

Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41096 Entry Year 2019 Acreage: 2,134 County Delta

Management Area: Lake Michigan Shoreline

Revision Date: 2017-08-09
Stand Examiner: Tori Irving

Legal Description:

T39N R18W Sections 21, 28, 29 & 31-34

Identified Planning Goals:

The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity Stewardship, Wildlife and Timber Management are some of the key management components within this compartment.

Soil and topography:

The soils in this compartment are generally poorly drained due to their proximity to bedrock. The terrain in the area is relatively flat with the exception of the areas close to the lake which take on a dune and swale effect from glaciation and receding lake levels. The Eastern Upper Peninsula Eco-Regional Planning Process is using a Management Area Concept to manage on a broader scale and Land Type Associations (LTA's) are key components to defining the soils and topography within the Management Areas. This majority of this compartment lies within the Garden Wetlands/Outcrop LTA. In addition, there is a small amount of the compartment that lies within the Garden Outcrop LTA.

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

The compartment is nearly all contiguous State land with a single piece of private in the center of the compartment which is mainly hunting land. The edges of the compartment and most of the Garden Peninsula are fairly fragmented. There is little development within the compartment except for the Portage Bay State Forest Campground which increases the amount of use in the area.

Unique Natural Features:

Currently under review by Michigan Natural Features Inventory (MNFI).

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains which borders the western shore of Big Bay De Noc (Lake Michigan) contains Fishery Lake, Bog Lake, and Charboneau Lake. For all riparian areas, Best Management Practices should be followed.

Wildlife Habitat Considerations:

This compartment lies on the shores of Lake Michigan at Berndt and Portage Bays. The coast is lined with old beach ridges and interdunal wetlands which have been placed in the nomination for oldgrowth. Alvar dominates section 32. Presettlement data show the uplands contained a diverse mixture of white pine, hemlock, birch, beech, sugar maple and aspen. Lowlands were dominated by cedar with tamarack, spruce, and balsam fir scattered about. The current lowlands appear to be quite similar to circa 1850 conditions. The uplands, however, have shown a shift toward more aspen and less northern hardwoods. This compartment not only serves as an active deer yard, but also provides important resting areas for neo-tropical migrants after crossing Lake Michigan. Additionally the compartment contains sensitive habitats and plant species. As such, wildlife habitat management objectives are diverse ranging from maintaining coastal closed canopy coniferous forests to providing early successional deciduous forest and protecting unique alvar habitat and the associated plant community.

Mineral Resource and Development Concerns and/or Restrictions

A gravel pit is located in Section 20 and there may be some sand and gravel potential within the compartment. There may also be some limestone/dolostone potential. There is no known metallic mineral potential in this region, and there is no commercial oil and gas production in the UP.

Vehicle Access:

The compartment has poor access to the majority of the interior of the compartment due to lack of roads or gates on private land. However, due to the sensitive areas within the compartment this bodes well for management of those sensitive areas.

Survey Needs:

None at the present time.

Recreational Facilities and Opportunities:

The Portage Bay State Forest Campground is within the compartment located on Lake Michigan in section 33. The campground offers 31 rustic camping sites, a primitive boat launch and a hiking trail. The trail is called the Ninga Aki Pathway and is a 2 looped interpretive pathway which starts and ends within the campground. In addition the area gets a lot of recreational users including hunters, birdwatchers, berry pickers, ORV users and snowmobilers.

Fire Protection:

This area is nearly an hour away from the Thompson Station so response times to a wildfire will be lengthy, however, there is a small pumper located at Fayette State Park with 2 qualified firefighters which will help in getting personnel to a fire more quickly. The area has very rocky terrain and also contains some very sensitive areas. The Wooded Dune and Swale ERA plan should contain guidance on fire protection when the plan is completed. However, due to the moist microclimate that is created by Lake Michigan fire threats are relatively low.

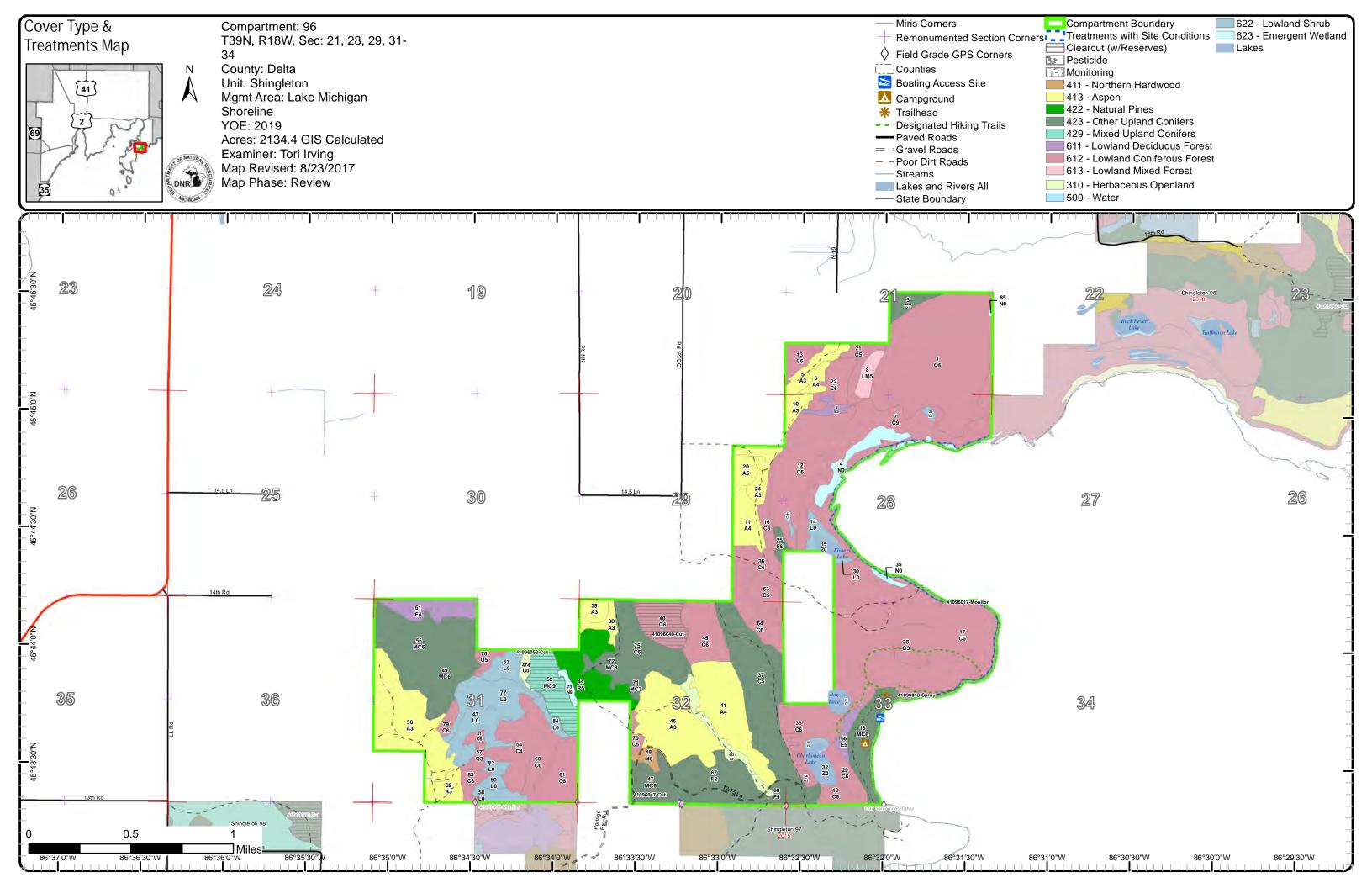
Additional Compartment Information:

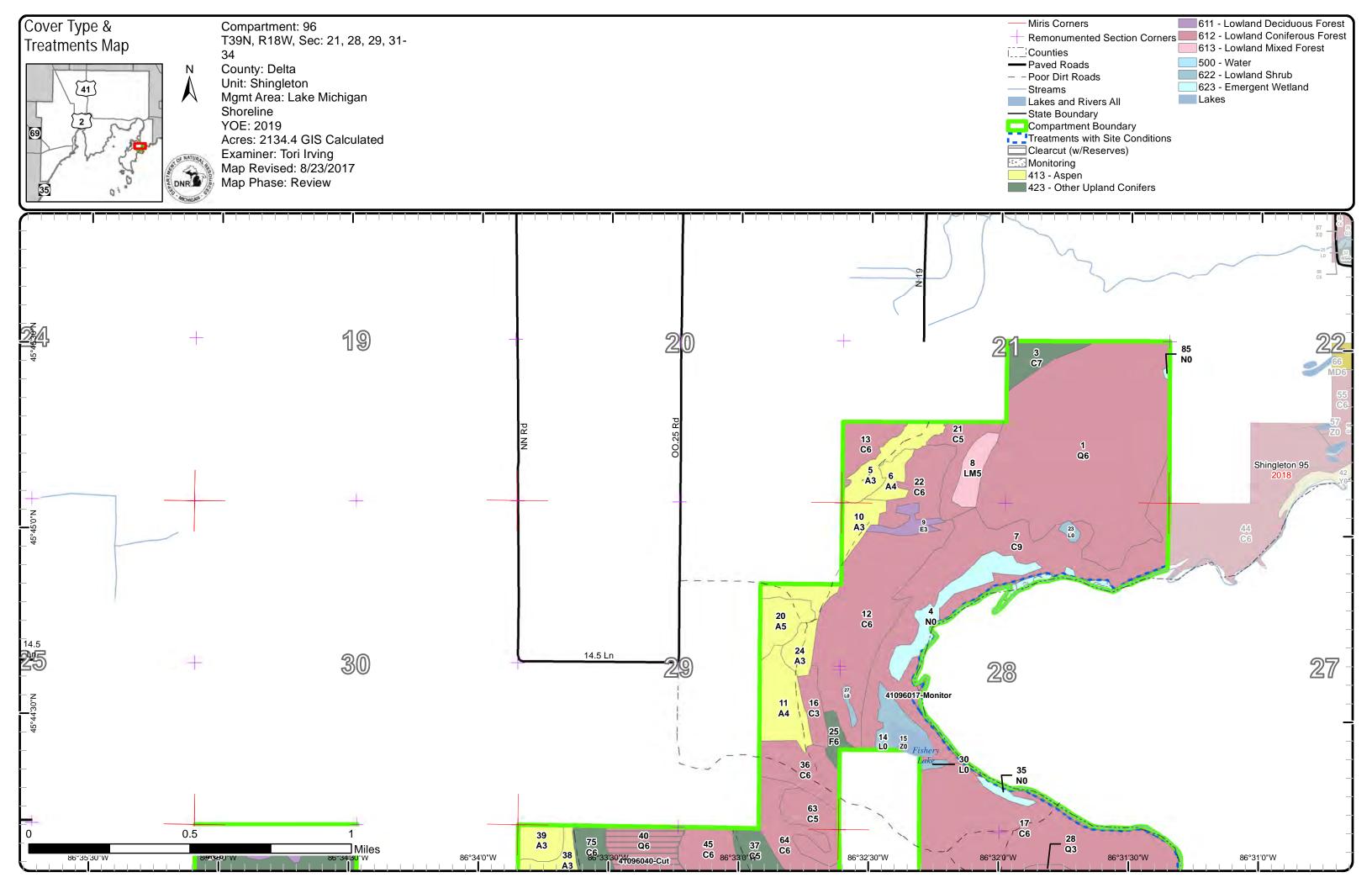
The following reports from the Inventory are attached:

