in winter.

Specs:

Other Current spp mix acceptable regen.

Comments:

Next Monitor regen.

Steps:

<u>Proposed</u>

Start Date: 10/01/2013

41066019-Cut 4.6 6117 - Lowland 54 Harvest 6117 - Lowland Cmpt. Review 19 High Clearcut Deciduous, Mixed Density Deciduous, Mixed Proposal Coniferous Pole Coniferous

Prescription Cut all trees. No retention due to small acrerage. Cut stand in winter.

Specs:

Other mix of current spp acceptable regen.

Comments:

Next Monitor regen.

Steps:

<u>Proposed</u>

Start Date: 10/01/2013

Acreage Proposed: 74.0

Total Treatment

S t		Shingl	eton Mgt. Unit	Table 4		atments imiting	s Prescribed Factor	with	Compartment: 066 Year of Entry 2014	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	41066025-Cut	1.8	42330 - Upland Fir	High Density Pole	60		Harvest	Clearcut	42330 - Upland Fir	Cmpt. Review Proposal
	Prescription Cut all trees if stand can be accessed. No retention due to small size. Specs:									
Other Comn			acceptable regen. vill depend on route of a	access.						
Next Steps	Monitor r <u>:</u>	egen.								
Propos Start D		3								
	ng Factor and No ment Reason		Unknown if access thr acent landowner(s) is p							

Difficult access through private for small acerage and low volume.

Total Treatment Acreage Proposed:

1.8

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2014

4110 - Sugar Maple Cmpt. Review

Proposal

Association

				Prescr	ibed w	ith No Li	imiting Facto	or		DNR DNR
	eatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41	009014- Cut1	5.2	6120 - Lowland Cedar	High Density Pole	141		Harvest	Patch or Strip Clearcut	6120 - Lowland Cedar	Cmpt. Review Proposal - Incomplete
Prescriptio Specs:	on_patch cu	it app. 5 ac	res, determined at tir	ne of prep						
Other Comments	<u>s:</u>									
<u>Next</u> Steps:	Monitor	according t	o work instructions.							
Proposed Start Date:	<u>:</u> 10/01/20)11								
	14_OutOfY DE-Cut	0.9					Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal - Incomplete
Prescriptio Specs:	on_ Mark red	d pine and	white pine to 80 sq.ft.	where dens	ities are	high enoug	h. Cut all other	species except hemle	ock, oak, and cedar.	
Other Comments		n will be a	portion of the red pine	e and white	pine tree	s remainino] .			
<u>Next</u> Steps:	Possible	regenerati	on harvest next year	of entry.						
Proposed	. 10/01/20	140								

Start Date:

10/01/2013

41172002-Cut

Association Pole Prescription Treatment=Thin stand down to 80 BA on average while putting in regen gaps to promote species diversity and Sugar Maple. Put stand up with

Harvest

Single Tree

Selection

49

adjacent hardwood in comp 169 in 2014. Specs:

4112 - Maple,

Beech, Cherry

High

Density

MO=Un-even aged hardwoods with quality Sugar Maple stems

Retention=Residual BA

4.4

<u>Other</u> Comments:

Natural regen survey to follow harvest during the next inventory cycle.

<u>Next</u> Steps:

Proposed

10/01/2014 Start Date:

Total Treatment

Acreage Proposed: 10.5

s t	Shingletor	Shingleton Mgt. Unit			prested Sta	nds Compartment: 066 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6119 - Mixed Lowland Deciduous Forest	High Density Pole	7.6	83		
2	6119 - Mixed Lowland Deciduous Forest	High Density Pole	9.1	83		
5	42320 - Upland Spruce	High Density Pole	5.4	83		New stand added.
6	6118 - Lowland Deciduous with Cedar	High Density Pole	45.0	66		
13	6124 - Lowland Spruce- Fir	High Density Pole	7.4	66		Harvest stand. do not cut cedar or hemlock. No retention due to small size.
14	4111 - S.Maple, Hard Mast Association	High Density Pole	3.4	80	111-140	
18	42330 - Upland Fir	High Density Sapling	17.5	26		
19	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	4.6	54		New stand added.
20	6112 - Lowland Aspen	High Density Sapling	18.7	4		Sale Contract 41-013-04-01 [3/21/07 BB] Stand was cut winter 2007, Mead Contract, actual acres was 17.
						Regenerated nicely to quaking aspen. Fully stocked, 10-15 feet tall.
21	6120 - Lowland Cedar	High Density Pole	34.4	144		
25	42330 - Upland Fir	High Density Pole	1.8	60		Cut all trees if stand can be accessed. No retention due to small size.
26	42220 - Natural Jack Pine	High Density Pole	43.6	64		
27	6116 - Lowland Birch	Medium Density Pole	6.1	59		
31	42210 - Natural Red Pine	High Density Log	62.1	63	51-80	
33	42210 - Natural Red Pine	High Density Log	13.1	63	51-80	
34	6120 - Lowland Cedar	High Density Pole	7.6	94		
36	42330 - Upland Fir	High Density Pole	17.0	36		

