



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41185

Entry Year 2019

Acreage: 1,232

County Alger

Management Area: Cusino Complex

Revision Date: 2017-02-08

Stand Examiner: Scott Kentner

Legal Description:

T46N R17W Sections 7-9,16,18

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 mainly flat to low with conifer swamps. Rubicon sand and Houghton Muck are the two soils. The Rubicon sand, which is naturally low in fertility, carries the upland species in this compartment and the muck soils are for the cedar and low marsh areas. Most of the compartment falls into the Munising moraine II LTA and the cedar types are within the Cusino Swamp LTA.

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

The compartment has a broken ownership that is mixed with regular private lands. The compartment has high use from the surrounding properties.

Unique Natural Features:

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

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

The entire compartment (minus stands 2,3 and 58) are an SCA for deer yard management.

Watershed and Fisheries Considerations:

Stoney, Humphrey, and Prarie Creeks are found within this compartment. 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.

Wildlife Habitat Considerations:

This fragmented compartment lies north of Shingleton. Portions are located along Percy road west of town while the remainder is found on the north end of the Petrel Deeryard east of town. Pre-settlement data show northern hardwoods and cedar/spruce swamps as the dominant forest types within the compartment. Within the northern hardwoods, sugar maple, yellow birch, and hemlock prevailed with only a small amount of beech, white pine, and ironwood mixed in. In the lowland cedar and spruce stands tamarack, elm, red maple, and ash were also present. The species composition of the swamp conifer stands appears to be similar to that found circa 1850. The northern likely have reduced abundance of hemlock and yellow birch. The northwestern corner of this compartment contains more aspen than found in the pre-settlement times. This compartment lies within the Petrel Deer Yard. As such, wildlife habitat management objective include maintaining the closed canopy coniferous cover, maintaining the old camp 3 openings as a break out area, and re-establishing hemlock as an important component with the northern hardwood system.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of medium-textured till and peat and muck. The glacial drift thickness varies between 0 and 50 feet. The Ordovician Prairie du Chien (PdC) Formation subcrops below the glacial drift. The PdC could be used for stone. There is a gravel pit in Section 19 and potential appears to be good on the uplands. There is no commercial oil and gas production in the UP.

Vehicle Access:

Access is fair. Most of the upland areas have some kind of vehicle access.

Survey Needs:

none

Recreational Facilities and Opportunities:

The snowmobile trail runs through section 8.

Fire Protection:

There is not a large wildfire issue for this compartment. The timber types are mainly upland hardwood or conifer swamps.

Additional Compartment Information:

The following reports from the Inventory are attached:

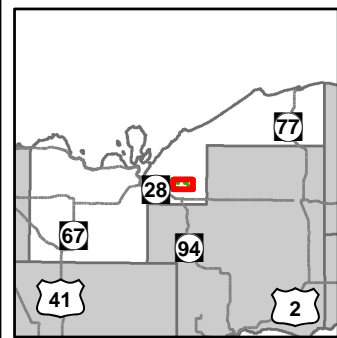
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

