



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41024

Entry Year 2019

Acreage: 2,658

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 2017-07-17

Stand Examiner: Thomas Burnis

Legal Description:

T44N R16W Sections 1,2,3,10,11 and T44N R15W Section 6

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 in this compartment is mostly flat to slightly rolling. Lower elevations follow seasonal drainages and creeks which flow northwest to southeast. Between these drainages is some higher ground which supports merchantable timber. About 1/2 of the acreage in the compartment is dominated by upland and lowland hardwoods. The remaining half is a mixture of predominately marsh, aspen, and jack pine. The major soil types found within the compartment, in order of abundance, are 556B, Markey Mucky Peat, and Deford-Meehan-Seney Complex. Major habitat types within the compartment, in order of abundance, are PArVAa, unclassified wetland, and PVE. Most of the compartment lies within the West Branch Manistique Land Type Association. Other Land Type Associations found are Hickey Creek Peatlands and Shingleton Fen.

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

: State land within this compartment was acquired between 1939 and 1991. The majority of the compartment boundary is bordered by state land with the exception of a few private parcels. The eastern compartment boundary borders the Seney National Wildlife Refuge.

Unique Natural Features:

None known.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

The western 1/3 of the compartment is designated as a special conservation area. This area is mostly a marsh/pine ridge complex.

Watershed and Fisheries Considerations:

The West Branch of the Manistique River and the Creighton River are found within this compartment and are classified as warm-water. Standard BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations. Hickey Creek and West Branch Hickey Creek are cold-water streams with populations of brook trout. Preventing inputs of sediment which smother spawning gravels and juvenile rearing habitat is of high importance.

Wildlife Habitat Considerations:

This compartment, bounded on the east by South Creighton Trail, lies south of M-28. Dominant features consist of long narrow ridges running northwest to southeast separated by lowland drainages. Pre-settlement data shows the upland portions of this compartment were dominated by a mix of white pine, red maple, balsam fir, and birch (both white and yellow). Hemlock occurred primarily in the transition areas. Lowland forests were dominated by spruce, but also contained black ash, cedar, tamarack, and elm. Although there has been an increase in aspen, red pine, and red maple, the uplands of this compartment continue to contain nearly the same species mix as found during pre-settlement times. Lowlands are also similar to circa 1850 conditions. The wildlife habitat management regime for this compartment consists of increasing the coniferous component of the upland forest, maintaining size class and species diversity within the hardwoods, and protecting the integrity of the streams within the compartment.

Mineral Resource and Development Concerns and/or Restrictions

: Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Group subcrops below the glacial drift. The Trenton is quarried for stone in the UP. Gravel pits are not located in the area and potential appears to be limited. There is no known metallic mineral potential in this region. There is no commercial oil and gas production in the UP. The state currently does not own the mineral rights beneath portions of the compartment.

Vehicle Access:

Only about 1/3 of the compartment is accessible by vehicle traffic to the general public. The remaining 2/3 is only accessible to the private landowners which have restricted access and DNR staff. A management easement was recently obtained which allows management access to the western 2/3 of the compartment. Three main access roads lead into the compartment. These roads parallel rivers and creeks which flow northwest to southeast. The eastern boundary of the compartment is County Road 448. Only a small portion of the compartment in the far east is accessible from this road since the West Branch of the Manistique River is only ¼ to the west. The Hickey Creek road travels into the majority of the eastern portions of the compartment. Another forest road leads to the central and western areas of the compartment. This road is gated and access is restricted to private landowners and DNR staff.

Survey Needs:

Survey work is not needed within the compartment.

Recreational Facilities and Opportunities:

There are no recreational facilities located within the compartment. Opportunities for hunting, fishing, and other forms of recreational activity exist within the compartment.

Fire Protection:

Response time to fires within this compartment will be slow. The compartment is located approximately half way between the Shingleton, Seney, and Thompson offices. Access will be difficult in the western portions of the compartment. It is mostly low ground with various drainages to cross. Lightning fires can be a problem in the western areas of the compartment. Sandy soils in the eastern portion of the compartment support mixed pine forest types which can be fire threats throughout the fire season. The compartment has numerous sources of water from the various creeks which flow through it. Lowland drainages may support the use of well points.

Additional Compartment Information:

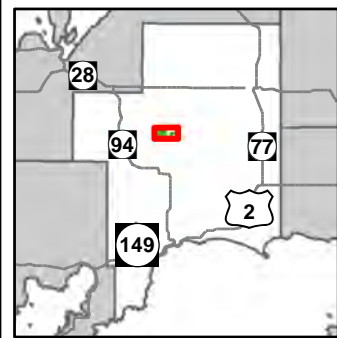
The following reports from the Inventory are attached:

- 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:

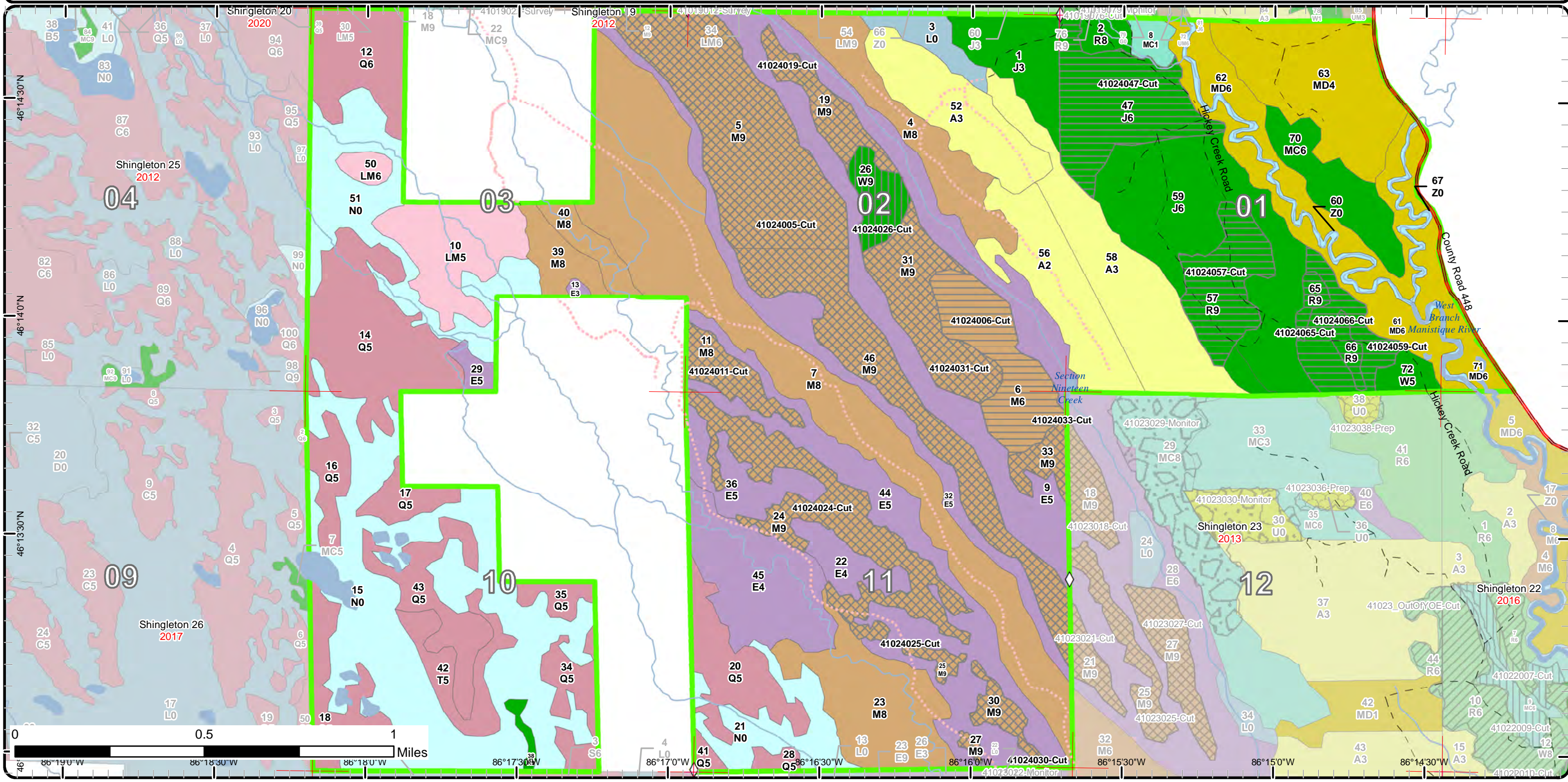
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



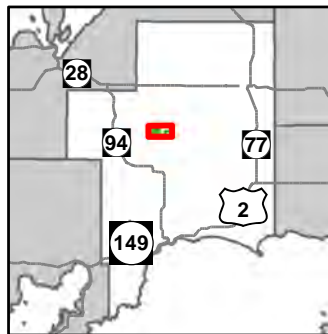
Compartment: 24
 T44N, R16W, Sec: 1-3, 10,
 11/nT44N, R15W, Sec: 6
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique
 Swamp
 YOE: 2019
 Acres: 2658.1 GIS Calculated
 Examiner: Thomas Burnis
 Map Revised: 8/23/2017
 Map Phase: Review

- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- County Gravel Roads
- - Poor Dirt Roads
- ... Closed
- Streams
- Lakes and Rivers All
- ▭ Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▩ Clearcut (w/Reserves)
- ▧ Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

