



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41063

Entry Year 2021

Acreage: 1,716

County Schoolcraft

Management Area: Seney Lake Plain

Stand Examiner: Adam Petrelius

Legal Description:

T43N R14W Sections 25-28 and T43N R13W Section 30

Identified Planning Goals:

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

Soil and topography:

The topography within the compartment is mostly flat with slight elevation differences between the upland ridges and lowland conifer, marsh, and brush stands. Elevation values range between 623 and 676 feet. There is a similar mixture of forested and non forested stands. A large treed bog cover type is located in the east. Numerous soil types are located in this compartment. A few of the most abundant soils are Dawson-Greenwood-Loxley, Rousseau-Neconish-Finch, Neconish-Deford, and Pelkie. Habitat types within the compartment, in order of abundance, are Unclassified Lowland, PVE, and AFPo. It lies within the Seney Manistique Swamp Management Area.

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

State land within this compartment was acquired between 1906 and 1987. The compartment boundary borders private, state, and corporate land. A few camps are located adjacent to the boundaries. The Cookson Bridge, built in 1996, is located within the compartment.

Unique Natural Features:

None known.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

All land northwest of County Road 436 is classified as deer wintering complex.

Watershed and Fisheries Considerations:

The western region of this compartment contains the Manistique River which serves as a tributary to Lake Michigan. The Manistique River is a non-designated river greater than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for the Manistique River to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is located about 4 miles south of the Seney National Wildlife Refuge along River Road. The Manistique River flows along the western boundary. The west end of the compartment is primarily upland habitat while the east end is dominated by lowland spruce and marsh. Stands immediately adjacent to the river are nominated as potential old growth and are a part of a major corridor that follows the Manistique River from the Seney Wildlife Refuge to Manistique. Pine dominates in the area between the potential old growth stands and the lowland conifer. The wildlife goals in this compartment include providing old growth hardwoods and maintaining the river and riparian habitat, maintaining aspen habitat for the early successional species inland, and maintaining the lowland spruce and marsh habitat in the east.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel and dolostone production is occurring less than two miles to the southwest. Sand & gravel potential within the compartment appears to be low. Bedrock is near the surface in the compartment and there is good limestone/dolostone potential, but the numerous wetlands could inhibit any surface development. There is no known metallic mineral potential in this area no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

The western portions of the compartment can be accessed easily from County Road 436 and the Highwater Truck Trail. Treed bogs make up most of the cover types in the east and accessibility is limited to snowmobile.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

A snowmobile trail travels through the compartment in an area known as the Bear Creek Swamp. This compartment receives moderate use by the public with a large portion of the users consisting of neighboring camp owners. Opportunities for hunting, trapping and other forms of outdoor recreation exist.

Fire Protection:

Response time to fires within this compartment will be slow. It is located approximately half way between the Thompson and Seney fire stations. Both spring and summer fires are likely to occur here. Drought conditions during the summer months combined with fuel types in the compartment give this area potential for a large wildfire. One good water source exists at the Cookson Bridge site across the Manistique River.

Additional Compartment Information:

The following reports from the Inventory are attached:

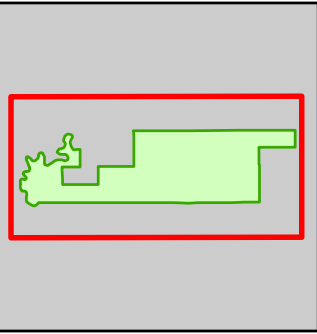
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