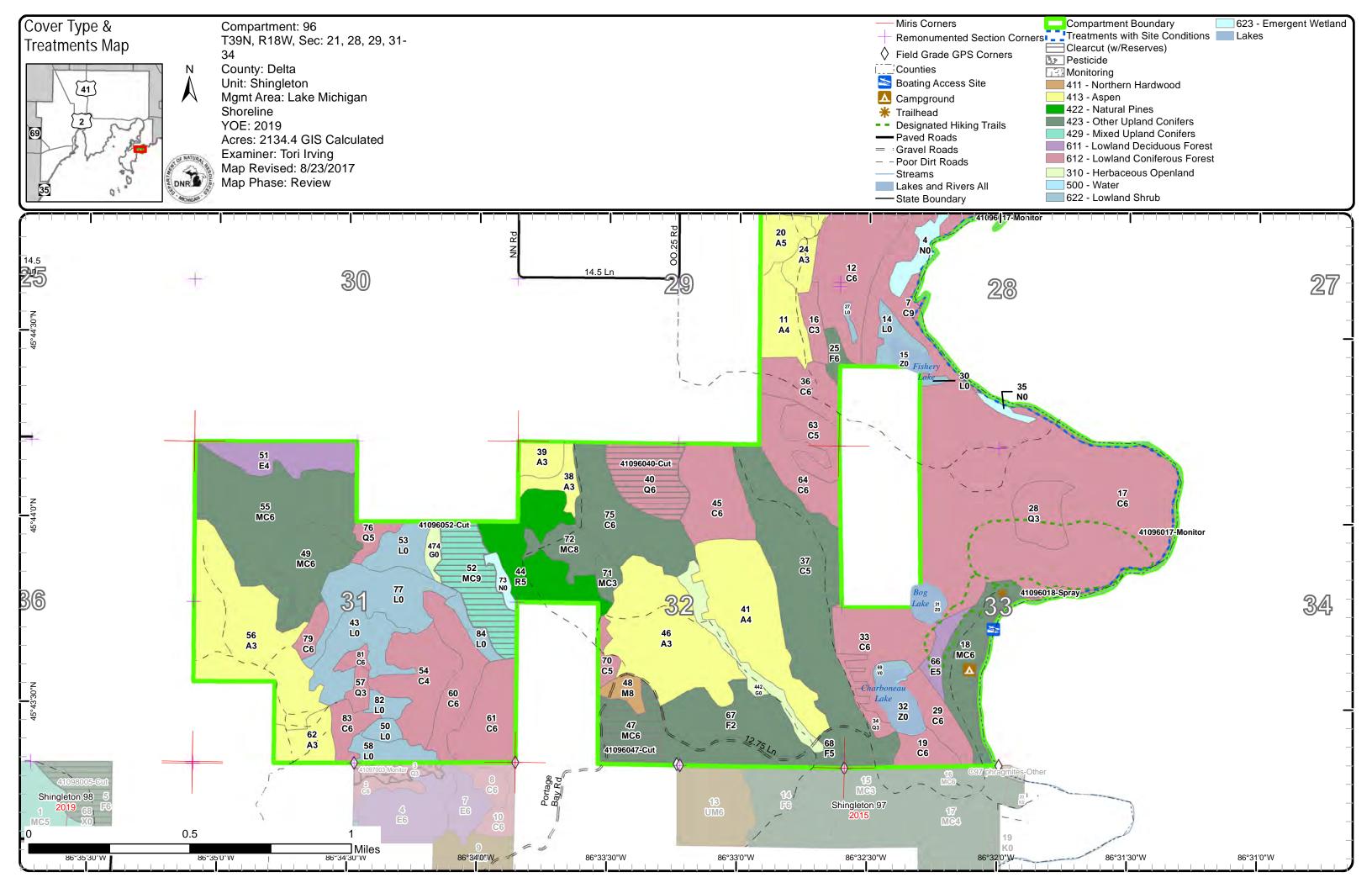
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

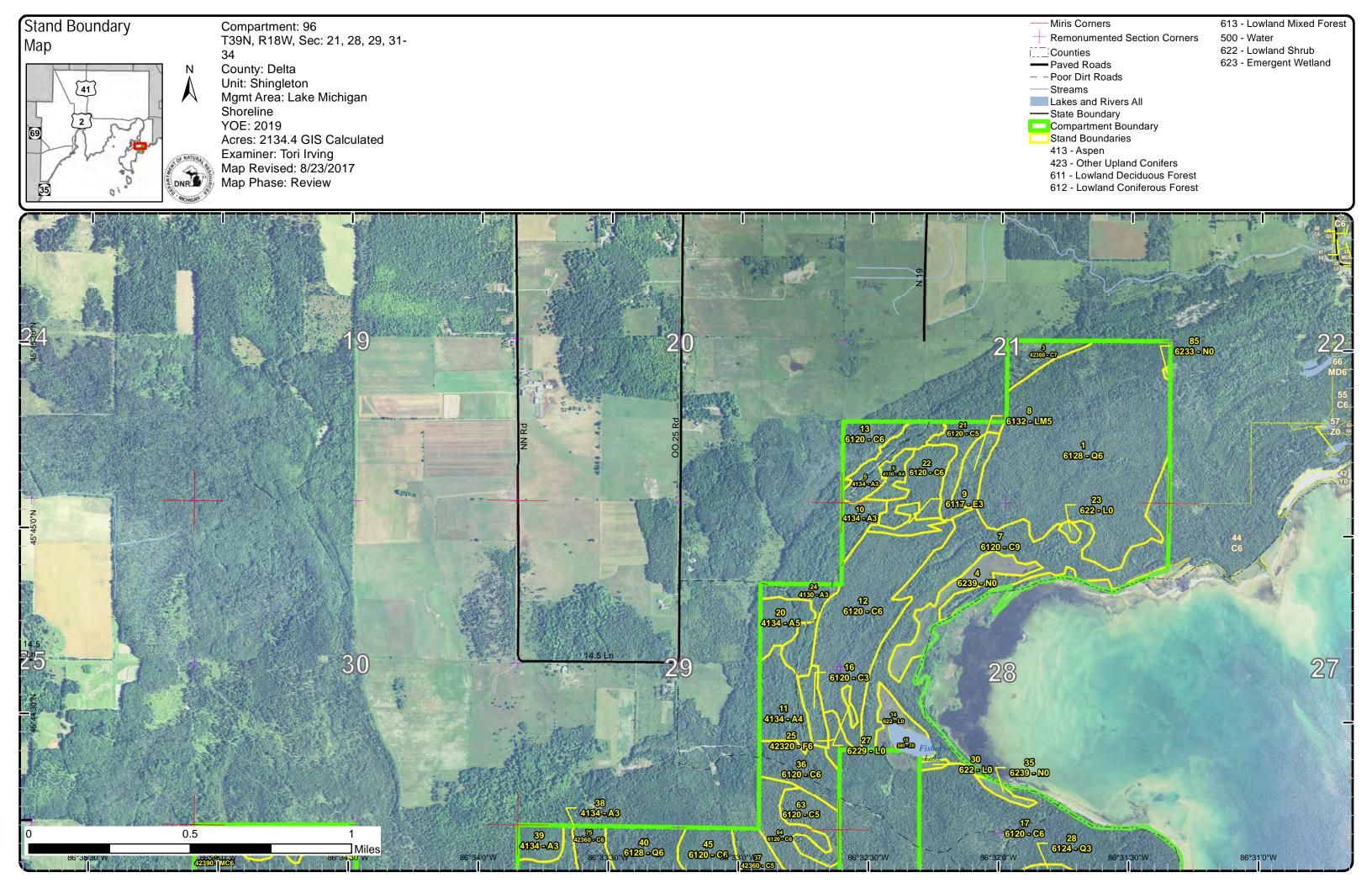
The following information is displayed, where pertinent, on the attached compartment maps:

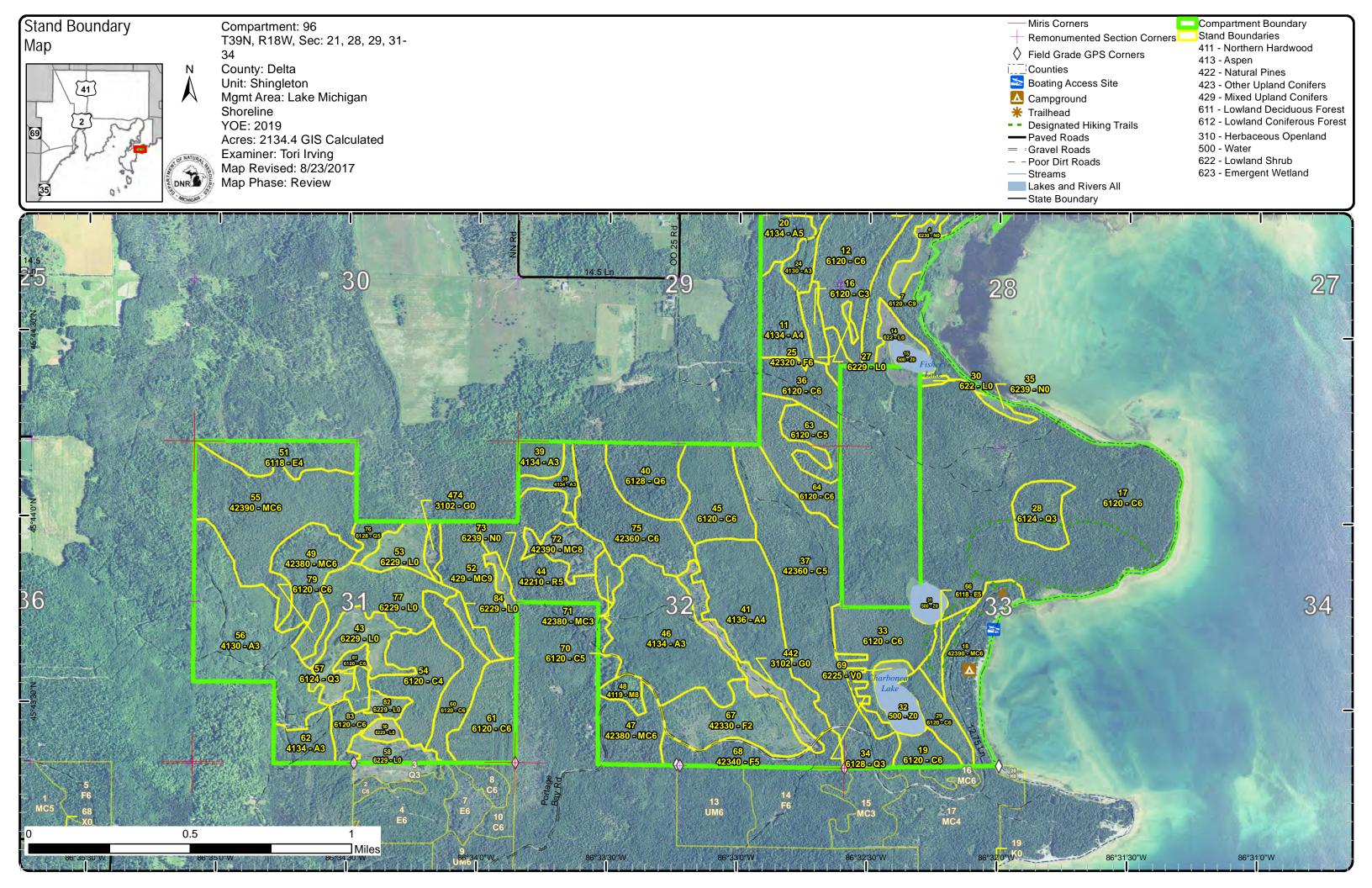
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

