



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41067

Entry Year 2025

Acreage: 1,306

County Schoolcraft

Management Area: St. Ignace Lake Plain

Stand Examiner: Thomas Burnis

Legal Description:

T41N R13W Sections 15,16,17,18

Identified Planning Goals:

The goals in this compartment are to protect the integrity of the natural resource for now and future generations.

Soil and topography:

Topography is a sand-ridge complex bordering Lake Michigan. Predominate soils are Seney on the pine ridges and rifle in the lows.

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

Mostly state with some private fragmentation and hunting camps.

Unique Natural Features:

See MNFI data base.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The West portion of the compartment is listed as critical dunes. Most of the rest of the compartment falls under the dune and swale complex.

Watershed and Fisheries Considerations:

The northcentral region of this compartment contains several unnamed inland waterbodies. The southern region of this compartment borders Lake Michigan. 100-foot, plus 5 feet per 1% increase in slope, buffers are recommended for these waterbodies to protect these areas in accordance with Best Management Practices.

The northeastern region of this compartment contains an unnamed, undesignated stream less than 50-foot wide that has a predicted mean July temperature of 58.6°F (cold stream). A 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended for the unnamed stream to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies within the St. Ignace ecological sub-subsection. The dune/swale ecosystem is the dominant feature. Early surveyors noted white pine, red pine, hemlock, aspen, white birch, and red maple in the uplands. In the lowlands, spruce, balsam fir, hemlock, tamarack, and cedar were recorded. Current species composition is similar to pre-settlement times. In many places, forest structure may also assimilate pre-settlement conditions. The wildlife habitat objectives in this compartment include protection of the dune/swale system, maintaining closed canopy forest with old growth characteristics, and providing staging areas for migrating warblers. Wildlife species of special interest potentially utilizing this compartment include several species of warblers and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Sections 15-18, T41N-R13W, Schoolcraft County

No known potential exists for commercial oil & gas production in this part of the state. Two oil & gas test wells were drilled just south of the compartment. Both were dry holes. There is no known metallic mineral potential in this area. The nearest known active sand/gravel pit is several miles away. The west half of the compartment is a designated Critical Dune Area and would not be open to mineral leasing. Much of the rest of the compartment is dominated by wetlands, which would inhibit significant surface mining. Carmeuse's southern Port Inland Quarry and port is just one mile northeast, and Graymont's lime plant is just next door. Potential for bedrock mining within the compartment is considered low. No current mineral leasing activity exists in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

County road 431 runs north-south through the center of section 16. A two track road gives limited access into the western portion of the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no developed recreation facilities within this compartment.

Fire Protection:

May be difficult due to limited access.

Additional Compartment Information:

The following reports from the Inventory are attached:

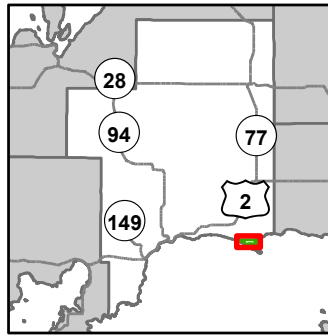
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