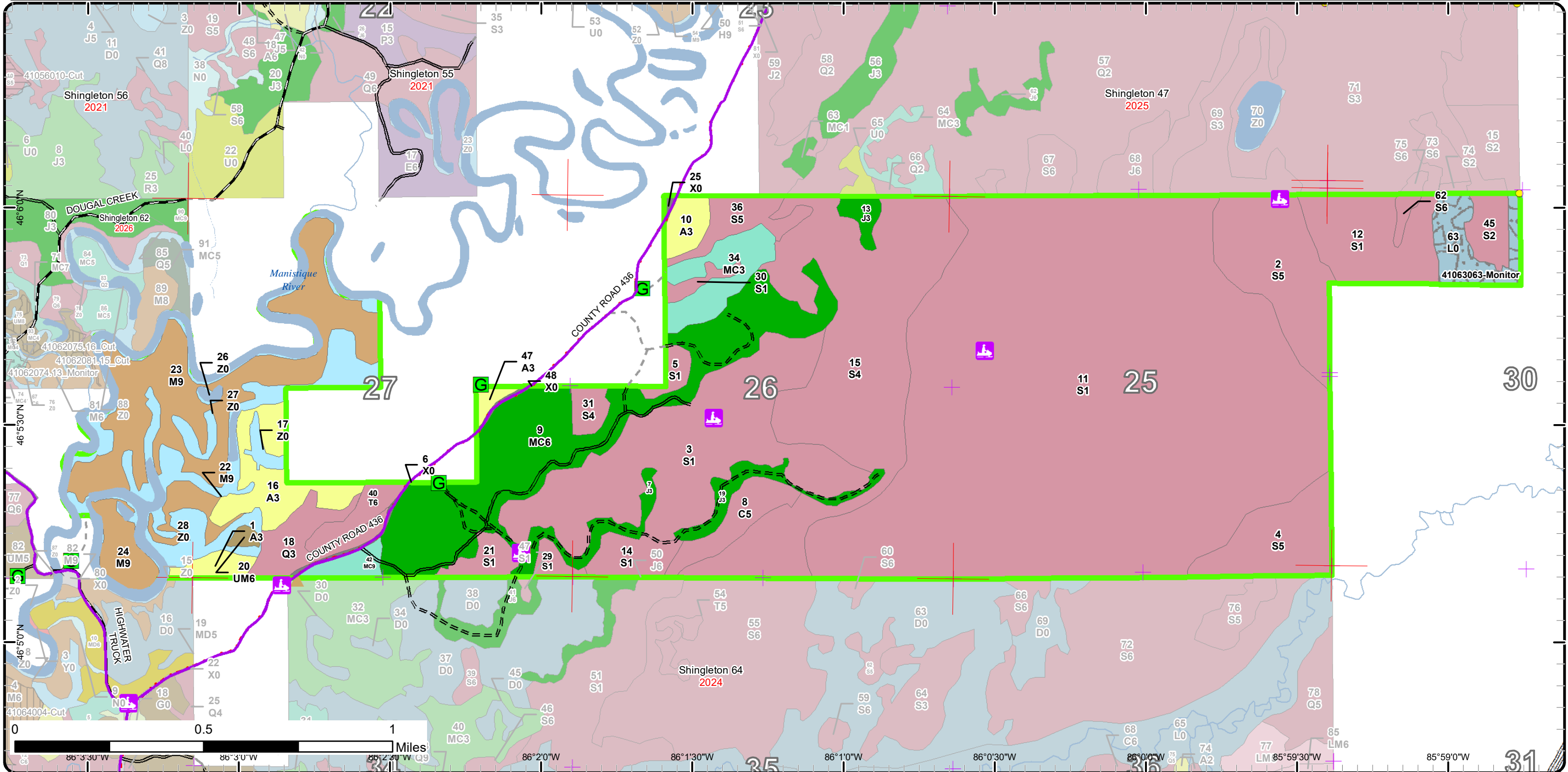
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 63
 T43N, R13W, Sec: 25-28
 T43N, R13W, Sec: 30
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Lake Plain
 YOE: 2021
 Acres: 1715.7 GIS Calculated
 Examiner: Adam Petrelius
 Map Revised: 9/20/2023
 Map Phase: Post Review

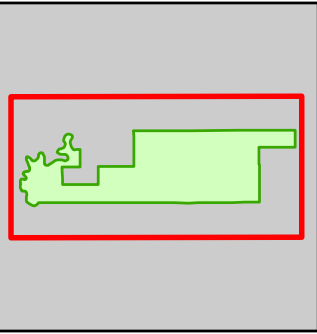


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Berms
- Gate
- Bridges
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub

