



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41196

Entry Year 2017

Acreage: 1,260

County Alger

Management Area: Cusino Complex

Revision Date: 2015-08-04

Stand Examiner: Steve Touvila

Legal Description:

T46N R17W Sections 32 and 33

Identified Planning Goals:

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

Soil and topography:

The topography in this compartment is mostly flat with low wet areas; the soils are mainly Saugatuck, Wallace, Carbondale and Kinross, that are low in natural fertility. The Wallace sands will be slightly higher ground having the better drainage of the others where the Carbondale will have the slowest drainage supporting lowland conifers and non timber types. The SE part of section 32 and SW part of section 33 lie within the Shingleton Fen Land Type Association while the remainder of the compartment lies within the Munising Moraine Land Type Association.

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

Ownership within the compartment is State land except for a 40 in the NW1/4 NW1/4 of Section 32, which is with the limits of the town of Shingleton. South of the compartment is USFS lands and the remainder of the surrounding land is State.

Unique Natural Features:

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

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

The corridor of lows and swamp conifers that are surrounding Hickey Creek are under consideration for potential old growth classification. The Department of Corrections has a water waste pipe that is in the NW1/4 of Section 32.

Watershed and Fisheries Considerations:

Hickey Creek is found in this compartment and is classified as cold water. This stream supports a cold-water fishery community, including brook trout, and thus should be protected from inputs of sediments which cover spawning gravels. BMP's should be followed as inputs of sediment and increases in sand bedload need to be prevented.

Wildlife Habitat Considerations:

This compartment lies immediately south and east of Shingleton. The compartment is a composite of open marsh and low forested ridges. The Hickey Creek runs northwest to southeast across the central portion of the compartment. General land office survey notes show that in the 1850s, lowlands were dominated by conifers including spruce, tamarack, hemlock, white pine and cedar. Balsam fir was also fairly prevalent. Deciduous species occurred in lesser amounts. Species reported in this compartment included yellow birch, red maple, beech, sugar maple, white birch and black ash., spruce, and tamarack. Current forest composition appears to have shifted toward deciduous species in the northeast and southwest edges of the compartment. The majority of the compartment appears to have similar species composition as found circa 1850. Featured species in this compartment are American marten, moose, bear, gray jay, northern goshawk, ruffed grouse, and white-tailed deer. Wildlife habitat goals in this compartment include enhancing the hemlock and white pine components in the hardwoods of the southwestern portions, maintaining the aspen component in the northeastern portion and protecting the wetland integrity through the main body of the compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor peat and muck. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River and Prairie du Chien (PdC) Formations subcrop below the glacial drift. The Black River is quarried for stone elsewhere in the UP. There is a gravel pit in Section 19 and there should be good potential. There is no commercial oil and gas production in the UP.

Vehicle Access:

Access to the compartment is poor to fair even though M-94 cuts through the SW part of the compartment and M-28 is the northern boundary. The type of soils does not allow for many forest roads that would not be classified as "winter" roads.

Survey Needs:

None.

Recreational Facilities and Opportunities:

The Hickey Creek offers good fishing in the compartment with access off Birch Street in Shingleton. Snowmobile trail #41 goes through section 32 and offers access to town and other trails heading north and west out of town.

Fire Protection:

Fire response to the area will be fairly rapid. Shingleton station is less than a ½ mile from the compartment via M-28. The current road system would not be sufficient for fire operations; however the timber types present are not of high fire potential. The only real urban interface problem within the compartment would be in the private 40 in section 32.

Additional Compartment Information:

The following reports from the Inventory are attached:

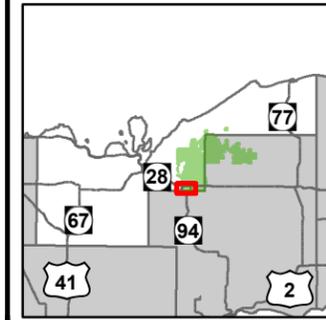
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