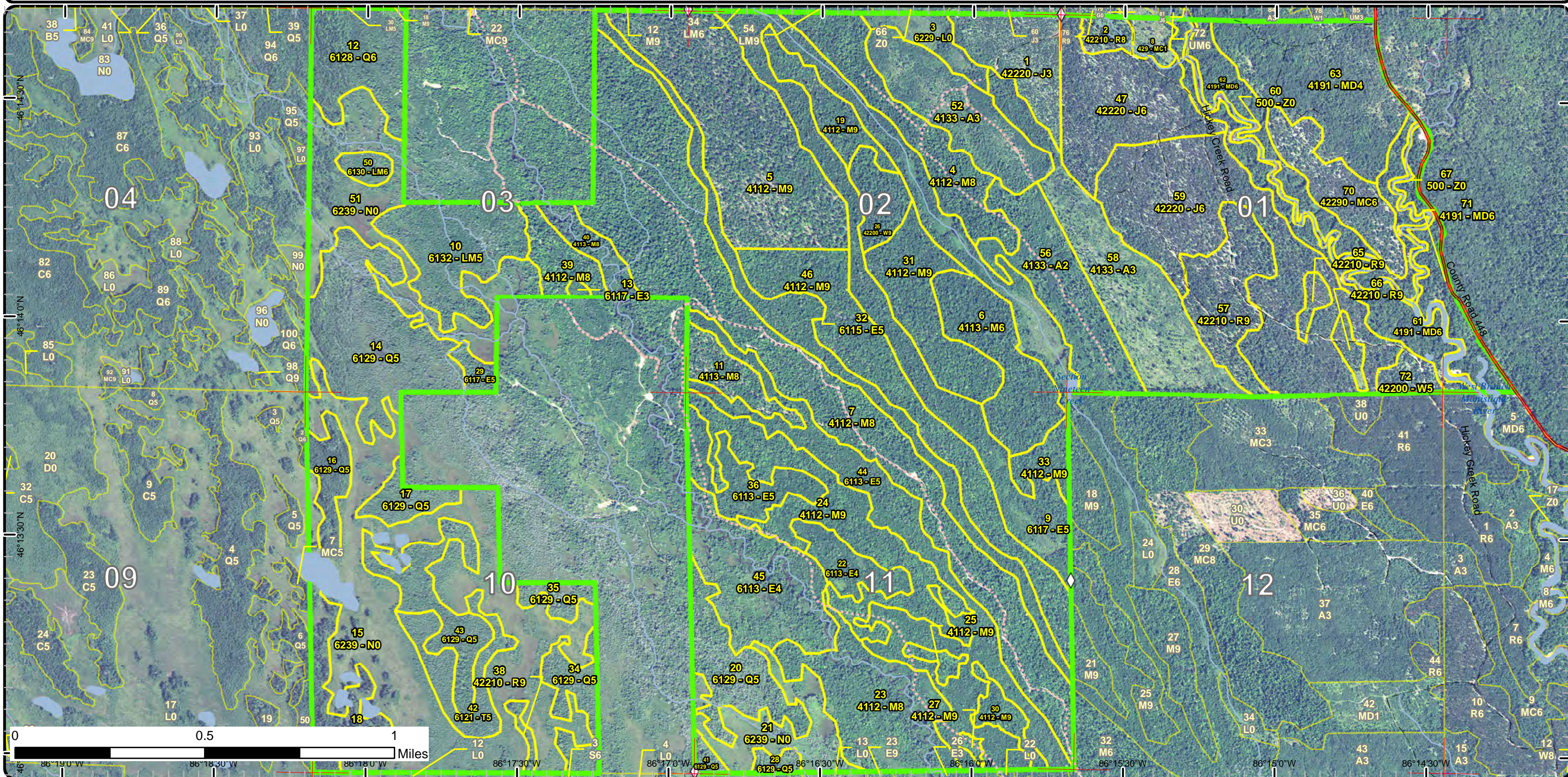


Stand Boundary Map

Compartment: 24
 T44N, R16W, Sec: 1-3, 10,
 11/nT44N, R15W, Sec: 6
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique
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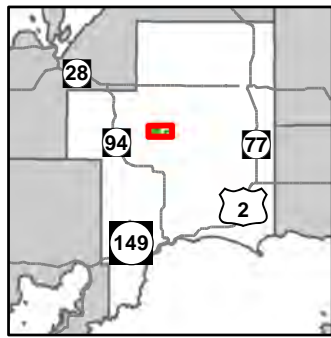


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
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- Stand Boundaries
- 411 - Northern Hardwood
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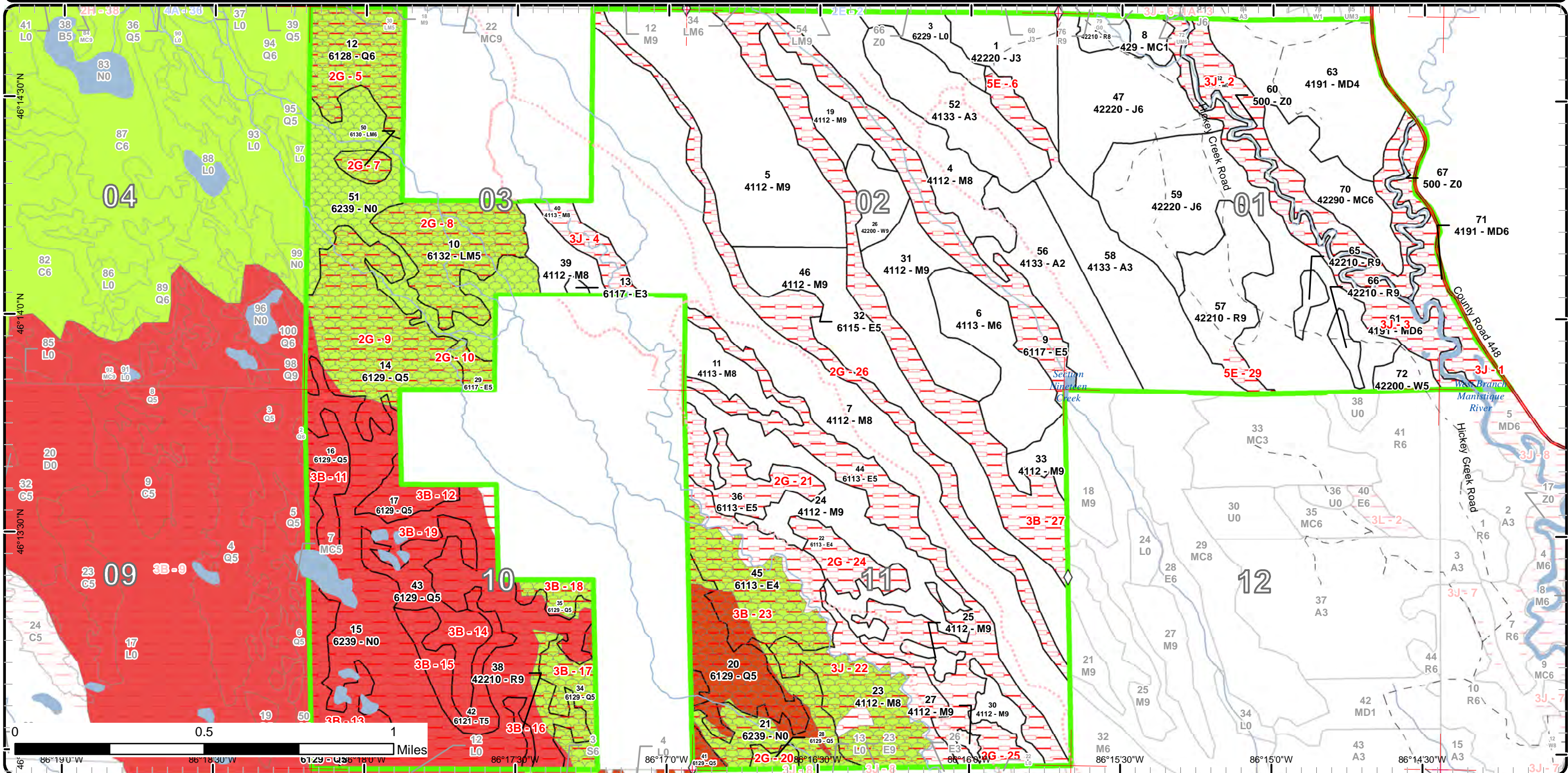


Special Conservation Areas & Site Conditions Map

Compartment: 24
 T44N, R16W, Sec: 1-3, 10,
 11/nT44N, R15W, Sec: 6
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique
 Swamp
 YOE: 2019
 Acres: 2658.1 GIS Calculated
 Examiner: Thomas Burnis
 Map Revised: 8/23/2017
 Map Phase: Review



- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- County Gravel Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- SCA Removal
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Possible Type 2 Old Growth