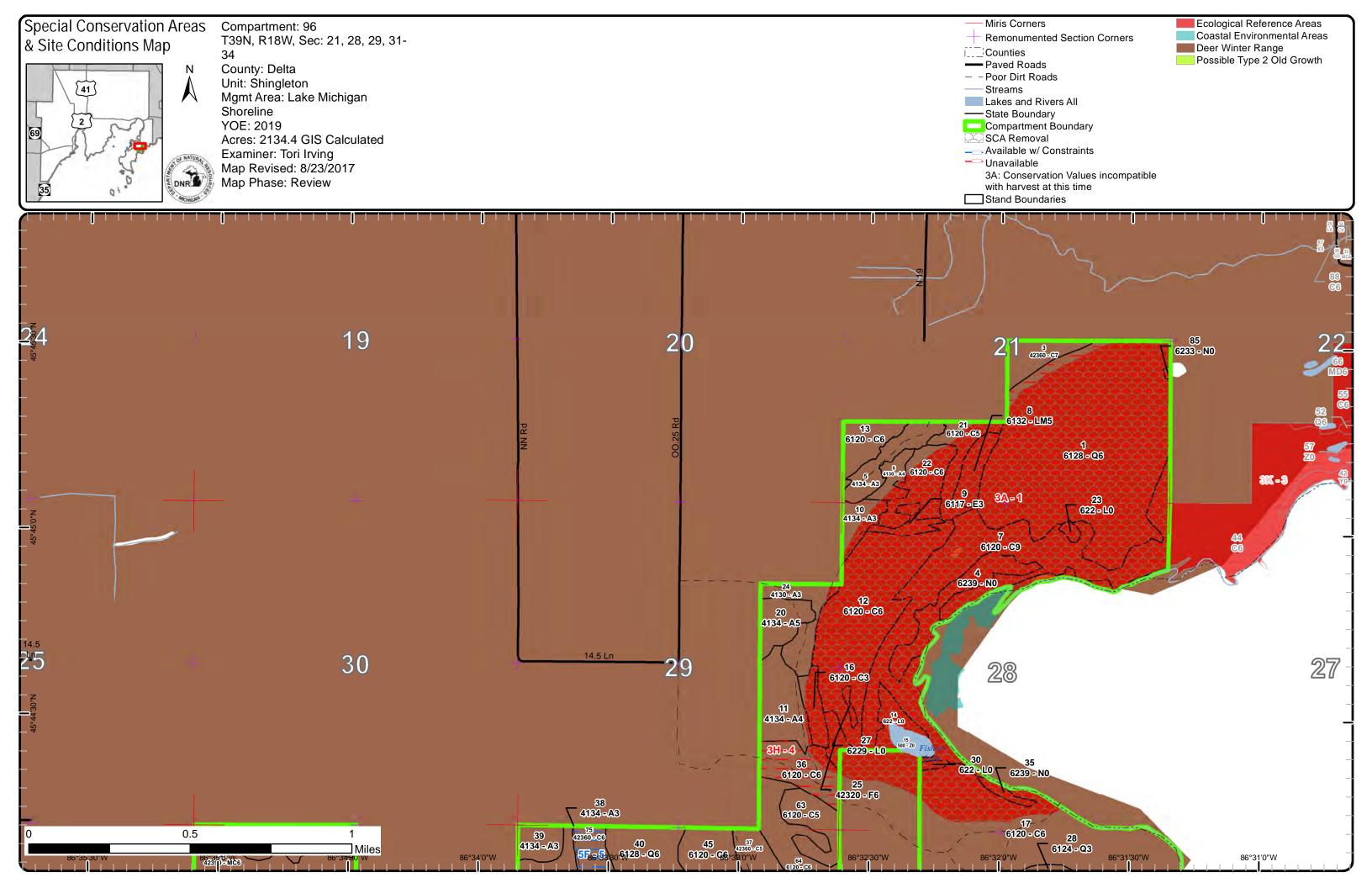


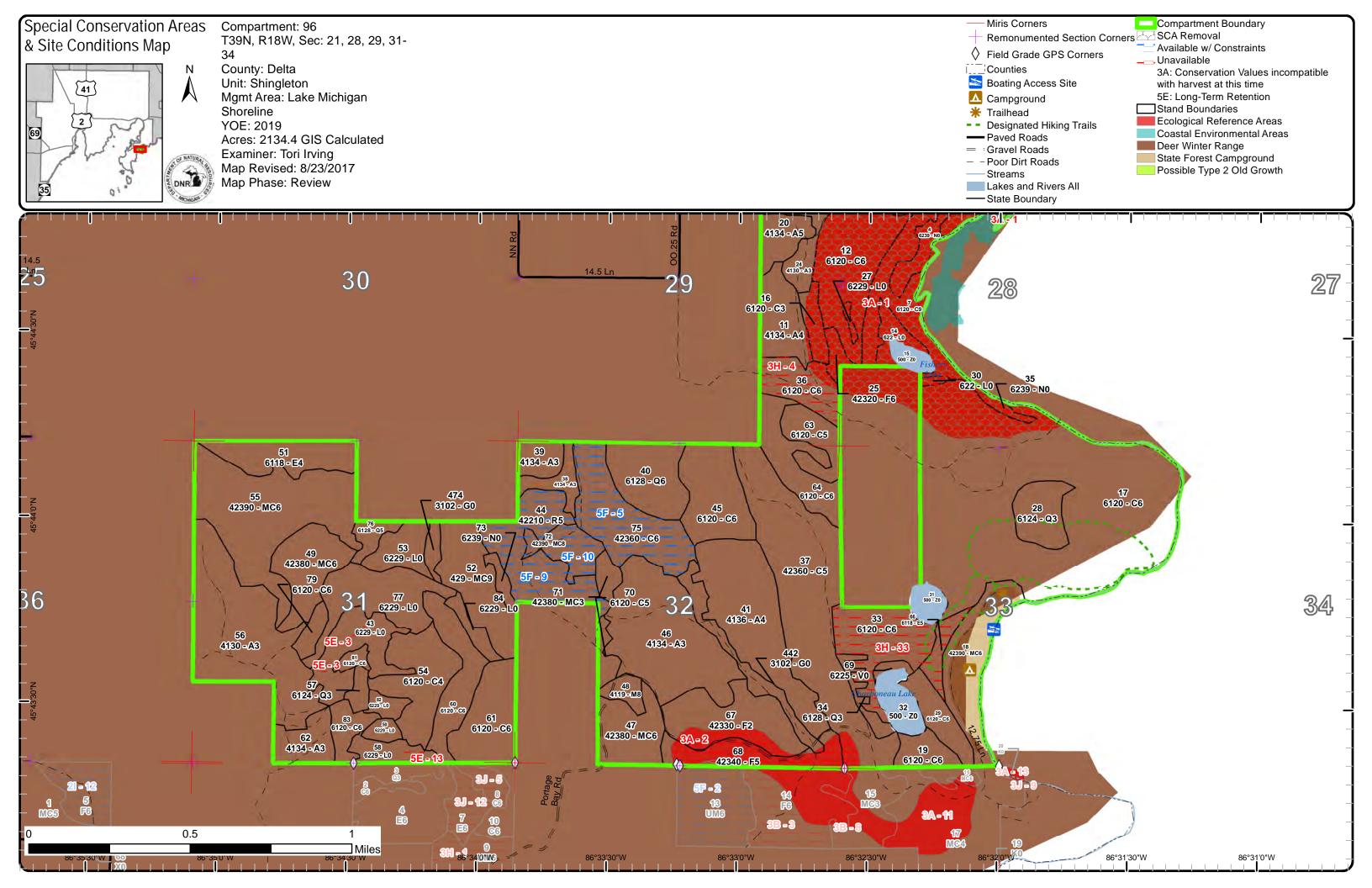












Compartment 96 Year of Entry 2019

Shingleton Mgt. Unit

Tori Irving: Examiner



Age Class

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Aspen	0	0	15	191	61	70	0	0	0	0	0	0	0	0	0	0	0	0	337
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	8	0	0	12	14	21	310	368	167	0	0	0	37	0	936
Herbaceous Openland	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Conifers	0	0	0	5	19	14	0	0	0	0	31	0	0	193	0	0	0	0	261
Lowland Deciduous	0	0	0	0	6	26	0	0	0	0	8	0	0	0	0	0	0	0	40
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Lowland Shrub	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
Marsh	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Red Pine	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	44
Upland Conifers	0	0	0	6	0	0	0	26	0	16	35	38	112	0	0	0	0	0	232
Upland Spruce/Fir	0	0	0	40	0	0	24	0	0	0	5	0	0	0	0	0	0	0	69
Water	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Total	200	0	15	242	94	110	24	82	14	47	389	406	279	193	0	0	37	7	2135



Report 2 – Treatment Summary

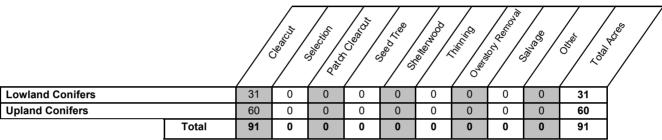
Shingleton Mgt. Unit Year of Entry: 2019