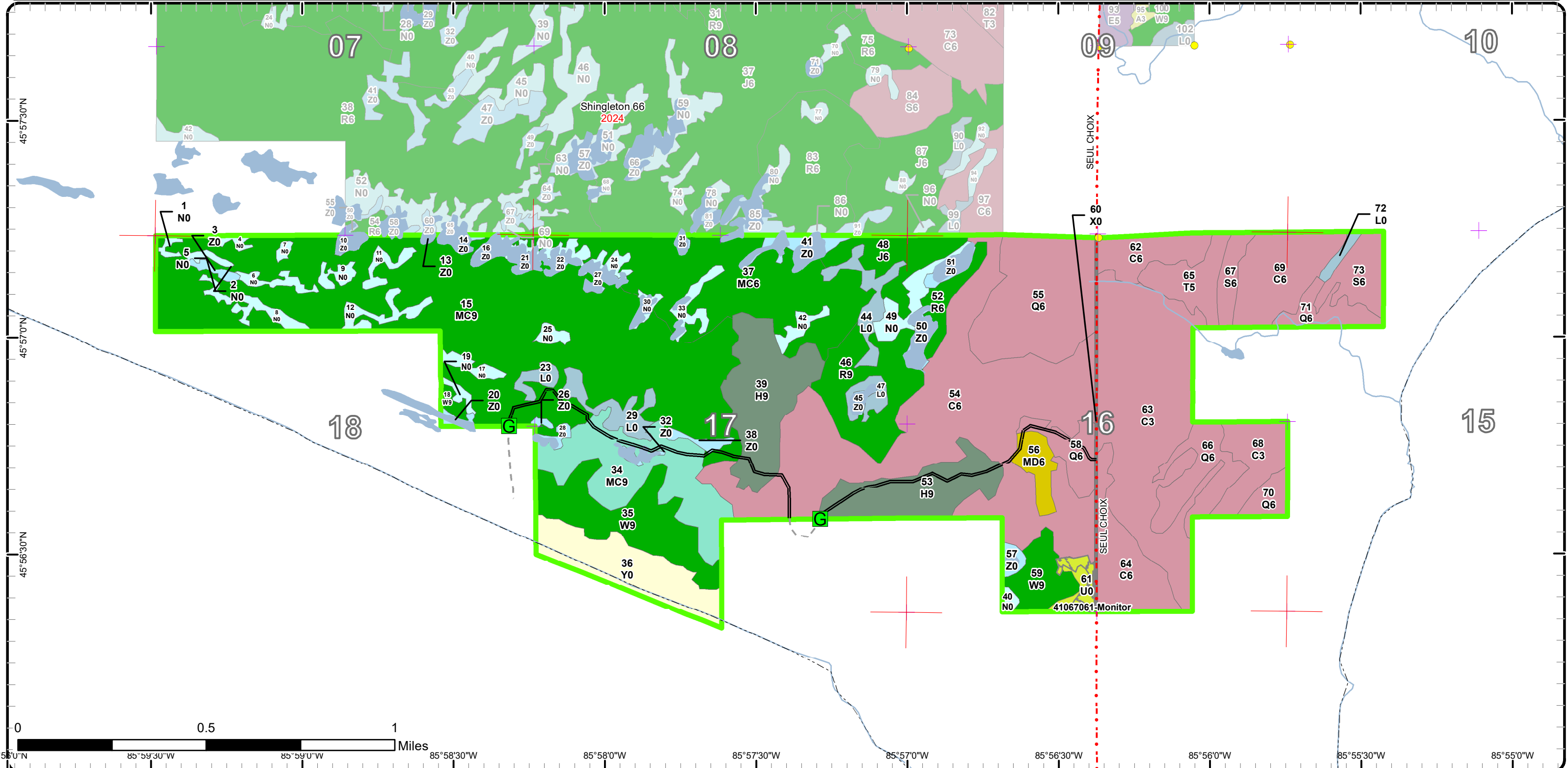
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 67
 T41N, R13W, Sec: 15-18
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: St. Ignace Lake Plain
 YOE: 2025
 Acres: 1306.3 GIS Calculated
 Examiner: Thomas Burnis
 Map Revised: 8/21/2023
 Map Phase: Review

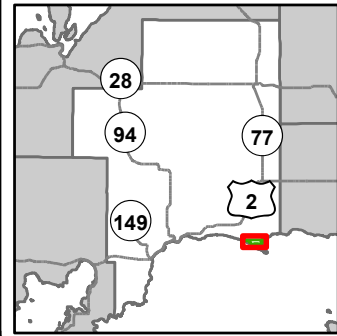


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- - - County - Gravel Road
- - - Private - Dirt / Gravel Road
- G Gate
- Island in Lake or River
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- ▭ Compartment Boundary
- ▭ 419 - Mixed Upland Deciduous
- ▭ 422 - Natural Pines
- ▭ 423 - Other Upland Conifers
- ▭ 429 - Mixed Upland Conifers
- ▭ 612 - Lowland Coniferous Forest
- ▭ 122 - Roads/Parking Lot
- ▭ 330 - Low Density Trees
- ▭ 500 - Water
- ▭ 622 - Lowland Shrub
- ▭ 623 - Emergent Wetland
- ▭ 710 - Sand/Soil
- ▭ Regeneration Survey