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	81	57	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190
Jack Pine	0	0	0	35	0	135	0	0	63	0	0	0	0	0	0	0	0	0	232
Lowland Conifers	0	0	0	0	0	0	0	0	43	248	0	0	0	0	0	0	0	0	291
Lowland Deciduous	0	0	0	0	1	0	0	0	340	64	0	0	0	0	0	0	0	0	404
Lowland Mixed Forest	0	0	0	0	0	0	0	0	57	0	0	0	0	0	0	0	0	0	57
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Marsh	316	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	316
Mixed Upland Deciduous	0	0	0	0	82	0	0	0	0	0	109	0	0	0	0	0	0	0	191
Natural Mixed Pines	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	383	0	0	0	0	0	396	779
Red Pine	0	0	0	0	0	0	0	11	51	3	0	0	0	0	0	0	0	0	65
Tamarack	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24
Upland Conifers	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
White Pine	0	0	0	0	0	9	0	0	0	0	0	17	0	0	0	0	0	0	26
Total	354	81	65	87	117	144	0	11	554	339	109	400	0	0	0	0	0	396	2655



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 24
Total Compartment Acres: 2,658

Commercial Harvest - 586
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	91	0	0	0	0	0	0	0	0	91
Northern Hardwood	47	381	0	0	0	0	0	0	0	428
Red Pine	49	0	0	0	0	0	0	0	0	49
White Pine	0	0	0	0	17	0	0	0	0	17
Total	188	381	0	0	17	0	0	0	0	586

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	586	0	0	0	0	0	0	0	0	586
Next Step	0	141	77	0	77	77	586	0	0	959
Total	586	141	77	0	77	77	586	0	0	1545



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	Approval Status
5	41024005-Cut	196.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Stand already on contract 017-09, Lock The Gate.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Mix of current species mix acceptable regeneration.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
6	41024006-Cut	47.3	4113 - R.Maple, Conifer	Poletimber Well	105	111- 140	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Already on contract 017-09 Lock The Gate											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Mix of existing species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
11	41024011-Cut	18.5	4113 - R.Maple, Conifer	Sawtimber Medium	86	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Already under contract 017-09 Lock The Gate											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> mix of existing species											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
19	41024019-Cut	21.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Already under contract 017-09 Lock The Gate.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> mix of existing species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



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	Approval Status
24	41024024-Cut	70.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Already on contract 017-09 Lock The Gate.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable mix of existing speciesRegen:OtherComment:Proposed Start Date: 10/01/2018

25	41024025-Cut	4.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Already on contract 017-09 Lock The Gate.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable mix of existing spp.Regen:OtherComment:Proposed Start Date: 10/01/2018

26	41024026-Cut	17.4	42200 - Natural White Pine	Sawtimber Well	109	111- 140	Harvest	Shelterwood	4220 - Natural White Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Already on contract 017-09 Lock The Gate.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable mix of existing species.Regen:OtherComment:Proposed Start Date: 10/01/2018

27	41024027-Cut	1.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Already on contract 017-09 Lock The GateSpecs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable mix of existing species.Regen:OtherComment:Proposed Start Date: 10/01/2018



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	Approval Status
30	41024030-Cut	10.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Already under contract 017-09 Lock the GateSpecs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable mix of existing speciesRegen:OtherComment:Proposed Start Date: 10/01/2018

31	41024031-Cut	45.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Stand currently under contract 017-09 Lock The Gate.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Mix of current speciesRegen:OtherComment:Proposed Start Date: 10/01/2018

33	41024033-Cut	11.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Stand currently under contract 017-09 Lock The Gate.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Mix of current species.Regen:OtherComment:Proposed Start Date: 10/01/2018

47	41024047-Cut	63.2	42220 - Natural Jack Pine	Poletimber Well	75	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Cut all trees down to 2 inches. Leave retention where appropriate.Specs:Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)Treatments:Acceptable Mix of conifer speciesRegen:OtherComment:Proposed Start Date: 10/01/2018



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	Approval Status
57	41024057-Cut	38.5	42210 - Natural Red Pine	Sawtimber Well	72	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees down to 2". Do not block drainage or deep gully that may be found within stand. Exclude southern portion of stand as retention.											
<u>Specs:</u> place 25 foot buffer on each side of ditch.											
<u>Next Step</u> Burn, Slash; Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Red Pine.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
59	41024059-Cut	28.2	42220 - Natural Jack Pine	Poetimber Well	46	Unspec ified	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees down to 2 inches. place a 25 foot buffer on each side of ditch.											
<u>Specs:</u>											
<u>Next Step</u> Burn, Slash; Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 08/04/2017											
65	41024065-Cut	5.1	42210 - Natural Red Pine	Sawtimber Well	69	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees down to 2" except hemlock if present. Do not plug any drainage ditches or gullies. No retention other than Hemlock and ditch buffer.											
<u>Specs:</u>											
<u>Next Step</u> Burn, Slash; Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
66	41024066-Cut	5.6	42210 - Natural Red Pine	Sawtimber Well	69	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees down to 2". Do not plug drainage ditches or gullies. Retention within 25 foot buffer on each side of ditch.											
<u>Specs:</u>											
<u>Next Step</u> Burn, Slash; Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Red Pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
Total Treatment Acreage Proposed:		585.9									

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 24
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition		Acres Not Available	Dominant Site Conditions				
					2G	3B	3J	5E	
189	179	0	0	10	Aspen				10
233	233	0	0	0	Jack Pine				
291	0	0	0	291	Lowland Conifers	127	164		
405	1	0	0	403	Lowland Deciduous	207	196		
58	0	0	0	58	Lowland Mixed Forest	58			
15	15	0	0	0	Lowland Shrub				
316	75	0	0	241	Marsh		241		
191	82	0	0	109	Mixed Upland Deciduous			109	
34	34	0	0	0	Natural Mixed Pines				
780	700	0	0	79	Northern Hardwood			79	
65	57	0	0	8	Red Pine		3		5
24	0	0	0	24	Tamarack		24		
8	8	0	0	0	Upland Conifers				
23	23	0	0	0	Water				
26	26	0	0	0	White Pine				
2,658	1,434			1,224	Total Forested Acres	392	629	188	15
	54%			46%	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	3J: Water quality / BMPs (stream, river, or lake)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Thomas Burnis : Examiner