Acres of Harvest

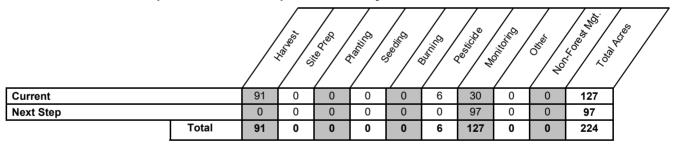
Compartment 96
Total Compartment Acres: 2,134

Commercial Harvest - 91 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Shingleton Mgt. Unit Report 3 -- Treatments Compartment: 96 s Year of Entry: 2019 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age **Approval** n Name Method Objective Structure Status d CoverType Density Age Range Type 41096017-6120 - Lowland Herbicide Use 6120 - Lowland 17 20.4 Poletimber 108 81-110 Monitoring Uneven-Proposal Monitor Cedar Well Cedar Aged **Habitat Cut: No Site Condition:** Conservation Values Prescription Treat stand for possible phragmites. Specs: Next Step Treatments: <u>Acceptable</u> Regen: **Other** Comment: **Proposed Start Date:** 08/17/2017 41096018-6.3 6120 - Lowland Poletimber 108 81-110 Pesticide Hand Application 6120 - Lowland Even-Aged Field Boundary Cedar Well Spray **Habitat Cut: No Site Condition:** Prescription continue to monitor and treat phragmites when needed Specs: Next Step Monitoring, Herbicide Use **Treatments:** Acceptable Regen: Other Percent to Treat = 100% Comment: **Proposed Start Date:** 02/25/2015 41096040-Cut 30.5 6128 - Lowland Poletimber 93 111_ 612 - Lowland Harvest Clearcut with Even-Aged Proposal Coniferous, Mixed Well 140 Retention Coniferous Deciduous Forest **Site Condition: Habitat Cut: No** Prescription Cut all trees. Leave a few scattered pockets in areas with thicker cedar. Specs: Monitoring, Natural Regen (Re-Inventory) Next Step Treatments: Acceptable A mix of species currently found on-site. Regen: Other Comment: **Proposed Start Date:** 10/01/2018 47 41096047-Cut 42380 - Non Pine Poletimber 25.7 61 51-80 Harvest Clearcut with 42380 - Non Even-Aged Proposal Upland Conifer, Well Retention Pine Upland Mixed Deciduous Conifer, Mixed Deciduous **Habitat Cut: No Site Condition:** Prescription Cut all trees. Leave a few scattered retention pockets in the areas that are thicker with cedar. Specs: Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable A mix of species currently found on-site. Regen:

10/01/2018

Other Comment:

Proposed Start Date:

Shingleton Mgt. Unit

Report 3 -- Treatments

Compartment: 96 Year of Entry: 2019 **Approval**

Treatment n Name d

41096052-Cut

CoverType 34.5 429 - Mixed Upland Sawtimber

Density Age

Stand

Size

Well

Type Range 171-Harvest

Treatment

BA

200

Clearcut with Retention

Treatment

Method

Objective 429 - Mixed **Upland Conifers**

Cover Type

Structure Even-Aged

Age

Status Proposal

Habitat Cut: No

Conifers **Site Condition:**

Stand

<u>Prescription</u> Cut all species. Leave some scattered retention pockets in thicker areas of cedar.

Specs:

s

t а

52

Monitoring, Natural Regen (Re-Inventory) Next Step

Acres

Treatments:

Acceptable A mix of species found onsite.

Regen: Other Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed:

117.4

Shingleton Mgt. Unit

Tori Irving: Examiner

Compartment: 96
Year of Entry: 2019

Availa	ability for	Managemer	nt						
Total	Acres	Acres Avail	Acres		Domina	nt Site	Con	ditions	5
Acres	Available	With Condition	Not Available		5F	3A	3H	3J	5E
338	330	0	8	Aspen		8			
3	3	0	0	Bog					
936	523	47	366	Cedar	47	252	56	58	
21	21	0	0	Herbaceous Openland		0			
260	68	0	193	Lowland Conifers		193			
40	26	0	14	Lowland Deciduous		6	8		
10	0	0	10	Lowland Mixed Forest		10			
118	101	0	17	Lowland Shrub		13			4
35	0	4	31	Marsh	4	31			
7	7	0	0	Northern Hardwood					
44	0	44	0	Red Pine	44				
231	216	16	0	Upland Conifers	16				
69	34	0	35	Upland Spruce/Fir		35			
23	18	0	5	Water		5			
2,134	1,345	110	679	Total Forested Acres	110	553	64	58	4
	63%	5%	32%	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
1	Unavailable	3A: Conservation Values incompatible with harvest at this time	519	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	34	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

Report 4 – Site Conditions

Shingleton Mgt. Unit
Tori Irving: Examiner

3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
5	Available	5F: Evaluated for Forest Health Considerations	47	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: pest to be schedule	ed during inventory due to surve	y issues,	, MNFI issues, and deer y	yard. fir is only a componen	t of the stand.	
9	Available	5F: Evaluated for Forest Health Considerations	44	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 10 sq. ft. balsam fir	in red pine stand					
10	Available	5F: Evaluated for Forest Health Considerations	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: fir is only a minor c	omponent of stand					
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

Report 4 – Site Conditions

Shingleton Mgt. Unit

	Tori	Irving : Examiner			Year of Entry: 2019						
33	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	45	Unspecified	Unspecified	Unspecified	Unspecified				
C	Comments:										

Compartment: 96

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Shingleton Mgt. Unit

Compartment: 096 Year of Entry: 2019



Report 5 - 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
Portage Bay	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	529
Comments				
Element Occurrence; Prop	osed removal			

Shingleton Mgt. Unit Compartment: 96
Year of Entry 2019



Report 6 – 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	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildle and Waterfowl Production Areas, deer wintering complexes in low openings 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 endangered species, and are not
HCVA	Coastal Environmental Areas	The public designation process is defined by Part 323, Shoreland Natural Resources and Environmental Protection Act, 1994 PA 4 Michigan Department of Environmental Quality (DEQ). This is an currently under consideration by the DEQ.	51. The program is administered by 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. Element (Excellent) or B (Good) and a Global (G) or State (S) element (ra threatened (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 p submit recommendations for lands as ERAs using the DNR Constitution.	Il Features Inventory (MNFI) within the Cocurrences with viability ranks of A rity) ranking of endangered (1), may be located upon any ownership in of natural community types that are processes and values. The public may