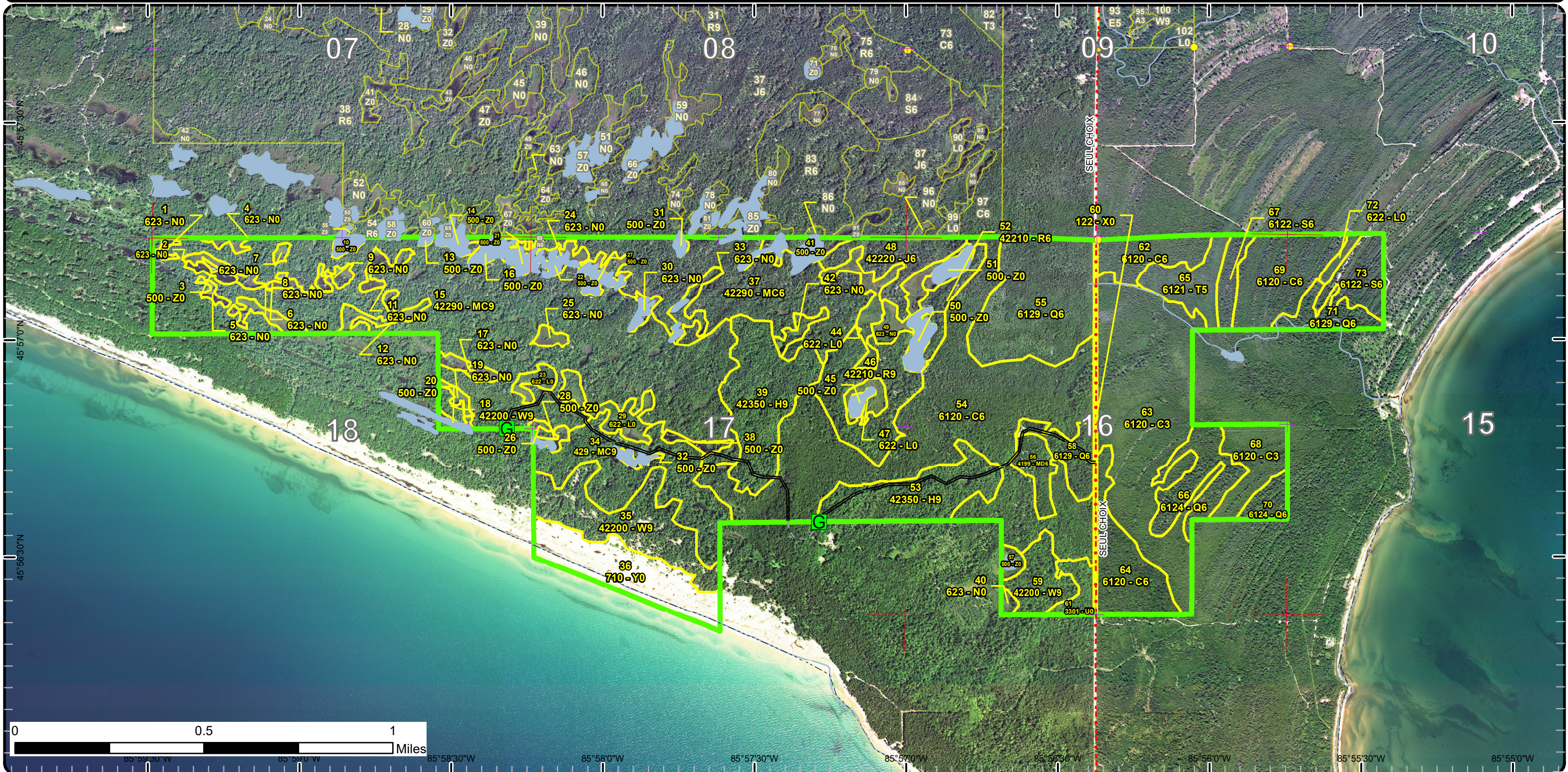


Stand Boundary Map

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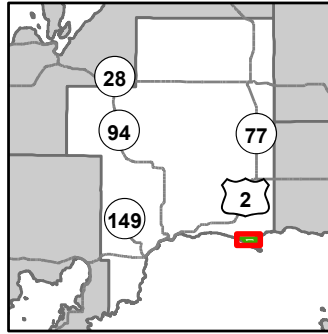