Compartment: 24
 Year of Entry: 2019

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	51	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 24
Year of Entry: 2019

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	80	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3B: Threatened, endangered, and special concern species	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA designation for pattern fen							
12	Unavailable	3B: Threatened, endangered, and special concern species	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA designation for pattern fen							
13	Unavailable	3B: Threatened, endangered, and special concern species	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA designation for pattern fen							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 24
Year of Entry: 2019

14	Unavailable	3B: Threatened, endangered, and special concern species	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA designation for pattern fen							
15	Unavailable	3B: Threatened, endangered, and special concern species	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA designation for pattern fen							
16	Unavailable	3B: Threatened, endangered, and special concern species	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA designation for pattern fen							
17	Unavailable	3B: Threatened, endangered, and special concern species	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3B: Threatened, endangered, and special concern species	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA designation for pattern fen							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 24
Year of Entry: 2019

19	Unavailable	3B: Threatened, endangered, and special concern species	205	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA designation for pattern fen							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3B: Threatened, endangered, and special concern species	141	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Thomas Burnis : Examiner

Compartment: 24
 Year of Entry: 2019

25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	102	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	3B: Threatened, endangered, and special concern species	132	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	28
Comments does not qualify as old growth				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	9
Comments does not qualify as old growth				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	115
Comments does not qualify as old growth				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	253
Comments does not qualify as old growth				
Cedar Island	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	164
Comments does not qualify as old growth				