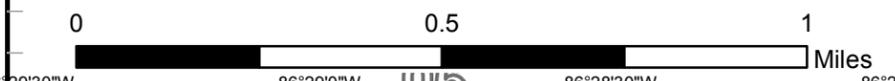
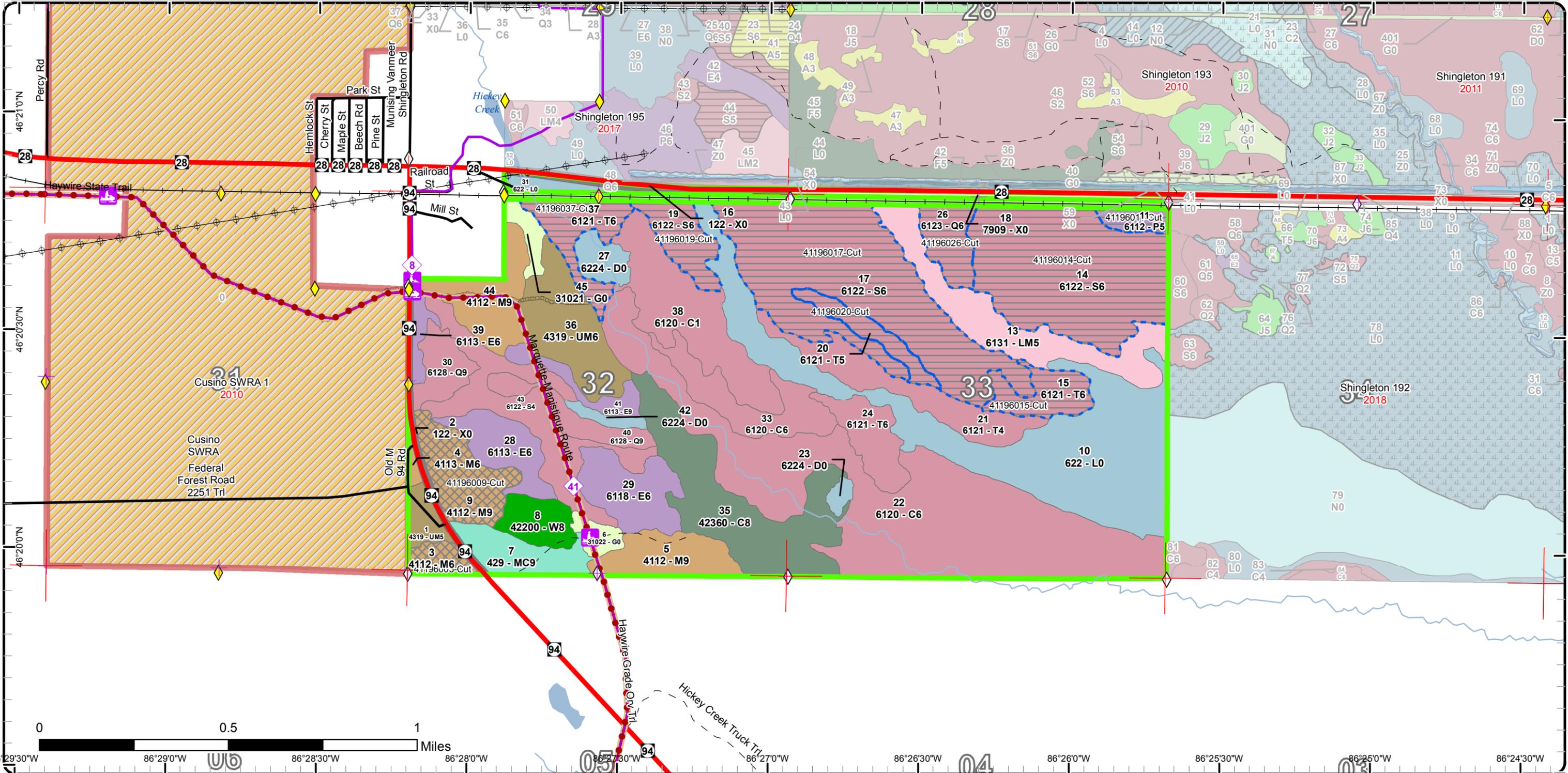
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 196
 T46N, R17W, Sec: 32, 33
 County: Alger
 Unit: Shingleton
 Mgmt Area: Casino Complex
 YOE: 2017
 Acres: 1260 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 8/28/2015
 Map Phase: Review



- ✚ Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- ORV Routes
- SNOWMOBILE TRAILS
- Designated Equestrian Trails
- Designated ORV Routes
- Designated Snowmobile Trails
- Designated Railtrails
- Railroads
- Rivers
- Lakes
- Pipeline
- Powerline
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Forest Coverture
 - 411 - Northern Hardwood
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
- Non-Forest Coverture
 - 122 - Roads/Parking Lot
 - 310 - Herbaceous Openland
 - 622 - Lowland Shrub
 - 790 - Other Bare/Sparsely Vegetated
- 430 - Upland Mixed Forests
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest