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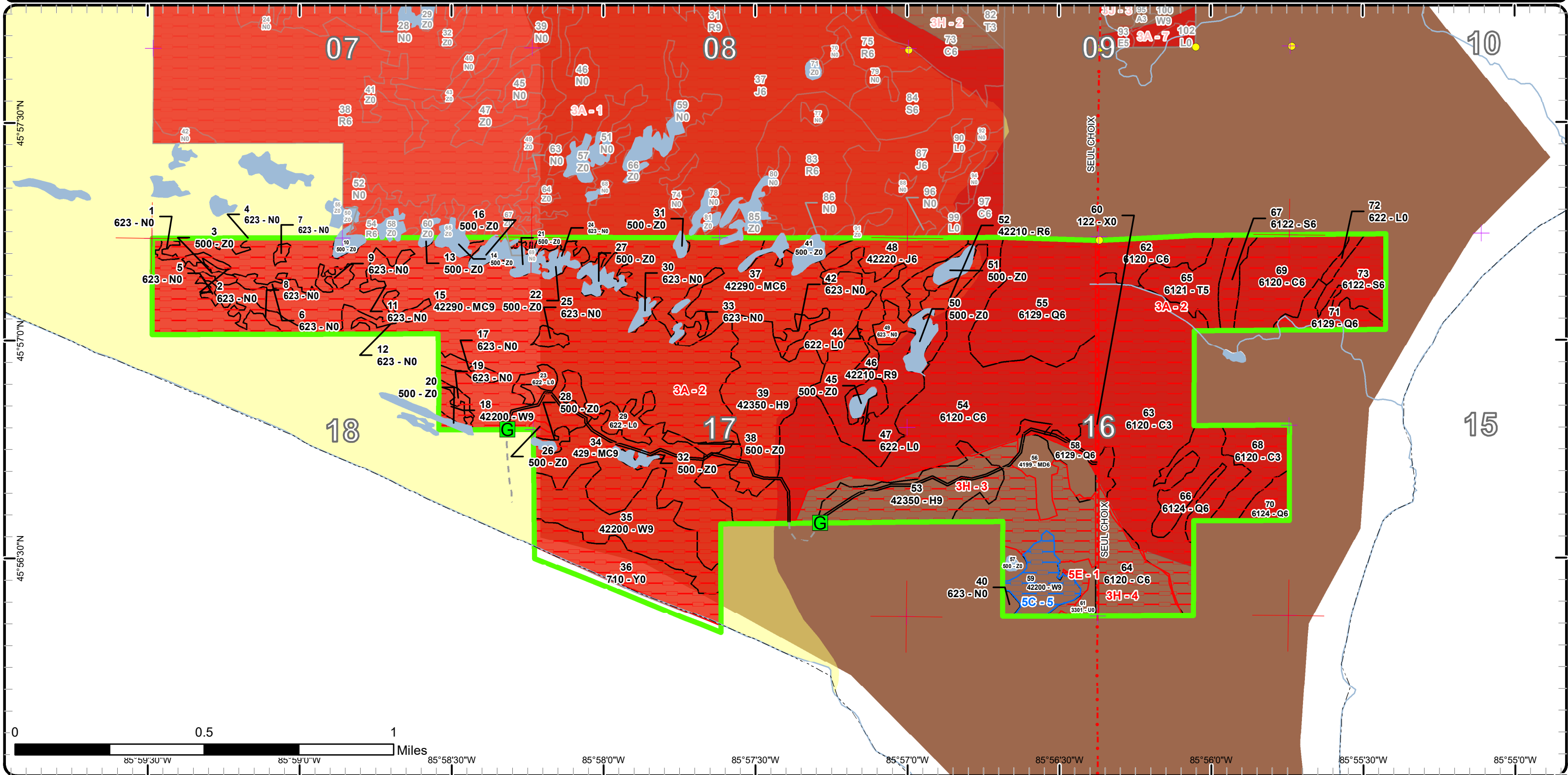


Special Conservation Areas

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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Critical Dunes
- Deer Winter Range





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Cedar	0	0	0	0	0	0	0	104	0	19	0	0	76	172	0	0	0	0	371
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	34	0	0	44	0	78
Jack Pine	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	58	12	0	11	30	0	0	0	0	0	0	111
Lowland Shrub	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Spruce/Fir	0	0	0	0	0	0	0	16	0	0	8	0	0	0	0	0	0	0	24
Marsh	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Mixed Upland Deciduous	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Natural Mixed Pines	0	0	0	0	0	0	0	0	85	0	256	0	0	0	0	0	0	0	340
Red Pine	0	0	0	0	0	0	0	0	9	0	0	0	33	0	0	0	0	0	42
Sand, Soil	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Tamarack	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	17
Upland Conifers	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	50
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	41	18	0	0	0	0	59
Total	186	0	0	0	0	0	0	204	106	39	325	30	150	224	0	0	44	0	1307