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.
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	General Comments:
1	42220 - Natural Jack Pine	Sapling Well	35.4	21	Immature	OPIC - FMD: [1/7/04 BB] Stand is covered under FTP-673, stand was never scarified but it was counted in 2002, 912 tpa were surveyed. FTP was closed with a blanket letter.
2	42210 - Natural Red Pine	Sawtimber Medium	7.8	76	51-80	OPIC - FMD: [6/26/06 BB] 2 Buck Pine Sale is now closed, actual stand acres was 5 acres. Stand 66 from 1999 inventory was included within this stand. It was formerly an A0 stand with a regen walkthrough scheduled for 2010. This regen check is not needed since it was re-delineated and included with this stand.
4	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	50.2	97	1-50	OPIC - FMD: (9/14/06 AP) Stand was cut winters 99/00/01. FTP C41-918 cancelled with letter. Too late to plant oak/WP. Stand was harvested heavily last year of entry. Regeneration is mostly red maple stump sprouts. White birch and a good mixture of conifer regeneration is present also. There is a lot of beech saplings present that were onsite prior to harvest. Stand has a lot of hazlenut.
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	116.0	105	51-80	OPIC - FMD: Stand is mostly red maple and beech. Trees are poor quality. Stand should be marked to 70 sq. ft. basal area. Acceptable alternative management objectives include any species mixture found onsite. Access: A management easement from Mike Lund was recently obtained to access this stand. Easement restrictions include no harvesting operations from November 15 to November 30. Retention: Marking should include the retention of some trees that exhibit high wildlife values. Do not cut hemlock, oak, and cedar. Some white pine may be cut since there is a decent amount present. Two wet areas (M9) are present approximately 6 acres and 1 acre in size. These should be saved as retention patches. WLD would like to underplant hemlock following harvest. Adjacent compartment: Stand 11, compartment 23 should be included and have the same prescription as this stand. [9/18/09 BB] Stand is now on proposal 17-09-01, Lock the Gate, Residual Basal Area = white pine = 3 sq ft, yellow birch = 6 sq ft, beech = 4 sq ft, hard maple = 4 sq ft, red maple= 33 sq ft, white spruce = 3 sq ft, white birch = 4 sq ft, cedar = 6 sq ft, elm = 1 sq ft, black ash = 1 sq ft, fir = 1 sq ft, cherry = 1 sq ft. Total 67 sq ft [3/06/2017] Stand was units 1 and 2 of "Lock the Gate" sale. These units have been cut but are still under contract with the rest of the sale which has been turned back to state.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6	4113 - R.Maple, Conifer	Poletimber Well	47.3	105	111-140	<p>Access: A management easement from Mike Lund was recently obtained to access this stand. Easement restrictions include no harvesting operations from November 15 to November 30.</p> <p>Retention: Marking should include the retention of some trees that exhibit high wildlife values. Do not cut hemlock, oak, and cedar. Some white pine may be cut since there is a decent amount present. Two wet areas (M9) are present approximately 6 acres and 1 acre in size. These should be saved as retention patches.</p> <p>[9/18/09 BB] Stand is now on proposal 17-09-01, Lock the Gate, Residual Basal Area = white pine = 9 sq ft, beech = 1 sq ft, red maple = 11 sq ft, white spruce = 1 sq ft, cherry = 1 sq ft. Total 23 sq ft</p>
7	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	204.7	105	1-50	<p>OPIC - FMD: [12-10-03 BB] Stand was part of 37-99, cut in the winters of 00-02, there were some large openings made for delimeter, may want to look at regen in 2009, also there seemed to be a lot of blowdowns when the sale was closed. The road that was constructed through the sale was left open, this is intended to be the long term access to the north.</p> <p>Harvest last year of entry seemed to be more of a Shelterwood harvest than a selection harvest. Regeneration is very thick, diverse, and 10 to 15 feet tall. Most of the maple regeneration is stump sprouts. Some blown over trees were noticed, but not a lot. Stocking of residual trees is too low for another thinning in future years. Once canopy starts to close, some type of overstory removal may be needed. CLOSE FTP C41-932</p>
8	429 - Mixed Upland Conifers	Sapling Poor	7.8	12	Immature	<p>OPIC - FMD: [2 Buck Pine 025-01] Residual Basal Area = 31-10'</p> <p>[6/26/06 BB] Sale is now closed, actual stand acres was 7 acres. Stand cut summer 2005 but TCR date is 6/1/06 schedule regen check for 2010.</p> <p>(9/18/07 AP) Stand scarified 7/7/07 by Holli Forest Products. On regen timeclock for 2009.</p> <p>(6/10/11 AP) 2011 regen count results 171 jack pine, 257 red pine, 43 white pine. Stand will be added to planting list to fill areas lacking regeneration.</p> <p>(10/28/2015 AP) Removed from planting list, fully regenerated. FTP is now closed.</p>
9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	132.4	77	51-80	
10	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	51.4	77	1-50	<p>OPIC - FMD: SCA-Corridor. Previously designated as potential old growth.</p> <p>Does not meet criteria for POG</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
11	4113 - R.Maple, Conifer	Sawtimber Medium	18.5	86	51-80	<p>Access: A management easement from Mike Lund was recently obtained to access this stand. Easement restrictions include no harvesting operations from November 15 to November 30.</p> <p>Retention: Marking should include the retention of some trees that exhibit high wildlife values. Do not oak, hemlock, and cedar. Do not cut any other conifers unless needed for operability.</p> <p>[9/18/09 BB] Stand is now on proposal 17-09-01, Lock the Gate, Residual Basal Area = white pine = 2 sq ft, yellow birch = 5 sq ft, hard maple = 23 sq ft, red maple= 13 sq ft, white spruce = 3 sq ft, white birch = 5 sq ft, elm = 2 sq ft, fir= 3 sq ft Total 56 sq ft,</p> <p>3/06/2017: Stand has been cut but is still on contract. All stand and canopy info represents the current stand.</p>
12	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	42.8	77	81-110	<p>OPIC - FMD: SCA-Corridor. Previously designated as potential old growth.</p> <p>Does not meet criteria for POG.</p>
13	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	1.4	38	Unspecified	OPIC - FMD: OI Stand Year Origin was 1979
14	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	79.8	81	1-50	<p>OPIC - FMD: SCA-Corridor. Previously designated as potential old growth.</p> <p>Does not meet criteria for POG</p>
16	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	16.8	81	1-50	<p>OPIC - FMD: SCA-Corridor. Previously designated as potential old growth.</p> <p>Does not meet criteria for POG</p>
17	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	13.1	81	1-50	<p>OPIC - FMD: SCA-Corridor. Previously designated as potential old growth.</p> <p>Does not meet criteria for POG</p>
18	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	29.6	81	51-80	<p>OPIC - FMD: SCA-Corridor. Previously designated as potential old growth.</p> <p>Does not meet criteria for POG.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.0	105	111-140	<p>OPIC - FMD: Stand is mostly red maple and beech. Trees are poor quality. Stand should be marked to 70 sq. ft. basal area. Acceptable alternative management objectives include any species mixture found onsite.</p> <p>Access: A management easement from Mike Lund was recently obtained to access this stand. Easement restrictions include no harvesting operations from November 15 to November 30.</p> <p>Retention: Marking should include the retention of some trees that exhibit high wildlife values. Do not cut hemlock, oak, and cedar. Some white pine may be cut since there is a decent amount present. Two wet areas (M9) are present approximately 6 acres and 1 acre in size. These should be saved as retention patches.</p> <p>WLD would like to underplant hemlock following harvest.</p> <p>[9/18/09 BB] Stand is now on proposal 17-09-01, Lock the Gate, Residual Basal Area = white pine = 3 sq ft, yellow birch = 6 sq ft, red maple = 33 sq ft, white spruce = 4 sq ft, white birch = 2 sq ft, cedar = 22 sq ft, cherry = 4 sq ft. Total 74 sq ft</p>