86°29'30"W 86°29'0"W 86°28'30"W 86°28'0"W 86°27'30"W 86°27'0"W 86°26'30"W 86°26'0"W 86°25'30"W 86°25'0"W 86°24'30"W

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
Bare/Sparsely Vegetated	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Cedar	0	0	0	0	0	0	0	0	0	51	0	68	0	28	0	0	0	185	332
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	29
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Lowland Shrub	142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	18	223	0	0	0	0	0	0	0	0	241
Northern Hardwood	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	82
Tamarack	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	105
Treed Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20
Upland Mixed Forest	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	47
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
Total	198	0	0	0	0	8	7	0	46	290	0	68	0	28	0	0	0	617	1262



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 196
Total Compartment Acres: 1,260

Commercial Harvest - 36
Harvests with Site Condition - 314
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
Lowland Aspen/Balsam Poplar	7	0	0	0	0	0	0	0	0	7
Lowland Conifers	16	0	0	0	0	0	0	0	0	16
Lowland Spruce/Fir	241	0	0	0	0	0	0	0	0	241
Northern Hardwood	0	36	0	0	0	0	0	0	0	36
Tamarack	51	0	0	0	0	0	0	0	0	51
Total	314	36	0	0	0	0	0	0	0	351

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	351	0	0	0	0	0	0	0	0	351
Next Step	0	0	0	0	0	0	351	0	0	351
Total	351	0	0	0	0	0	351	0	0	702



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
3	41196003-Cut	8.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	75	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Mark to reduce residual BA to 80 square feet. Favor sherry where present. Don't cut hemlock or oak.

Specs:

Next Step

Treatments:

Acceptable Northern Hardwoods

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

9	41196009-Cut	28.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	80	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Maple/Cherry Pole Stand: Thin stand concentrate on large gaps favoring cherry, do not cut hemlock or oak, cut all balsam fir.

Specs:

Next Step

Treatments:

Acceptable Maple and cherry

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

11	41196011-Cut	7.0	6112 - Lowland Aspen	Poletimber Medium	53	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Denied Access**

Prescription Leave a few scattered white pine as retention. Cut all species except Hemlock and Oak. Cut trees down to 2" DBH.

Specs:

Next Step

Treatments:

Acceptable Lowland deciduouswith some lowland coniferous.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

14	41196014-Cut	99.7	6122 - Black Spruce	Poletimber Well	80	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: Denied Access**

Prescription Cut all species except Hemlock and Oak. Retention areas should include Large White pine.

Specs:

Next Step

Treatments:

Acceptable Any species that is currently in the stand.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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
15	41196015-Cut	17.4	6121 - Tamarack	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	Proposal

Habitat Cut: No **Site Condition: Denied Access**

Prescription Cut all species but leave Hemlock and oak. Leave white pine in retention pockets.

Specs:

Next Step

Treatments:

Acceptable Any species found on site.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

17	41196017-Cut	123.3	6122 - Black Spruce	Poletimber Well	80	111- 140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No **Site Condition: Denied Access**

Prescription Cut all trees except hemlock and oak. The hemlock came across was in the southeast part of the stand. There's a mix of 8" down to sapling size hemlock there. This would be a good spot for retention. Another good retention area would be on the north central edge of the stand. Here there is a couple acre stand of white pine, from 18" down to 5" DBH.

Specs:

Next Step

Treatments:

Acceptable Black spruce and some mixed lowland coniferous.

Regen:

Other Threatened species, check MNFI. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

19	41196019-Cut	17.6	6122 - Black Spruce	Poletimber Well	78	111- 140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No **Site Condition: Denied Access**

Prescription Cut all species except hemlock and oak. Leave some white pine within retention.

Specs:

Next Step

Treatments:

Acceptable Black spruce with some balsam fir, white pine, and red maple.

Regen:

Other Threatened species check MNFI. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

20	41196020-Cut	12.3	6121 - Tamarack	Poletimber Medium	78	51-80	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	Proposal
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Habitat Cut: No **Site Condition: Denied Access**

Prescription Cut all species except Hemlock and Oak. retention areas should include large white pine.