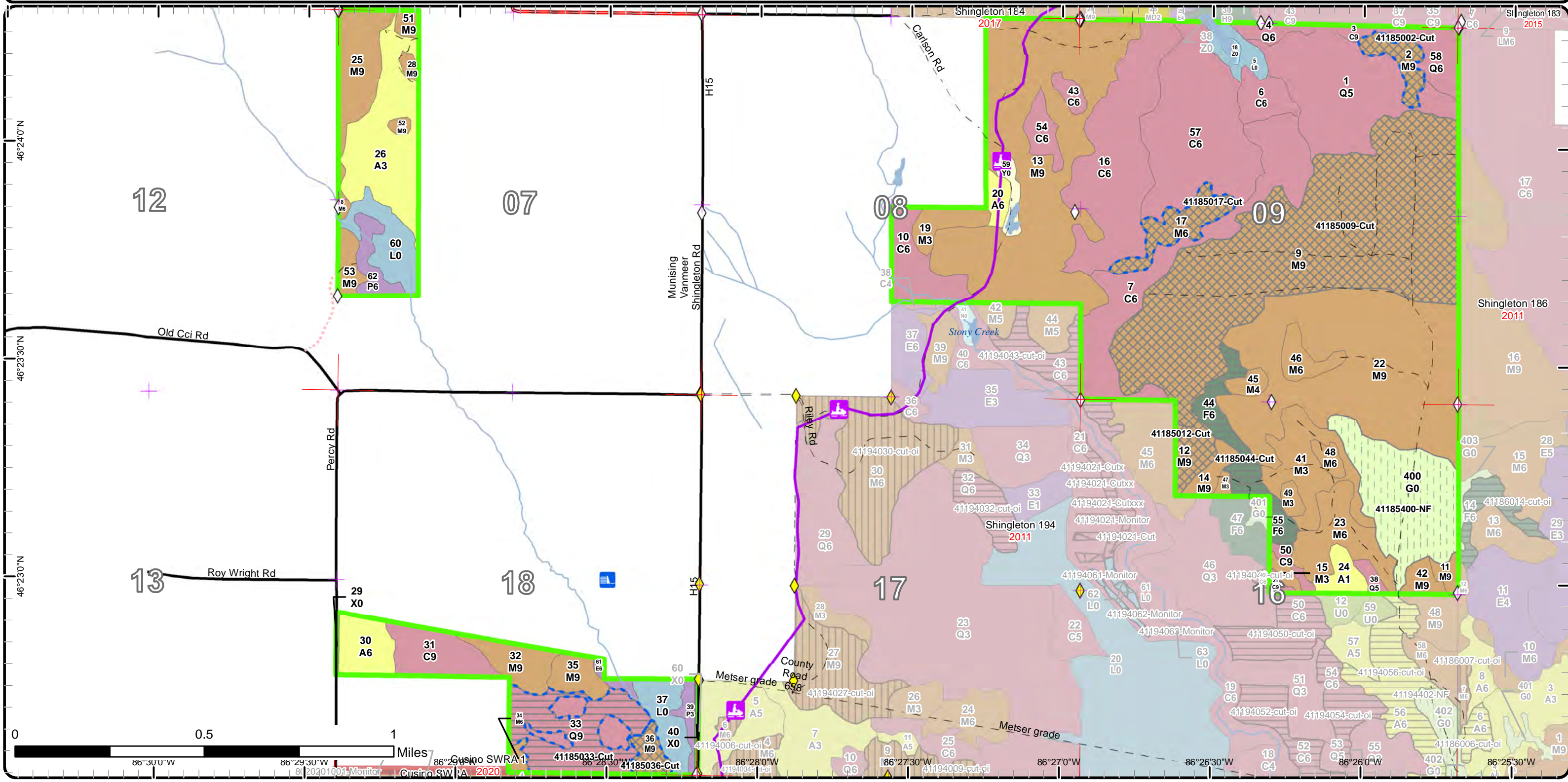
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 185
 T46N, R17W, Sec: 7-9, 16, 18
 County: Alger
 Unit: Shingleton
 Mgmt Area: Casino Complex
 YOE: 2019
 Acres: 1232 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 8/23/2017
 Map Phase: Review

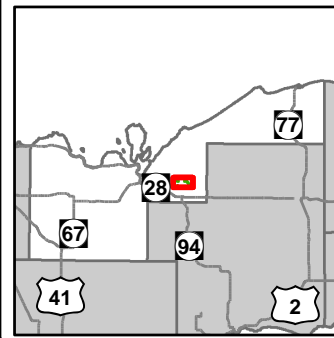


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- Dams
- Snowmobile Trails
- Designated Snowmobile Trails
- Paved Roads
- Gravel Roads
- - Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil
- Lakes