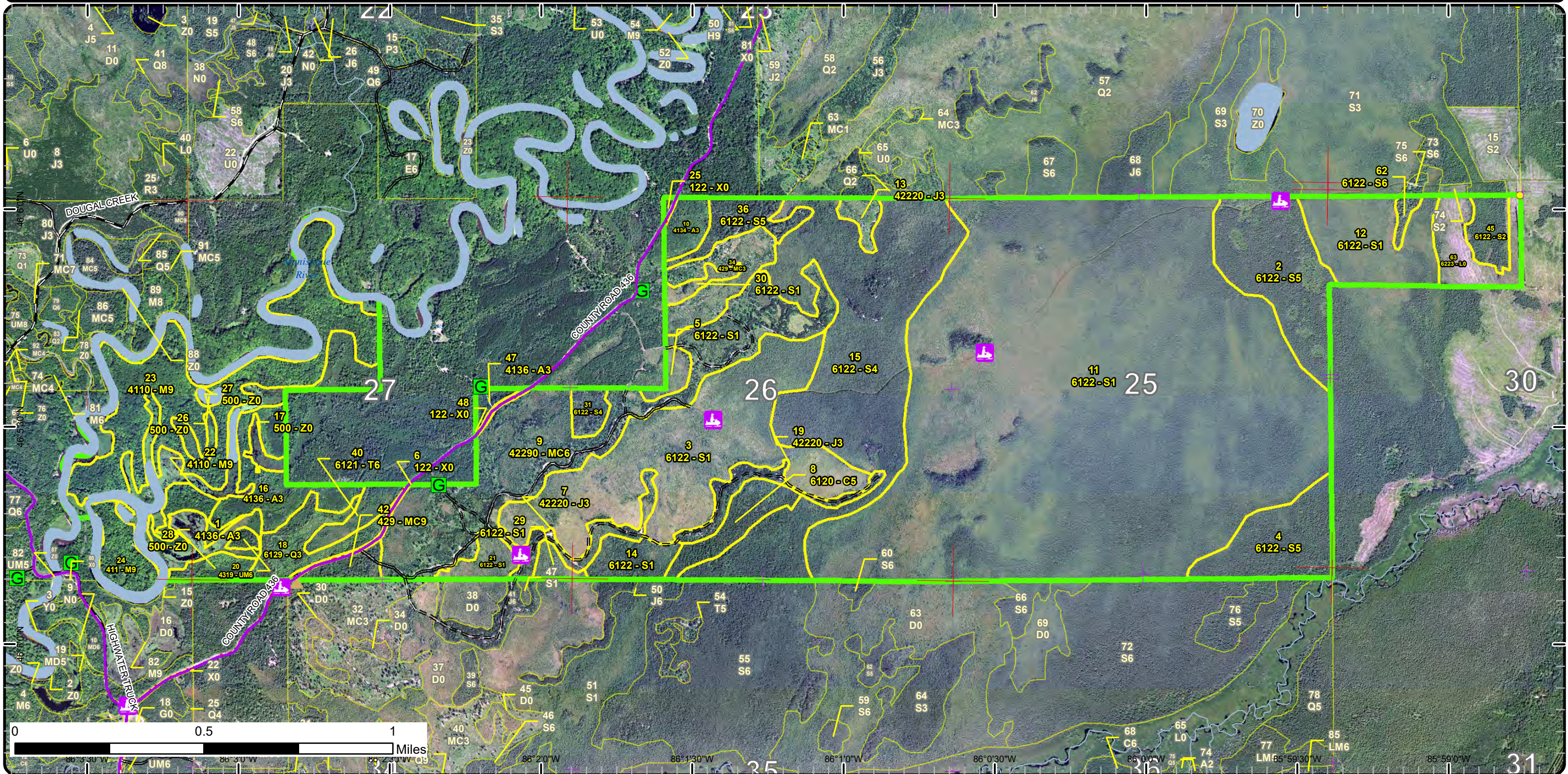


Stand Boundary Map

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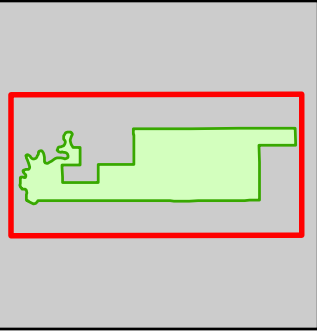