s t	Shingleton Mgt. Unit			Report 7	- Forested	Stands Compartment: 96 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	192.7	121	141-170	
3	42360 - Upland Cedar	Sawtimber Poor	12.3	60	1-50	[9/21/09 BB] Sale is now on proposal, 41-15-09 Wooded Dune & Swale Sale. Actual acres = 12. Red Paint line was put at the top of ridge to protect the Wooded Dune and Swale ERA, this created a 5 acre reduction which is retention. Residual BA = Cedar 34 sq ft, hemlock .6 sq ft, white pine 1.8 sq ft. FTP W41-1417 submitted to underplant oak.
						[7/19/11 AP] Sale is now closed, TCR date is 6/22/11. Cut winter 2011.
5	4134 - Aspen, Spruce/Fir	Sapling Well	15.0	18	Immature	
6	4130 - Aspen	Poletimber Poor	6.9	40	1-50	
7	6120 - Lowland Cedar	Sawtimber Well	103.8	102	81-110	OPIC - FMD: ERA - Wooded Dune Swale Complex HCVA - Environmental Area SCA- POG Nominated in 1997 for Lakeshore protection and integrity as well as wildlife corridor. SCA - Deeryard Some white pine within stand not showing up well on plots.
8	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	10.2	88	1-50	
9	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	5.9	38	Unspecified	
10	4134 - Aspen, Spruce/Fir	Sapling Well	9.7	24	Immature	
11	4134 - Aspen, Spruce/Fir	Poletimber Poor	22.7	30	Immature	
12	6120 - Lowland Cedar	Poletimber Well	78.0	95	171-200	
13	6120 - Lowland Cedar	Poletimber Well	13.5	70	81-110	
16	6120 - Lowland Cedar	Sapling Well	8.3	39	1-50	Stand contains some old strip cuts.
17	6120 - Lowland Cedar	Poletimber Well	248.7	108	81-110	_
18	42390 - Mixed Non- Pine Upland Conifers	Poletimber Well	37.9	108	141-170	Portage Bay Campground. Phragmites was sprayed by UP RDD in summer 2013. stewardship record in Wyman compartment files

S t	Shingleton	Mgt. Unit		Report 7	– Forested St	ands	Compartment: 96 Year of Entry: 2019	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	MICHIGAN
19	6120 - Lowland Cedar	Poletimber Well	10.9	97	141-170			
20	4134 - Aspen, Spruce/Fir	Poletimber Medium	13.4	37	1-50			
21	6120 - Lowland Cedar	Poletimber Medium	14.5	117	1-50			
22	6120 - Lowland Cedar	Poletimber Well	20.0	99	141-170			
24	4130 - Aspen	Sapling Well	15.9	24	Immature			
25	42320 - Upland Spruce	Poletimber Well	5.0	91	51-80			
28	6124 - Lowland Spruce- Fir	Sapling Well	19.0	35	1-50			
29	6120 - Lowland Cedar	Poletimber Well	15.3	108	111-140			
33	6120 - Lowland Cedar	Poletimber Well	36.8	175	141-170			
34	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	6.8	41	Unspecified			
36	6120 - Lowland Cedar	Poletimber Well	21.3	81	111-140			
37	42360 - Upland Cedar	Poletimber Medium	106.8	93	1-50			
38	4134 - Aspen, Spruce/Fir	Sapling Well	9.1	25	Immature			
39	4134 - Aspen, Spruce/Fir	Sapling Well	9.7	36	Unspecified			
40	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	30.5	93	111-140			
41	4136 - Aspen, Mixed Conifer	Poletimber Poor	63.5	41	1-50			
44	42210 - Natural Red Pine	Poletimber Medium	43.8	61	51-80			
45	6120 - Lowland Cedar	Poletimber Well	35.8	93	51-80			

S t	Shingleton	n Mgt. Unit		Report 7	′ – Forested	Stands Compartment: 96 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4134 - Aspen, Spruce/Fir	Sapling Well	74.1	25	Immature	
47	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	25.7	61	51-80	
48	4119 - Mixed Northern Hardwoods	Sawtimber Medium	6.6	90	51-80	[9/21/09 BB] Sale is now on proposal 11-09 Portage Bay Sale, Unit 6, 7 acres. Stand is on FTP W41-1436 for hemlock underplanting.
						[8/20/2014 TI] This stand was cut as part of sale #41-011-09-01 Portage Bay Road. Sale is now closed. TCR date 6/9/2014.
49	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	28.7	110	111-140	
51	6118 - Lowland Deciduous with Cedar	Poletimber Poor	26.3	40	1-50	
52	429 - Mixed Upland Conifers	Sawtimber Well	34.5	93	171-200	
54	6120 - Lowland Cedar	Poletimber Poor	35.6	92	1-50	
55	42390 - Mixed Non- Pine Upland Conifers	Poletimber Well	83.1	110	141-170	
56	4130 - Aspen	Sapling Well	82.2	22	Immature	
57	6124 - Lowland Spruce- Fir	Sapling Well	4.7	22	Immature	
60	6120 - Lowland Cedar	Poletimber Well	26.8	116	171-200	
61	6120 - Lowland Cedar	Poletimber Well	31.3	115	111-140	
62	4134 - Aspen, Spruce/Fir	Sapling Well	15.5	35	Unspecified	
63	6120 - Lowland Cedar	Poletimber Medium	16.9	92	51-80	
64	6120 - Lowland Cedar	Poletimber Well	27.3	110	141-170	
66	6118 - Lowland Deciduous with Cedar	Poletimber Medium	8.2	90	1-50	

s t	Shingletor	n Mgt. Unit		Report 7	– Forested	Stands Compartment: 96 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	42330 - Upland Fir	Sapling Medium	40.0	25	Immature	OPIC - FMD: SCA - Deeryard Stand was cut around 1992. Soils are Limestone Rock very poor. The area is regenerating with fir but slowly.
68	42340 - Upland Spruce/Fir	Poletimber Medium	24.0	54	51-80	
70	6120 - Lowland Cedar	Poletimber Medium	5.7	92	1-50	[9/21/09 BB] Sale is now on proposal 11-09 Portage Bay Sale, Unit 5, 5 acres. Residual basal area = white pine 8.3 sq ft, hemlock 5 sq ft, cedar 28.3 sq ft, yellow birch 3.3 sq ft Stand is on FTP W41-1436 for hemlock underplanting.
						[8/20/2014 TI] This stand was cut as part of sale #41-011-09-01 Portage Bay Road. Sale is now closed. TCR date 6/9/2014.
71	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	5.6	25	Immature	OPIC - FMD: SCA - Deeryard No soils available, Limestone Rock. Some residual cedar and aspen in stand, aspen is snagging out. Lots of fir regen.
72	42390 - Mixed Non- Pine Upland Conifers	Sawtimber Medium	15.6	82	51-80	
75	42360 - Upland Cedar	Poletimber Well	46.8	110	51-80	
76	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	6.7	40	1-50	
79	6120 - Lowland Cedar	Poletimber Well	6.1	110	171-200	
81	6120 - Lowland Cedar	Poletimber Well	3.4	110	Unspecified	
83	6120 - Lowland Cedar	Poletimber Well	10.2	110	Unspecified	