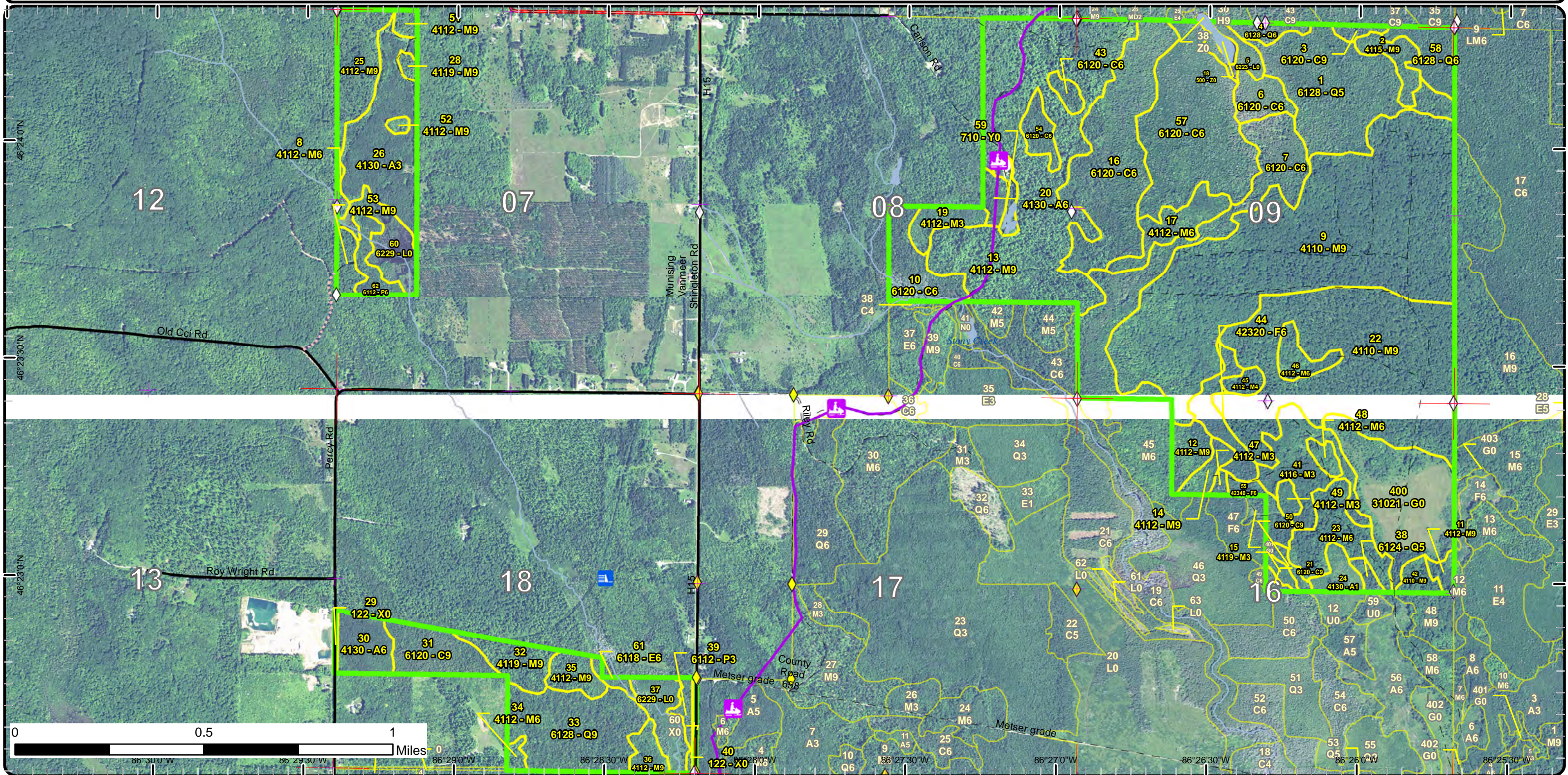


Stand Boundary Map

Compartment: 185
 T46N, R17W, Sec: 7-9, 16, 18
 County: Alger
 Unit: Shingleton
 Mgmt Area: Casino Complex
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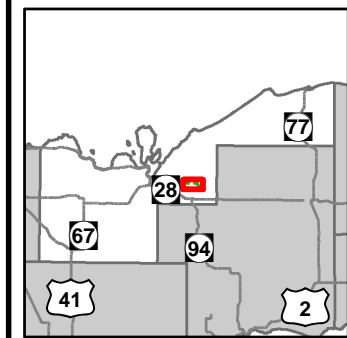