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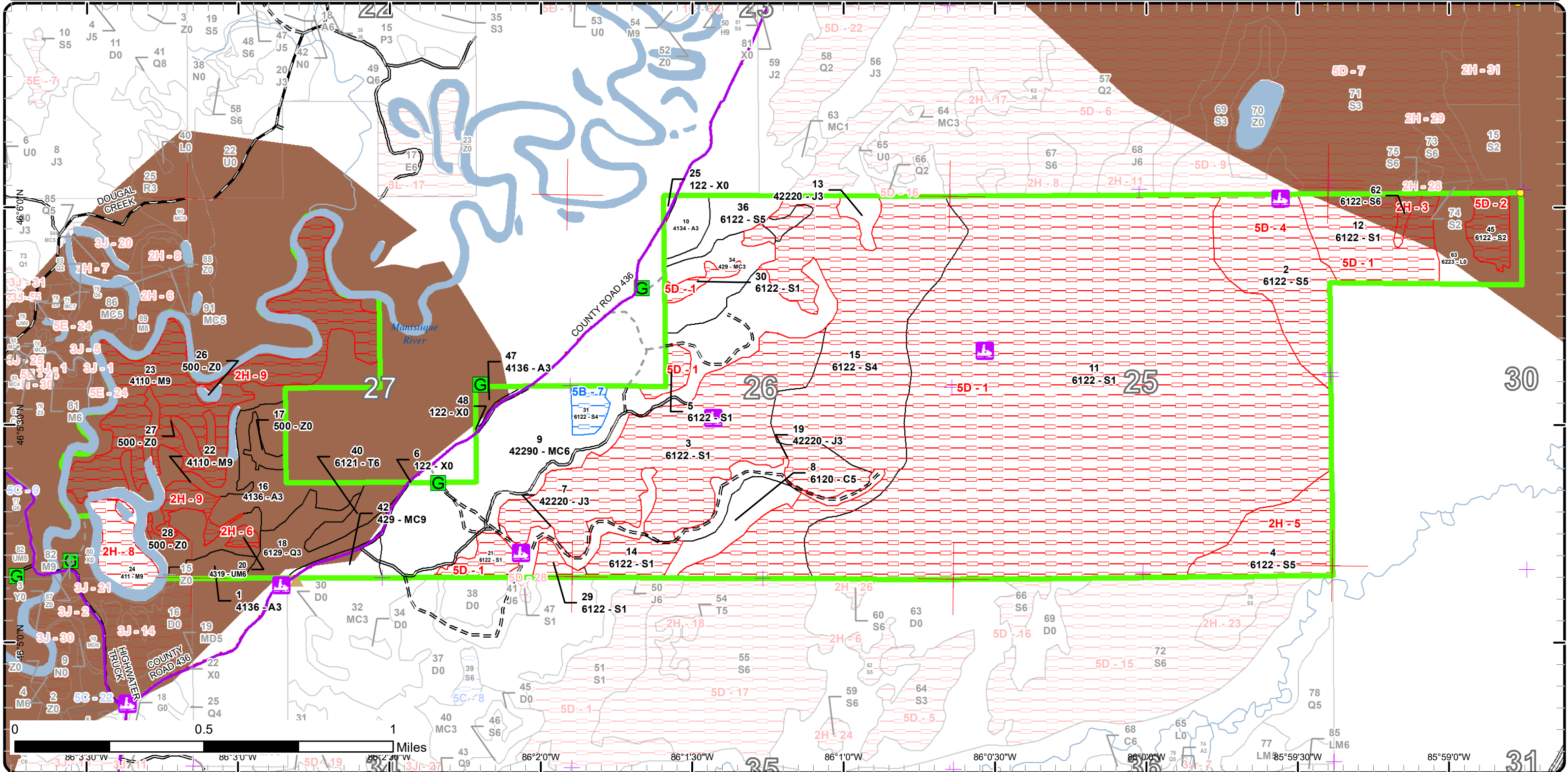


Special Conservation Areas

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- Pipeline
- Compartment Boundary
- Available w/ Constraints
 - 5B: Maintain for regeneration purposes
 - Unavailable
 - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 - 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



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+	Uneven-Aged	Total
Aspen	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Cedar	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
Jack Pine	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Conifers	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Spruce/Fir	0	0	0	0	0	856	0	0	16	301	0	0	0	0	0	0	0	0	1172
Natural Mixed Pines	0	0	0	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	123	0	0	0	0	0	0	0	123
Tamarack	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Upland Conifers	0	0	0	25	0	8	0	0	0	0	0	0	0	0	0	0	0	0	32
Upland Mixed Forest	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Total	120	0	0	262	0	864	10	0	36	301	123	0	0	0	0	0	0	0	1714



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 63
Total Compartment Acres: 1,716

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	0	22	0	0	22
Total	0	0	0	0	0	0	22	0	0	22



S t a n d	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:

63	41063063-Monitor	22.4	6223 - Inundated Shrub Swamp	Nonstocked		Unspecified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> monitor regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand was harvested with Bear Creek Spruce in 2015. Good regeneration is expected and will need regeneration monitoring next entry. Too</p> <p><u>Comment:</u> early now since it is lowland spruce.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2028</p>											