Specs:

Next Step

Treatments:

Acceptable Mixed coniferous or deciduous.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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
26	41196026-Cut	15.8	6123 - Lowland Fir	Poletimber Well	80	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal

Habitat Cut: No **Site Condition: Denied Access**

Prescription Cut all species except Hemlock and Oak. Leave some retention.

Specs:

Next Step

Treatments:

Acceptable Black SpruceBalsam FirWhite PineRed Pinesome lowland deciduous

Regen:

Other Threatened species check MNFI. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

37	41196037-Cut	21.2	6121 - Tamarack	Poletimber Well	70	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal
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Habitat Cut: No **Site Condition: Denied Access**

Prescription Cut all trees on site except hemlock and oak. Leave a retention pocket within stand.

Specs:

Next Step

Treatments:

Acceptable Any species Currently on site

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 350.8

Report 5 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 196
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2A	3A
		With Condition	Not Available				
11	11	0	0	Bare/Sparsely Vegetated			
333	0	0	333	Cedar		333	0
13	13	0	0	Herbaceous Openland			
7	0	0	7	Lowland Aspen/Balsam Poplar		7	
44	29	0	16	Lowland Conifers		16	
65	65	0	0	Lowland Deciduous			
49	0	0	49	Lowland Mixed Forest		49	
142	7	0	135	Lowland Shrub		134	0
288	48	0	241	Lowland Spruce/Fir		241	
90	90	0	0	Northern Hardwood			
105	0	0	105	Tamarack		105	
17	4	0	13	Treed Bog		13	
20	0	20	0	Upland Conifers	20		
47	47	0	0	Upland Mixed Forest			
15	15	0	0	Urban			
15	15	0	0	White Pine			
1,260	343	20	897	Total Forested Acres	20	897	0
	27%	2%	71%	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	2A: Adjacent landowner denied access	897	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area between the railroad and the Hickey Creek, no access.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Report 6 – 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
Unspecified	Other SCA		SCA Removal	463
Comments doesn't meet SCA criteria				
Unspecified	Potential Old Growth		SCA Removal	405
Comments doesn't meet SCA criteria				

**Report 7 – 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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4319 - Mixed Upland Forest	Poletimber Medium	8.0	42	51-80	A lot of non-merchantable trees. There's less trees in the southern part of the stand. The trees are in patches with some smaller open areas between them with thick herbaceous plants and bracken fern.
3	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.1	75	141-170	Poor quality stand that is ready for thinning. Don't cut hemlock or oak.
4	4113 - R.Maple, Conifer	Poletimber Well	1.9	40	51-80	Small strip along M-94, young stand.
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	24.0	70	51-80	It was two separate stands in 2007 cut in 2010. Sawmill Hardwood (047-10) "Cut all trees marked in Orange and cut all Aspen, Spruce and Balsam". Stand is now a lower stocked Red maple stand. residuals were recorded from Error combining sheet.
7	429 - Mixed Upland Conifers	Sawtimber Well	19.9	80	111-140	Conifer stand with dense canopy.
8	42200 - Natural White Pine	Sawtimber Medium	14.6	70	1-50	Clumps of White pine and cherry with grass and lichen in between clumps.
9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	28.3	80	111-140	Scattered Y. Birch. All trees within stand are between 8 and 10 inches in DBH.
11	6112 - Lowland Aspen	Poletimber Medium	7.0	53	51-80	
13	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Medium	48.8	25	1-50	Lowland mix with dominant species being low quality red maple. Seems to be converting more towards low quality red maple. Tamarack is dying back. Threatened species check MNFI.
14	6122 - Black Spruce	Poletimber Well	99.7	80	81-110	
15	6121 - Tamarack	Poletimber Well	17.4	78	81-110	
17	6122 - Black Spruce	Poletimber Well	123.3	80	111-140	The only hemlock I came across was a small patch in the southeast end of the stand. Good spot for retention as there is mixed age Hemlock from 10" down to sapling size. Another possible retention area is in the center of the north end where there is a mixed diameter white pine stand.
19	6122 - Black Spruce	Poletimber Well	17.6	78	111-140	
20	6121 - Tamarack	Poletimber Medium	12.3	78	51-80	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	6121 - Tamarack	Poletimber Poor	34.1	78	1-50	Threatened species check MNFI. Lowland water stressed stand of poor quality and low basal area. Understory consists of moderate tag alder and cedar; and light balsam fir, black spruce, red maple, and tamarack.
22	6120 - Lowland Cedar	Poletimber Well	184.9	130	81-110	Cedar is poor form, approximately 10% of the tops are dying back. Threatened species check MNFI.
24	6121 - Tamarack	Poletimber Well	19.6	78	81-110	Threatened species check MNFI. If we can cut the other stands on the east side of the compartment this stand should be looked at again for possible cutting too. This stand is a mix of mature tamarack with cedar being the other component in the stand. The cedar is only about 6" dbh on average and gets thicker as you go west and south. It may be too thick to operate in if the cedar isn't cut.
26	6123 - Lowland Fir	Poletimber Well	15.8	80	81-110	
28	6113 - Lowland Maple	Poletimber Well	21.2	45	81-110	Low Red maple stand, wet soils very poor quality. Patches of spruce that are thicker in spots.
29	6118 - Lowland Deciduous with Cedar	Poletimber Well	27.9	40	81-110	Lowland Red maple stand, seasonal wetness. A mix of cedar and other scattered conifers.
30	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	14.2	80	51-80	Lowland stand with trees growing on hummocks. Very poor quality red maple and aspen.
33	6120 - Lowland Cedar	Poletimber Well	27.9	125	51-80	Threatened species check MNFI.
35	42360 - Upland Cedar	Sawtimber Medium	68.4	100	51-80	Cedar bog. Sphagnum moss cover the ground. This area is a flood zone for the Hickey creek.
36	4319 - Mixed Upland Forest	Poletimber Well	39.1	71	81-110	Mix of everything, nothing too old, some scattered opening mixed throughout, bushy trees.
37	6121 - Tamarack	Poletimber Well	21.2	70	81-110	Tamarack and Black spruce with wet soils, alder in the understory.
38	6120 - Lowland Cedar	Sapling Poor	51.5	80	1-50	Threatened species see inventory. The last inventory says the stand may have been cut in the 30's-40's based on evidence of winter roads on '53 air photos. Water stressed cedar and birch, will never be a productive stand. Some areas are even close to treed bog category.
39	6113 - Lowland Maple	Poletimber Well	5.4	35	81-110	Lowland area along highway with water in the ditch. There was a really upset turkey hen, probably because I almost stepped on one of her chicks.
40	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	14.4	80	81-110	Lowland mixed conifer with red maple. Transition ridge from low to high ground.