- Miris Corners
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- ◊ Field Grade GPS Corners
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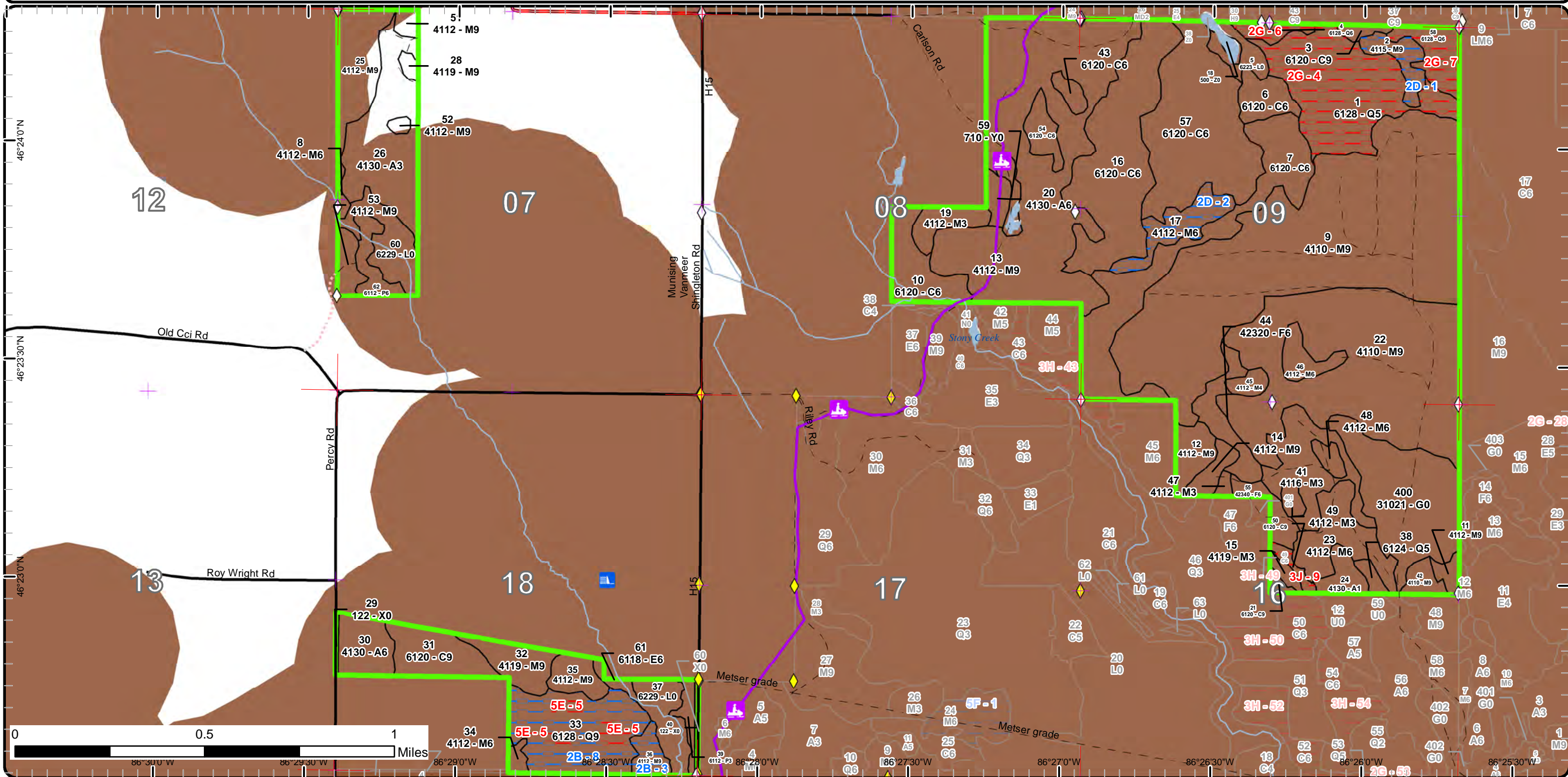


Special Conservation Areas & Site Conditions Map

Compartment: 185
 T46N, R17W, Sec: 7-9, 16, 18
 County: Alger
 Unit: Shingleton
 Mgmt Area: Casino Complex
 YOE: 2019
 Acres: 1232 GIS Calculated
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- Counties
- Dams
- Snowmobile Trails
- Designated Snowmobile Trails
- Paved Roads
- Gravel Roads
- - Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- - - 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- - - 2G: Too wet (sensitive soils, does not include access issues)
- - - 3J: Water quality / BMPs (stream, river, or lake)
- - - 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- 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	7	0	43	19	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Cedar	0	0	0	0	0	0	0	0	0	0	0	81	168	0	0	0	0	2	251
Herbaceous Openland	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Aspen/Balsam Poplar	0	0	0	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	0	3	0	0	72	5	0	44	0	0	0	0	0	0	124
Lowland Deciduous	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Shrub	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Northern Hardwood	0	0	9	3	0	0	0	0	2	0	0	0	0	0	0	0	0	644	658
Sand, Soil	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	7	20
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	97	7	9	54	39	3	0	0	72	7	0	125	168	0	0	0	0	653	1232



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 185
Total Compartment Acres: 1,232

Commercial Harvest - 234
Harvests with Site Condition - 66
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 Conifers	36	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	244	0	0	0	0	0	0	0	244
Upland Spruce/Fir	20	0	0	0	0	0	0	0	0	20
Total	56	244	0	0	0	0	0	0	0	300

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	300	0	0	0	0	0	0	51		351
Next Step	0	0	0	0	0	300	0	153		453
Total	300	0	0	0	0	300	0	204		803