Total Treatment Acreage Proposed: 22.4

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 63
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions		
					5B	2H	5D
52	52	0	0	0			
18	18	0	0	0			
34	34	0	0	0			0
22	22	0	0	0			
22	22	0	0	0			
1173	13	7	1153	1153	7	42	1,111
129	129	0	0	0			
123	0	0	123	123		123	
10	10	0	0	0			
33	30	0	2	2			2
2	0	0	2	2		2	
5	5	0	0	0			
93	93	0	0	0			
1,716	428	7	1,280	1,280	7	167	1,113
	25%	0%	75%	75%			

**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	5D: Unproductive Forest Land	1,041	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 63
Year of Entry: 2021

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: was on contract however was never harvested and turned back. Stand will likely never get harvested due to access and small acreage							
4	Unavailable	5D: Unproductive Forest Land	60	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sparse canopy being replaced by subcanopy							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Island. Only possible access in future if conditions with sloughs change would be in NE across old beaver dam and 20 foot deep slough crossing.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 63
Year of Entry: 2021

9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	107	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
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Comments:

Stand was cut in 1974, Cookson Bridge Sale. Previous access road is now flooded and not possible following construction of new Cookson Bridge. If conditions change in future, harvesting may be possible, however with current hydrological conditions on the connecting sloughs I could not find a way to access stand. If access through private was possible, both directions have sloughs and drainage to deal with. The combination of difficult access, and water quality/BMP issues caused this stand to be factored.