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 67
Total Compartment Acres: 1,306

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	5	0	0	5	
Total	0	0	0	0	0	5	0	0	5	



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

61	41067061-Monitor	4.5	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> check regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed deciduous and conifer.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2032</p>											

Total Treatment Acreage Proposed: 4.5

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 67
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				5C	3A	3H	5E	
370	1	0		370	Cedar		304	66		
78	0	0		78	Hemlock		45	33		
20	0	0		20	Jack Pine		20			
7	5	0		2	Low-Density Trees	0				2
111	6	0		105	Lowland Conifers		104	0		
31	0	0		31	Lowland Shrub		31			
24	0	0		24	Lowland Spruce/Fir		24			
63	1	0		61	Marsh		61			
9	9	0		0	Mixed Upland Deciduous					
340	0	0		340	Natural Mixed Pines		340			
42	0	0		42	Red Pine		42			
36	7	0		29	Sand, Soil		29			
17	0	0		17	Tamarack		17			
50	0	0		50	Upland Conifers		50			
5	5	0		0	Urban					
44	4	0		41	Water		41			
59	0	15		44	White Pine	15	44			0
1,306	39	15		1,252	Total Forested Acres	15	1,151	100		2
	3%	1%		96%	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	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dune and Swale							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	1,151	Unspecified	Unspecified	Unspecified	Unspecified
Comments: WDS ERA							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Thomas Burnis : Examiner

Compartment: 67
 Year of Entry: 2025

3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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
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Comments



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.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
HCVA	Critical Dunes	Critical dune areas are established via the public legislative process, and governed by Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). The current distribution of designated critical dunes is established by the DEQ 1989 Atlas of Critical Dune Areas.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	623 - Emergent Wetland	Nonstocked	1.2			No	
2	623 - Emergent Wetland	Nonstocked	1.6			No	
3	500 - Water	Nonstocked	1.9			No	
4	623 - Emergent Wetland	Nonstocked	1.7			No	
5	623 - Emergent Wetland	Nonstocked	1.4			No	
6	623 - Emergent Wetland	Nonstocked	3.1			No	
7	623 - Emergent Wetland	Nonstocked	1.0			No	
8	623 - Emergent Wetland	Nonstocked	4.2			No	
9	623 - Emergent Wetland	Nonstocked	2.7			No	
10	500 - Water	Nonstocked	2.0			No	
11	623 - Emergent Wetland	Nonstocked	3.4			No	
12	623 - Emergent Wetland	Nonstocked	5.6			No	
13	500 - Water	Nonstocked	0.4			No	
14	500 - Water	Nonstocked	2.2			No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
15	42290 - Natural Mixed Pine	Sawtimber Well	255.6	96	111-140	N/A	Large stand of mixed pine, mostly white pine. Cannot determine smaller stand types from photo. Non forested ares lumped into this stand that are too numerous and small to type out.																																																	
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35	42200 - Natural White Pine	Sawtimber Well	40.9	119	51-80	N/A																																			
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36	710 - Sand, Soil	Nonstocked	36.1			No																																			



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37	42290 - Natural Mixed Pine	Poletimber Well	84.5	76	141-170	N/A																																										
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39	42350 - Upland Hemlock	Sawtimber Well	43.7	179		N/A																																										
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41	500 - Water	Nonstocked	7.3				No																																									
42	623 - Emergent Wetland	Nonstocked	3.3				No																																									
44	622 - Lowland Shrub	Nonstocked	9.9				No																																									
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46	42210 - Natural Red Pine	Sawtimber Well	33.1	111	81-110	N/A																																										
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47	622 - Lowland Shrub	Nonstocked	4.4				No																																									