20	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	36.8	81	81-110	<p>OPIC - FMD: SCA- Corridor. Previously designated as old growth.</p> <p>Does not meet criteria for POG</p>
22	6113 - Lowland Maple	Poletimber Poor	18.5	71	1-50	
23	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	65.0	85	81-110	
24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	70.9	105	111-140	<p>OPIC - FMD: Stand is mostly red maple with some sugar maple present. Trees are poor quality. Stand should be marked to 70 sq. ft. basal area. Acceptable alternative management objectives include any species mixture found onsite.</p> <p>Access: A management easement from Mike Lund was recently obtained to access this stand. Easement restrictions include no harvesting operations from November 15 to November 30.</p> <p>Retention: Marking should include the retention of some trees that exhibit high wildlife values. Do not oak, hemlock, and cedar. Do not cut any other conifers unless needed for operability.</p> <p>[9/18/09 BB] Stand is now on proposal 17-09-01, Lock the Gate, Residual Basal Area = white pine = 2 sq ft, yellow birch = 9 sq ft, hard maple = 12 sq ft, red maple = 20 sq ft, white spruce = 5 sq ft, white birch = 3 sq ft, elm = 1 sq ft, ced = 5 sqft, fir = 4 sqft, b. ash = 1 sqft. Total 62 sq ft</p>
25	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.6	105	81-110	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	42200 - Natural White Pine	Sawtimber Well	17.4	109	111-140	<p>Access: A management easement from Mike Lund was recently obtained to access this stand. Easement restrictions include no harvesting operations from November 15 to November 30.</p> <p>[9/18/09 BB] Stand is now on proposal 17-09-01, Lock the Gate, Residual Basal Area = white pine = 36 sq ft, cedar = 3 sq ft, hem = 1 sq ft Total 40 sq ft</p>
27	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.9	105	111-140	
28	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	4.5	81	51-80	<p>OPIC - FMD: SCA- Corridor. Previously designated as old growth.</p> <p>Does not meet criteria for POG</p>
29	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	6.0	77	1-50	<p>OPIC - FMD: SCA-Corridor. Previously designated as potential old growth.</p> <p>Does not meet criteria for POG</p>
30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.2	105	111-140	<p>OPIC - FMD: Stand is mostly red maple with some sugar maple present. Trees are poor quality. Stand should be marked to 70 sq. ft. basal area. Acceptable alternative management objectives include any species mixture found onsite.</p> <p>Access: A management easement from Mike Lund was recently obtained to access this stand. Easement restrictions include no harvesting operations from November 15 to November 30.</p> <p>Retention: Marking should include the retention of some trees that exhibit high wildlife values. Do not oak, hemlock, and cedar. Do not cut any other conifers unless needed for operability.</p> <p>[9/18/09 BB] Stand is now on proposal 17-09-01, Lock the Gate, Residual Basal Area = white pine = 3 sq ft, yellow birch = 8 sq ft, hard maple = 18 sq ft, red maple= 25 sq ft, white spruce = 3 sq ft, white birch = 3 sq ft, elm = 2 sq ft, Total 63 sq ft</p>
31	4112 - Maple, Beech, Cherry Association	Sawtimber Well	45.6	105	111-140	<p>OPIC - FMD: Stand is mostly red maple and beech. Trees are poor quality. Stand should be marked to 70 sq. ft. basal area. Acceptable alternative management objectives include any species mixture found onsite.</p> <p>Access: A management easement from Mike Lund was recently obtained to access this stand. Easement restrictions include no harvesting operations from November 15 to November 30.</p> <p>Retention: Marking should include the retention of some trees that exhibit high wildlife values. Do not cut hemlock, oak, and cedar. Some white pine may be cut since there is a decent amount present. Two wet areas (M9) are present approximately 6 acres and 1 acre in size. These should be saved as retention patches.</p> <p>WLD would like to underplant hemlock following harvest.</p> <p>[9/18/09 BB] Stand is now on proposal 17-09-01, Lock the Gate, Residual Basal Area = white pine = 3 sq ft, yellow birch = 8 sq ft, beech = 2 sq ft, red maple= 33 sq ft, white spruce = 4 sq ft, cedar = 7 sq ft, black ash = 3 sq ft, cherry = 3 sq ft. Total 63 sq ft</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	6115 - Lowland Ash	Poletimber Medium	53.8	77	51-80	OPIC - FMD: Mixture of swamp hardwoods, swamp conifers, and lowland brush.
33	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.8	105	111-140	<p>OPIC - FMD: Stand is mostly red maple and beech. Trees are poor quality. Stand should be marked to 70 sq. ft. basal area. Acceptable alternative management objectives include any species mixture found onsite.</p> <p>Access: A management easement from Mike Lund was recently obtained to access this stand. Easement restrictions include no harvesting operations from November 15 to November 30.</p> <p>Retention: Marking should include the retention of some trees that exhibit high wildlife values. Do not cut hemlock, oak, and cedar. Some white pine may be cut since there is a decent amount present. Two wet areas (M9) are present approximately 6 acres and 1 acre in size. These should be saved as retention patches.</p> <p>WLD would like to underplant hemlock following harvest.</p> <p>[9/18/09 BB] Stand is now on proposal 17-09-01, Lock the Gate, Residual Basal Area = white pine = 3 sq ft, yellow birch = 10 sq ft, beech = 3 sq ft, hard maple = 2 sq ft, red maple = 27 sq ft, white spruce = 6 sq ft, white birch = 3 sq ft, cedar = 1 sq ft, hemlock = 4 sq ft, fir = 1 sq ft, cherry = 1 sq ft. Total 61 sq ft</p>
34	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	20.5	81	51-80	<p>OPIC - FMD: SCA-Corridor. Previously designated as potential old growth.</p> <p>Does not meet criteria for POG</p>
35	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	8.9	81	51-80	<p>OPIC - FMD: SCA-Corridor. Previously designated as potential old growth.</p> <p>Does not meet criteria for POG</p>
36	6113 - Lowland Maple	Poletimber Medium	26.9	71	51-80	
38	42210 - Natural Red Pine	Sawtimber Well	3.4	81	51-80	<p>OPIC - FMD: SCA-Corridor. Previously designated as potential old growth.</p> <p>Does not meet criteria for POG</p>
39	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	17.7	105	1-50	<p>OPIC - FMD: [12-10-03 BB] Stand was part of 37-99, cut in the winters of 00-02, there were some large openings made for delimeter, may want to look at regen in 2009, also there seemed to be a lot of blowdowns when the sale was closed. The road that was constructed through the sale was left open, this is intended to be the long term access to the north.</p> <p>Harvest last year of entry seemed to be more of a Shelterwood harvest than a selection harvest. Regeneration is very thick, diverse, and 10 to 15 feet tall. Most of the maple regeneration is stump sprouts. Some blown over trees were noticed, but not a lot. Stocking of residual trees is too low for another thinning in future years. Once canopy starts to close, some type of overstory removal may be needed. CLOSE FTP C41-932</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4113 - R.Maple, Conifer	Sawtimber Medium	14.2	105	81-110	Buffer to creek. Alder along creek edges.