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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
1	4136 - Aspen, Mixed Conifer	Sapling Well	7.7	20	1-50	N/A	Stand was cut January 2003, River Road Contract.																																		
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9	42290 - Natural Mixed Pine	Poletimber Well	129.3	28	1-50	N/A	Stand is a combination of multiple sales during a 20 year time period. Excellent regeneration of mixed pine and lowland conifers																																																				
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10	4134 - Aspen, Spruce/Fir	Sapling Well	9.9	21	1-50	N/A	Stand was cut Summer 2002, River Road Contract.																																																				
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15	6122 - Black Spruce	Poletimber Poor	177.3	83	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		85	Pole/Sapling	5	83	Black Spruce	
Jack Pine		5	Pole/Log	9		Tamarack	
Tamarack		10	Pole/Sapling	5		Density	
						Avg. Height	
						Size	
16	4136 - Aspen, Mixed Conifer	Sapling Well	30.5	20	1-50	N/A	Stand was cut January 2003, River Road Contract.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Sapling	3		Tag Alder	
Tamarack		10	Sapling	3		Balsam Fir	
Red Maple		10	Sapling	3		Density	
Quaking Aspen		70	Sapling	3	20	Avg. Height	
						Size	
17	500 - Water	Nonstocked	3.9		Unspecified	No	
18	6129 - Mixed Coniferous Lowland Forest	Sapling Well	22.1	20	1-50	N/A	Stand was cut January 2003, River Road Contract, Sale is now closed.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		20	Sapling	2		Tag Alder	
White Pine		15	Sapling	2		Balsam Fir	
Quaking Aspen		15	Sapling	2		Black Spruce	
Northern White Cedar		20	Pole	8	85	Density	
Tamarack		30	Sapling	2	20	Avg. Height	
						Size	
19	42220 - Natural Jack Pine	Sapling Well	13.2	28	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		5	Sapling/Pole/Log	4		Black Spruce	
Black Spruce		10	Sapling/Pole	4		Density	
Jack Pine		70	Sapling/Pole	4	28	Avg. Height	
Tamarack		10	Sapling/Pole	4		Size	
Quaking Aspen		5	Sapling/Pole	4			
20	4319 - Mixed Upland Forest	Poletimber Well	2.3	78	51-80	N/A	Island surrounded by sloughs
21	6122 - Black Spruce	Sapling Poor	9.6	45	1-50	N/A	unproductive
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		10	Sapling	3		Black Spruce	
Jack Pine		10	Sapling	3		Density	
Black Spruce		80	Sapling	3	45	Avg. Height	
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22	4110 - Sugar Maple Association	Sawtimber Well	9.5	90	111-140	N/A	Cut in 1974, Cookson Bridge Sale. Access was from the Cookson Bridge area, however this road is now under water following construction of new bridge.																																											
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24	411 - Northern Hardwood	Sawtimber Well	16.4	90	111-140	N/A	Island surrounded by slough. Access is not possible under current conditions. Best possibility would be from NW across old beaver dam and a 20 foot deep slough crossing. Conducted inventory when water was not frozen, so I could not cross and remote call was used.																																											
25	122 - Road/Parking Lot	Nonstocked	1.0		Unspecified	No	OPIC - FMD: County Road 436																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	6122 - Black Spruce	Sapling Poor	4.8	45	1-50	N/A	unproductive
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		80	Sapling	3	45	Black Spruce	
Jack Pine		10	Sapling	3		Medium	
Tamarack		10	Sapling	3		5 - 10 feet	
						Sapling	
31	6122 - Black Spruce	Poletimber Poor	7.3	83	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		30	Log/Pole	14		Black Spruce	
Black Spruce		70	Pole	7	83	Red Pine	
						Low	
						5 - 10 feet	
						Sapling	
						White Pine	
						Medium	
						5 - 10 feet	
						Sapling	
34	429 - Mixed Upland Conifers	Sapling Well	24.5	21	1-50	N/A	OPIC - FMD: MARK ONLY A FEW RED PINE SEED TREES.[11-10-03 bb] Stand was cut Summer 2002, River Road Contract, Sale is now closed. Site was scarified September 2003[1/28/04 BB] Received a completion from Don indicating 8 acres were scarified, leaving 21 acres unscarified for this stand, Don says this was due to low areas. Schedule regen check in 2006.(5/31/06 AP) 2006 regen counts - 27 jack pine, 82 red pine, 27 white pine, 795 black spruce, 192 aspen, total of 1151 trees per acre. Stand had an FTP for jack pine regeneration C41-1035. After looking at the cruise volume for this stand jack pine only represented 20% of the total volume. The majority of the volume was spruce and the majority of the stand is low ground. Stand is fully stocked with spruce. Close FTP 1035.(9/14/06 AP) Management objective changed to spruce with letter. FTP C41-1035 closed.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		30	Sapling	8		Balsam Fir	
Black Spruce		30	Sapling	2	21	Black Spruce	
Quaking Aspen		20	Sapling	3		Medium	
Red Pine		10	Log/XLog/Pole	14		< 5 feet	
White Pine		10	Sapling	2		Sapling	
						< 5 feet	
						Sapling	
36	6122 - Black Spruce	Poletimber Medium	16.3	71	51-80	N/A	overstory is sparse and being replaced by subcanopy.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		10	Pole/Sapling	8		Balsam Fir	
White Pine		10	XLog/Log	18		Black Spruce	
Jack Pine		5	Pole	8		Medium	
Northern White Cedar		10	Pole	8		5 - 10 feet	
Black Spruce		65	Pole/Sap/Log	8	71	>20 feet	
						Sapling	
40	6121 - Tamarack	Poletimber Well	10.1	59	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Tamarack		50	Pole/Sapling	6	59		
Northern White Cedar		10	Pole	7			
White Pine		15	Log/Pole	14			
Black Spruce		25	Pole/Sapling	6			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
42	429 - Mixed Upland Conifers	Sawtimber Well	8.1	41	51-80	N/A	Stand was cut as a seed tree cut in 1982. All trees were cut except red pine and white pine, which had seed trees left. Mostly came back to aspen. Hold till aspen is mature and harvest again.																																											
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45	6122 - Black Spruce	Sapling Medium	12.3	45	1-50	N/A	Stand was not scheduled when adjacent timber was harvested. This area has lower site index and is considered unproductive / non merch.																																											
47	4136 - Aspen, Mixed Conifer	Sapling Well	3.7	28	1-50	N/A																																												
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48	122 - Road/Parking Lot	Nonstocked	1.3		Unspecified	No																																												
62	6122 - Black Spruce	Poletimber Well	3.2	89	51-80	N/A	.8/5/14 BB Stand was prepared and put on proposal, Bear Creek Spruce because of a new access through private land to the south. Stand was scheduled out of entry at the 2015 review. Factors deleted. Stand was turned back into the state and never harvested. Factors will be added since access will likely never occur now.																																											
63	6223 - Inundated Shrub Swamp	Nonstocked	22.4		Unspecified	No	Stand was harvested with Bear Creek Spruce in 2015. Will need regeneration monitoring next entry. Too early now since it is lowland spruce.																																											