s t	Shingleto		5 – Fo	orested Sta	nds Compartment: 066 Year of Entry: 2014	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	42220 - Natural Jack Pine	High Density Pole	443.9	64		
38	42210 - Natural Red Pine	High Density Pole	225.7	63	51-80	
48	42340 - Upland Spruce/Fir	High Density Pole	5.5	29		
53	6120 - Lowland Cedar	High Density Pole	13.0	135		Had some selective cutting in 1954.
54	42210 - Natural Red Pine	High Density Pole	2.6	63	51-80	
61	4130 - Aspen	High Density Sapling	12.5	6		[5/18/05] Stand was cut in the winter of 2005. Sale acres = 13 (9/08/05 AP) FTP W41-1194 has been completed Aspen TSI.
73	6120 - Lowland Cedar	High Density Pole	73.8	90		Stand has been cut through many years ago. Could find no record of this cutting. An old woods road is still visable and old stumps can stil be found. Areas that were cut heavier regenerated well to cedar that are now 3-4 inches dbh.
75	42210 - Natural Red Pine	High Density Pole	12.4	56	51-80	
76	6120 - Lowland Cedar	High Density Pole	25.4	104		
82	6121 - Tamarack	High Density Sapling	10.3	30		
83	42210 - Natural Red Pine	High Density Pole	48.4	60	51-80	
84	6122 - Black Spruce	High Density Pole	22.8	62		
87	42220 - Natural Jack Pine	High Density Pole	47.6	60		
89	42330 - Upland Fir	High Density Sapling	3.3	6		[5/18/05 BB] Stand was cut winter of 2005, sale acres= 3. [9/8/05 BB] FTP W41-1194 has been completed, Aspen TSI.
						Previous MO= aspen but stand filling in with spruce fir and white pine . Large white pine left for visual along road .
93	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	10.0	64		
95	4136 - Aspen, Mixed Conifer	High Density Sapling	4.9	2		Stand cut winter 2010, sale number 41-039-08-02. Original stand was 12 acres but only 5 acres were cut due to stream buffers and an ERA. Residual basal areas are; white pine= 12 sqft. red pine = 7 sqft.