41	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	3.8	81	51-80	OPIC - FMD: SCA- Corridor. Previously designated as old growth. Does not meet criteria for POG
42	6121 - Tamarack	Poletimber Medium	24.4	81	51-80	OPIC - FMD: SCA-Corridor. Previously designated as potential old growth. Does not meet criteria for POG
43	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	34.5	81	51-80	OPIC - FMD: SCA-Corridor. Previously designated as potential old growth. Does not meet criteria for POG
44	6113 - Lowland Maple	Poletimber Medium	101.6	76	51-80	
45	6113 - Lowland Maple	Poletimber Poor	64.0	81	1-50	
46	4112 - Maple, Beech, Cherry Association	Sawtimber Well	80.0	105	111-140	OPIC - FMD: Stand is mostly red maple and beech. Trees are poor quality. Stand should be marked to 70 sq. ft. basal area. Acceptable alternative management objectives include any species mixture found onsite. Access: A management easement from Mike Lund was recently obtained to access this stand. Easement restrictions include no harvesting operations from November 15 to November 30. Retention: Marking should include the retention of some trees that exhibit high wildlife values. Do not cut hemlock, oak, and cedar. Some white pine may be cut since there is a decent amount present. Two wet areas (M9) are present approximately 6 acres and 1 acre in size. These should be saved as retention patches. WLD would like to underplant hemlock following harvest. Adjacent compartment: Stand 11, compartment 23 should be included and have the same prescription as this stand. [9/18/09 BB] Stand is now on proposal 17-09-01, Lock the Gate, Residual Basal Area = white pine = 3 sq ft, yellow birch = 6 sq ft, beech = 4 sq ft, hard maple = 4 sq ft, red maple = 33 sq ft, white spruce = 3 sq ft, white birch = 4 sq ft, cedar = 6 sq ft, elm = 1 sq ft, black ash = 1 sq ft, fir = 1 sq ft, cherry = 1 sq ft. Total 67 sq ft
47	42220 - Natural Jack Pine	Poletimber Well	63.2	75	51-80	OPIC - FMD: A few pockets of older jack pine are present. Most of the stand is younger jack pine just reaching merchantability. Older jp mature and falling apart.
50	6130 - Fir, Aspen, Maple	Poletimber Well	6.3	77	51-80	OPIC - FMD: SCA-Corridor. Previously designated as potential old growth. Does not meet criteria for POG
52	4133 - Aspen, Mixed Pine	Sapling Well	51.9	20	Immature	OPIC - FMD: Mixed conifer regeneration present as well.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	4133 - Aspen, Mixed Pine	Sapling Medium	56.6	16	1-50	OPIC - FMD: Stand is regenerating well to aspen. There are also a decent amount of mixed hardwood and conifer regeneration present. Residual white pine and hemlock remain from previous harvest.
57	42210 - Natural Red Pine	Sawtimber Well	43.1	72	111-140	OPIC - FMD: [12-10-03 BB] Stand was part of 05-00, cut summer 2003. There was major problems with damage, the contractor was charged \$4100 in damages. Stand was harvested last year of entry. Residual basal area is inconsistent.
58	4133 - Aspen, Mixed Pine	Sapling Well	80.6	5	Immature	<p>OPIC - FMD: Stand is an even mixture of low quality red maple poles, aspen, and paper birch. Stand is in the process of converting to red maple/fir cover type. Adjacent stand of similar cover type was harvested last year of entry and has a diverse mixture of regeneration. The southern portion of the stand has a decent white pine component. Acceptable regeneration includes any current species mixture onsite.</p> <p>Greenup Guidelines: Adjacent aspen stand is 5 years old and greater than 5 feet tall.</p> <p>Retention Guidelines: Mark red pine and white pine to cut leaving some large seed trees and younger healthy poles. Do not cut hemlock, oak, and cedar. Northern finger of stand is surrounded by younger aspen and jack pine stands. This finger should be excluded from stand and left as a retention patch.</p> <p>[7/30/09 BB] Stand is now on proposal 41-18-09, actual stand acres = 70, retention patch was left on north as comments indicate. Residual BA; Red Pine 1sq ft, white pine 7 sq ft, cedar 6 sq ft, hemlock 1 sq ft</p> <p>[9/18/09 BB] Stand is now on proposal 18-09-01, No Gate, Residual Basal Area = white pine = 7 sq ft, red pine = 1 sq ft, cedar = 6 sq ft, hemlock = 1 sq ft, Total 15 sq ft</p> <p>(3/27/2012 AP) Stand was cut in fall 2011. Sale is closed. Check regeneration during next inventory cycle.</p>
59	42220 - Natural Jack Pine	Poletimber Well	134.5	46	Unspecified	OPIC - FMD: Stand is mostly younger jack pine with some aspen present. Scattered red pine logs are found throughout stand. Patches of older jackpine mixed throughout stand.
61	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	38.8	91	111-140	OPIC - FMD: Diverse stand. Maintain as river buffer.
62	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	42.2	91	111-140	OPIC - FMD: Diverse stand. Maintain as river buffer.
63	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	82.0	30	Immature	11/7/2016: Stand contains east-west drainages. Treat appropriately at time of next sale set up.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	42210 - Natural Red Pine	Sawtimber Well	5.1	69	81-110	<p>OPIC - FMD: Good red pine site. Stand is a thicker pocket of natural red pine. Thin stand to 80 basal area.</p> <p>Retention Guidelines: Do not cut hemlock and oak. Maintain a white pine component within stand. Leave some supercanopy trees.</p> <p>[7/30/09 BB] Stand is now on proposal 41-18-09, actual stand acres = 6, Residual BA; Red Pine 62 sq ft, white pine 3 sq ft</p> <p>[9/18/09 BB] Stand is now on proposal 18-09-01, No Gate, Residual Basal Area = white pine = 3 sq ft, red pine = 62 sq ft, Total 65 sq ft</p> <p>(3/27/2012 AP) Stand was cut in fall 2011. Sale is closed.</p>
66	42210 - Natural Red Pine	Sawtimber Well	5.6	69	81-110	<p>OPIC - FMD: Good red pine site. Stand is a thicker pocket of natural red pine. Thin stand to 80 basal area. Seasonal drain is located within stand. Keep all slash out of it and cross at one location only.</p> <p>Retention Guidelines: Do not cut hemlock and oak. Maintain a white pine component within stand. Leave some supercanopy trees.</p> <p>[7/30/09 BB] Stand is now on proposal 41-18-09, actual stand acres = 7, Residual BA; Red Pine 56 sq ft, white pine 10 sq ft</p> <p>[9/18/09 BB] Stand is now on proposal 18-09-01, No Gate, Residual Basal Area = white pine = 10 sq ft, red pine = 56 sq ft, Total 66 sq ft</p> <p>(3/27/2012 AP) Stand was cut in fall 2011. Sale is closed.</p>
70	42290 - Natural Mixed Pine	Poletimber Well	34.1	30	Immature	<p>OPIC - FMD: Even mixture of jack pine, red pine, and white pine. Stand is sparse with some open grown trees. Aspen is of poor quality.</p>
71	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.3	91	51-80	<p>OPIC - FMD: Diverse stand. Maintain as river buffer.</p>
72	42200 - Natural White Pine	Poletimber Medium	9.1	47	1-50	<p>OPIC - FMD: Former grass cover type that is filling in.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
3	6229 - Mixed lowland shrub	14.8	No	
15	6239 - Mixed Emergent Wetland	205.2	No	OPIC - FMD: SCA-Corridor. Previously designated as potential old growth. Does not meet criteria for POG
21	6239 - Mixed Emergent Wetland	35.9	No	OPIC - FMD: SCA- Corridor. Previously designated old growth. Does not meet criteria for POG
51	6239 - Mixed Emergent Wetland	75.3	No	OPIC - FMD: SCA-Corridor. Previously designated as potential old growth. Does not meet criteria for POG
60	500 - Water	16.7	No	OPIC - FMD: West Branch Manistique River
67	500 - Water	5.9	No	OPIC - FMD: Creighton River