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48	42220 - Natural Jack Pine	Poletimber Well	19.9	80		N/A																																	
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52	42210 - Natural Red Pine	Poletimber Well	9.0	73	111-140	N/A																																	
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53	42350 - Upland Hemlock	Sawtimber Well	34.2	128		N/A																																	
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54	6120 - Lowland Cedar	Poletimber Well	171.6	121	Unspecified	N/A																																	
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55	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	57.7	67		N/A																																	
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56	4199 - Other Mixed Upland Deciduous	Poletimber Well	9.4	67	81-110	N/A																																																
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58	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.2	77	111-140	N/A	Much of the fir is dead and on the ground.																																															
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60	122 - Road/Parking Lot	Nonstocked	5.4			No																																																
61	3301 - Low Density Deciduous Trees	Nonstocked	7.1	0	Unspecified	611 - Lowland Deciduous Forest	Stand was cut as part of the Itty Bitty Sale # 41-026-15-01. TCR Date 1/29/2018. Itty Bitty Sale, Residual BA = Cedar 32', hemlock 14, white pine 4'																																															
62	6120 - Lowland Cedar	Poletimber Well	16.7	118		N/A																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>80</td> <td>Pole</td> <td>6</td> <td>118</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	80	Pole	6	118	Paper Birch	5	Pole	6		Balsam Fir	5	Pole	5		Black Spruce	10	Pole	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	Sapling																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
63	6120 - Lowland Cedar	Sapling Well	103.7	67		N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Log	14		Alder	
Black Spruce		15	Sapling/Pole	4		Balsam Fir	
Northern White Cedar		80	Sapling/Pole	4	67	Density	
						Avg. Height	
						Size	
						Tall Shrub	
						Sapling	
64	6120 - Lowland Cedar	Poletimber Well	27.6	118		N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Pole	5		Balsam Fir	
Paper Birch		5	Pole	6		Density	
Black Spruce		10	Pole	6		Avg. Height	
Northern White Cedar		80	Pole	6	118	Size	
						Sapling	
65	6121 - Tamarack	Poletimber Medium	16.8	67		N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		20	Pole/Sapling	5		Alder	
Northern White Cedar		20	Pole/Sapling	5		Northern White Cedar	
Tamarack		60	Pole/Sapling	5	67	Black Spruce	
						Density	
						Avg. Height	
						Size	
						Tall Shrub	
						Sapling	
						Sapling	
66	6124 - Lowland Spruce-Fir	Poletimber Well	22.7	102		N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		30	Pole	6		Balsam Fir	
Balsam Fir		10	Pole	6		Density	
White Pine		5	Log	14		Avg. Height	
Black Spruce		40	Pole	7	102	Size	
Red Pine		5	Log	14		Sapling	
Paper Birch		10	Pole	6		Sapling	
67	6122 - Black Spruce	Poletimber Well	8.0	92		N/A	Dune and swale
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		85	Pole	6	92	Black Spruce	
Tamarack		5	Pole	5		Density	
White Pine		5	Log	13		Avg. Height	
Red Pine		5	Log	13		Size	
						Sapling	
68	6120 - Lowland Cedar	Sapling Well	18.8	84		N/A	Poor quality cedar.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Sapling	3		Balsam Fir	
Northern White Cedar		90	Sapling/Pole	4	84	Northern White Cedar	
White Pine		5	Log	15		Alder	
						Density	
						Avg. Height	
						Size	
						Sapling	
						Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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69 6120 - Lowland Cedar Poletimber Well 32.0 115 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	80	Pole/Sapling	5	115	Balsam Fir	Low	< 5 feet	Sapling
White Pine	5	Log	13		Alder	Medium	Variable	Tall Shrub
Red Pine	5	Log	13					
Black Spruce	10	Pole/Sapling	5					

70 6124 - Lowland Spruce-Fir Poletimber Well 6.9 102 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	6		Balsam Fir	Medium	< 5 feet	Sapling
Black Spruce	40	Pole	7	102				
Northern White Cedar	30	Pole	6					
Balsam Fir	10	Pole	6					
White Pine	5	Log	14					
Red Pine	5	Log	14					

71 6129 - Mixed Coniferous Lowland Forest Poletimber Well 11.4 99 N/A Dune and swale

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	8		Balsam Fir	Medium	< 5 feet	Sapling
Paper Birch	5	Pole	7					
Black Spruce	40	Pole	5	99				
White Pine	20	Log	14					
Northern White Cedar	30	Pole	5					

72 622 - Lowland Shrub Nonstocked 2.5 No

73 6122 - Black Spruce Poletimber Well 15.6 65 N/A Dune and swale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	80	Pole	5	65	Alder	Medium	Variable	Tall Shrub
Northern White Cedar	5	Pole	6		Balsam Fir	Low	< 5 feet	Sapling
White Pine	5	Log	12					
Red Pine	5	Log	12					
Paper Birch	5	Pole	5					