S t a n d	Shingleton Mgt. Unit			5 – Fo	orested Sta	nds Compartment: 066 Year of Entry: 2014
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
97	6120 - Lowland Cedar	High Density Pole	17.4	107		
98	4136 - Aspen, Mixed Conifer	High Density Sapling	3.3	2		Stand cut winter 2010, sale number 41-039-08-02. Original stand was 12 acres but only 5 acres were cut due to stream buffers and an ERA. Residual basal areas are; white pine= 12 sqft. red pine = 7 sqft.
100	42200 - Natural White Pine	High Density Pole	14.2	65	81-110	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	623 - Emergent Wetland	0.9	N\A	Unspecified	
4	623 - Emergent Wetland	2.0	N\A	Unspecified	
7	310 - Herbaceous Openland	6.0	N\A	Unspecified	
8	50 - Water	1.1	N\A	Unspecified	
9	623 - Emergent Wetland	4.1	N\A	Unspecified	
10	622 - Lowland Shrub	1.6	N\A	Unspecified	
11	50 - Water	3.5	N\A	Unspecified	
12	623 - Emergent Wetland	1.2	N\A	Unspecified	
15	623 - Emergent Wetland	2.7	N\A	Unspecified	
16	623 - Emergent Wetland	5.6	N\A	Unspecified	
17	623 - Emergent Wetland	4.5	N\A	Unspecified	
22	622 - Lowland Shrub	4.2	N\A	Unspecified	
23	623 - Emergent Wetland	1.7	N\A	Unspecified	
24	623 - Emergent Wetland	4.5	N\A	Unspecified	
28	623 - Emergent Wetland	1.2	N\A	Unspecified	
29	50 - Water	7.1	N\A	Unspecified	
30	622 - Lowland Shrub	24.2	N\A	Unspecified	
32	50 - Water	4.5	N\A	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	MICHIGAN
35	623 - Emergent Wetland	2.2	N\A	Unspecified		
39	623 - Emergent Wetland	4.9	N\A	Unspecified		
40	623 - Emergent Wetland	5.9	N\A	Unspecified		
41	50 - Water	8.9	N\A	Unspecified		
42	623 - Emergent Wetland	3.4	N\A	Unspecified		
43	50 - Water	3.0	N\A	Unspecified		
44	622 - Lowland Shrub	2.3	N\A	Unspecified		
45	623 - Emergent Wetland	5.8	N\A	Unspecified		
46	623 - Emergent Wetland	14.4	N\A	Unspecified		
47	50 - Water	9.6	N\A	Unspecified		
49	50 - Water	2.3	N\A	Unspecified		
50	50 - Water	1.7	N\A	Unspecified		
51	623 - Emergent Wetland	9.0	N\A	Unspecified		
52	623 - Emergent Wetland	15.0	N\A	Unspecified		
55	50 - Water	0.6	N\A	Unspecified		
56	622 - Lowland Shrub	14.0	N\A	Unspecified		
57	50 - Water	5.2	N\A	Unspecified		
58	50 - Water	2.4	N\A	Unspecified		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	MICHIGAN
59	623 - Emergent Wetland	11.9	N\A	Unspecified		
60	50 - Water	1.3	N\A	Unspecified		
62	122 - Road/Parking Lot	3.8	N\A	Unspecified		
63	623 - Emergent Wetland	3.9	N\A	Unspecified		
64	50 - Water	1.5	N\A	Unspecified		
65	50 - Water	1.0	N\A	Unspecified		
66	50 - Water	4.5	N\A	Unspecified		
67	50 - Water	2.6	N\A	Unspecified		
68	623 - Emergent Wetland	1.6	N\A	Unspecified		
69	623 - Emergent Wetland	1.3	N\A	Unspecified		
70	623 - Emergent Wetland	2.1	N\A	Unspecified		
71	50 - Water	1.1	N\A	Unspecified		
72	622 - Lowland Shrub	1.3	N\A	Unspecified		
74	623 - Emergent Wetland	3.4	N\A	Unspecified		
77	623 - Emergent Wetland	1.9	N\A	Unspecified		
78	623 - Emergent Wetland	2.3	N\A	Unspecified		
79	623 - Emergent Wetland	2.5	N\A	Unspecified		
80	623 - Emergent Wetland	3.4	N\A	Unspecified		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	
81	50 - Water	2.4	N\A	Unspecified		
85	50 - Water	6.9	N\A	Unspecified		
86	623 - Emergent Wetland	0.8	N\A	Unspecified		
88	623 - Emergent Wetland	1.8	N\A	Unspecified		
90	622 - Lowland Shrub	3.5	N\A	Unspecified		
91	50 - Water	2.9	N\A	Unspecified		
92	623 - Emergent Wetland	2.6	N\A	Unspecified		
94	623 - Emergent Wetland	2.2	N\A	Unspecified		
96	623 - Emergent Wetland	0.9	N\A	Unspecified		
99	622 - Lowland Shrub	2.7	N\A	Unspecified		
101	310 - Herbaceous Openland	1.3	N\A	Unspecified		
102	622 - Lowland Shrub	2.9	N\A	Unspecified		

Compartment: 066 Year of Entry: 2014



7 - 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.

Stand	SCA Type	SCA Name	Acres	Comments
multiple - see	SCA Removal	41066_SCARemoval		removed from POG. Does not meet requirements for type 1 or 2 old growth.

Compartment: 066
Year of Entry 2014



8 – 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.

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area			
HCVA	Critical Dunes	Critical dune areas are established via the public legislative proc Dune Protection and Management, of the Natural Resources and 451. The program is administered by the Michigan Department of current distribution of designated critical dunes is established by Areas.	d Environmental Protection Act, 1994 PA of Environmental Quality (DEQ). The			
ERA	Ecological Reference Areas					
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildle and Waterfowl Production Areas, deer wintering complexes in loopenings and savannas. Habitat areas are distinct from critical hendangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperations.	wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more rendangered species, and are not			