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Shingleton Mgt. Unit

Report 8 – Forested Stands

Compartment: 196
Year of Entry: 2017



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	6113 - Lowland Maple	Sawtimber Well	10.1	50	81-110	Mixed lowland stand, wet soils, young maple.
43	6122 - Black Spruce	Poletimber Poor	47.6	58	1-50	Lowland with spruce clumps, Tag Alder filling in most areas.
44	4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.6	70	81-110	Cut in 1987 and then again in 2010 part of Sawmill Hardwood (047-10) "Cut all trees marked in Orange and cut all Aspen, Balsam and Spruce". Stand is now a lower stocked red maple stand with mixed cherry.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	122 - Road/Parking Lot	8.3	No	M-94
6	31022 - Warm Season Grass	6.0	No	Grass opening with pin cherry scattered throughout.
10	622 - Lowland Shrub	134.6	No	Threatened species check MNFI. Marsh area with some scattered water stressed 10-15' tall tamarack. Overall low density tag alder.
16	122 - Road/Parking Lot	6.7	No	M-28 R-O-W
18	7909 - Nonstocked (OI)	11.3	No	OPIC - FMD: Highway M-28 R.O.W. At the 2007 Compartment Review, it was decided to remove all Scotch Pine along M-28.[6/20/06 km] FTP# W41-1296 - Scotch Pine Removal(8/20/10) FTP# W41-1296 cancelled. Suggest new FTP under new system for scotch pine removal.
23	6224 - Treed Bog	3.1	No	
27	6224 - Treed Bog	9.8	No	
31	622 - Lowland Shrub	6.9	No	Lowland brush and part of Hickey Creek between the highway R.O.W. and the privately-owned railroad tracks. Soils are classified as type 57 (Carbondale muck.)
42	6224 - Treed Bog	4.0	No	Treed bog, wet.
45	31021 - Cool Season Grass	6.7	No	SAWDUST PILES: Stand was permitted for sawdust back in the late 70's until the early 90's. Permit did not specify removal. In 2004 all other mill items that were on site were removed via trespass report to owner. Piles are now grown over with grass, making large mounds/hills.