Stand	Cover Type	Acres	Managed Site	General Comments:
4	6239 - Mixed Emergent Wetland	27.1	No	OPIC - FMD: ERA - Wooded Dune Swale Complex HCVA - Environmental Area SCA- POG Nominated in 1997 for Lakeshore protection and integrity as well as wildlife corridor. SCA - Deeryard
				Stand consists of a mix of L and N types. At one time the stand was part of Lake Michigan. Some areas are starting to regenerate with cedar and tamarack. Stand is N overall.
14	622 - Lowland Shrub	8.6	No	
15	500 - Water	4.7	No	Fishery Lake
23	622 - Lowland Shrub	1.7	No	OPIC - FMD: ERA - Wooded Dune Swale Complex HCVA - Environmental Area SCA- POG Nominated in 1997 for Lakeshore protection and integrity as well as wildlife corridor. SCA - Deeryard
27	6229 - Mixed lowland shrub	1.5	No	Stand was at one time likely ponds but have dried up some over the past decades and are beginning to regenerate.
30	622 - Lowland Shrub	1.4	No	
31	500 - Water	5.6	No	Bog Lake
32	500 - Water	12.2	No	Charboneau Lake
35	6239 - Mixed Emergent Wetland	3.1	No	OPIC - FMD: ERA - Wooded Dune Swale Complex HCVA - Environmental Area SCA- POG Nominated in 1997 for Lakeshore protection and integrity as well as wildlife corridor. SCA - Deeryard
43	6229 - Mixed lowland shrub	28.1		[6/13/2017 TI] Stand is coming in slowly. Mostly balsam fir and scattered red maple. [8/20/2014 TI] This stand was cut as part of sale #41-011-09-01 Portage Bay Road. Sale is now closed. TCR date 6/9/2014.
50	6229 - Mixed lowland shrub	4.3		[9/21/09 BB] Sale is now on proposal 11-09 Portage Bay Sale, Unit 4, 4 acres. Cedar was excluded with red line. [8/20/2014 TI] This stand was cut as part of sale #41-011-09-01 Portage Bay Road. Sale is now closed. TCR date 6/9/2014.



Stand	Cover Type	Acres	Managed Site	General Comments:
53	6229 - Mixed lowland shrub	14.5		[9/21/09 BB] Sale is now on proposal 11-09 Portage Bay Sale, Unit 1, 13 acres. Retention occurs on the edges.
				[8/20/2014 TI] This stand was cut as part of sale #41-011-09-01 Portage Bay Road. Sale is now closed. TCR date 6/9/2014.
58	6229 - Mixed lowland shrub	10.6		[9/21/09 BB] Sale is now on proposal 11-09 Portage Bay Sale, Unit 4, 8 acres. Residual basal area = red pine .5 sq ft (all), white pine 1 sq ft in addition 2.5 acres were left as a patch.
				[8/20/2014 TI] This stand was cut as part of sale #41-011-09-01 Portage Bay Road. Sale is now closed. TCR date 6/9/2014.
69	6225 - Bog	2.6	No	OPIC - FMD: SCA- POG Nominated in 1997 for Lakeshore protection and integrity as well as wildlife corridor. SCA - Deeryard
73	6239 - Mixed Emergent Wetland	4.2	No	OPIC - FMD: SCA - Deeryard
77	6229 - Mixed lowland shrub	36.3		Spruce, cedar, and tamarack are acceptable regeneration species.
				[9/21/09 BB] Sale is now on proposal 11-09 Portage Bay Sale, Unit 2, 22 acres. Residual basal area = 7 sq ft white birch, additional tamarack were excluded with paint line.
				[8/20/2014 TI] This stand was cut as part of sale #41-011-09-01 Portage Bay Road. Sale is now closed. TCR date 6/9/2014.
82	6229 - Mixed lowland shrub	4.9		OPIC - FMD: SCA - Deeryard Fairly even composition of swamp conifers. Retention should be thicker patches of cedar. Any of the current species mix will be an acceptable alternative for regenerating the stand.
				[1/12/09 BB] Due to comments from MNFI for the stands prescribed in this compartment for the 2009 YOE Compartment Review a survey request was submitted to attempt to root out if any of the "potential" rare plants were actually within the prescribed stands as well as the endangered Calypso Orchid. The request was funded and a survey was conducted in the fall of 2008 by MNFI field staff. MNFI did not survey for the orchid since it was the wrong time of year but they did survey for Dwarf Lake Iris but only in stand 48 and Stand 16 Compartment 97. The results of the survey were they found Dwarf Lake Iris in openings outside of the prescribed stands. In addition, MNFI found a significant population of Glossy Buckthorn an invasive species. After discussions with MNFI they agreed that winter cutting would not impact the Dwarf Lake Iris and though they did not survey for Calypso Orchid it likely is not the right habitat for it and again winter logging would not adversely effect it. However, MNFI was concerned about cutting the stand which may allow the buckthorn to take over the site. There is no access to the area currently so any buckthorn would have likely been established through a wildlife vector. Without access there is no way to treat the invasive therefore in discussions with Mike Paluda and Jeff Stampfly it was agreed to cut the stands, establish the access and monitor the buckthorn after harvest. See the compartment file for more detailed information. [9/21/09 BB] Sale is now on proposal 11-09 Portage Bay Sale, Unit 4, 3 acres. Retention was entirely excluded with paint line.
				[8/20/2014 TI] This stand was cut as part of sale #41-011-09-01 Portage Bay Road. Sale is now closed. TCR date 6/9/2014.

Report 8 - Nonforested Stands



Stand	Cover Type	Acres	Managed Site	General Comments:
84	6229 - Mixed lowland shrub	6.3	No	OPIC - FMD: SCA - Deeryard
85	6233 - Wet Meadow	0.5	No	
442	3102 - Grass	16.6	No	OPIC - FMD: SCA - Deeryard Stand is essentially a flat drainage which is filling in with aspen and fir.
474	3102 - Grass	4.5	No	OPIC - FMD: SCA - Deeryard Stand is an old grass type beginning to fill in with fir and cedar. Some juniper bushes as well. 2 blinds in stand and a lot of illegal supplemental feeding as well. 2 Round bales present, delivered from private to north. Could possibly do opening maintenance this decade?