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
2	41185002-Cut	8.8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	70	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
Habitat Cut: No			Site Condition: Portable Bridge Needed								
<u>Prescription</u> Single Tree Selection: Mark stand to 80 BA following the complete marker guidelines. Best access is from the south, bridge needed to cross											
<u>Specs:</u> creek.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any species currently on site.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
9	41185009-Cut	204.6	4110 - Sugar Maple Association	Sawtimber Well	80	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Single Tree Selection: Mark stand to 80 BA following the Complete Marker Guidelines. Some areas within stand have lower residual BA and											
<u>Specs:</u> might not require much marking. Harvest in the winter.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any species currently on site.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
12	41185012-Cut	9.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	70	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Single Tree Selection: Mark stand to 80 BA following the Complete Marker guidelines. Designate all Spruce and Balsam fir to be cut.											
<u>Specs:</u> Harvest stand in the winter.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any species currently in site.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
17	41185017-Cut	14.7	4112 - Maple, Beech, Cherry Association	Poetimber Well	70	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
Habitat Cut: No			Site Condition: Portable Bridge Needed								
<u>Prescription</u> Single Tree Selection: Mark stand to 80 Ba following the Complete Marker guidelines. Access from the south requires a bridge to cross stream,											
<u>Specs:</u> access from the west will require winter road construction. Harvest stand in the winter.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any species currently in site.											
<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
33	41185033-Cut	35.7	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	107	111- 140	Harvest	Clearcut with Retention	6118 - Lowland Deciduous with Cedar	Even-Aged	Proposal

Habitat Cut: No Site Condition: Unknown Access

Prescription Clearcut with Retention: Remove all species within stand. Leave a retention pocket within stand that encompasses dense cedar pockets.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any species currently on site.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

36	41185036-Cut	6.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	87	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No Site Condition: Unknown Access

Prescription Single Tree Selection: Mark stand to 80 BA following the Complete Marker guidelines. Remove all Balsam and Spruce. Access from the south
Specs: may be thru private land via private bridge. Harvest stand in the winter.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any species currently on site.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

44	41185044-Cut	13.0	42320 - Upland Spruce	Poletimber Well	37	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Clearcut with Retention: Remove all species within stand down to 2". Leave Cedar if found. Leave a retention pocket within stand that is 3-5% of
Specs: stand acreage.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any species currently on site.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

55	41185055-Cut	7.2	42340 - Upland Spruce/Fir	Poletimber Well	70	111- 140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Clearcut with Retention: Remove all species within stand down to 2". Leave cedar if found. Leave a retention pocket within stand that is 3-5% of
Specs: stand acreage.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any species currently on site.
Regen:

Other
Comment:

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
400	41185400-NF	51.0	31021 - Cool Season Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Prescribed fire, farming (dozing, disking, raking, seeding (native or naturalized species only), fertilizing, liming), chainsaw or mechanical removal
Specs: of competing trees and establishment of native hard and soft mast producers such as red oak, mtn ash or others

Next Step NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Fruit Tree/Shrub Planting
Treatments:

Acceptable
Regen:

Other Percent to Treat = 100%

Comment: W41-1500

Proposed Start Date: 03/10/2017

Total Treatment Acreage Proposed: 350.5

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 185
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				2B	2D	2G	3J	5E
69	69	0		0	Aspen					
250	247	0		3	Cedar				3	
51	51	0		0	Herbaceous Openland					
12	12	0		0	Lowland Aspen/Balsam Poplar					
123	3	36		85	Lowland Conifers	36		77		8
2	2	0		0	Lowland Deciduous					
37	37	0		0	Lowland Shrub					
658	628	30		0	Northern Hardwood	6	24			
5	5	0		0	Sand, Soil					
20	20	0		0	Upland Spruce/Fir					
2	2	0		0	Urban					
2	2	0		0	Water					
1,232	1,079	66		88	Total Forested Acres	42	24	77	3	8
	88%	5%		7%	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	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Scott Kentner : Examiner

Compartment: 185
 Year of Entry: 2019

3	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	59	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2B: Unknown if access through adjacent landowner(s) is possible	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 185
Year of Entry: 2019

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	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	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.
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	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	59.0	78	111-140	SCA - deer yard-deer yard considerations.
2	4115 - Y.Birch, Hemlock NH	Sawtimber Well	8.8	70	81-110	Slight elevation change from the surrounding swamp stand is allowing for hemlock, white pine and maple to grow better.
3	6120 - Lowland Cedar	Sawtimber Well	2.7	106	81-110	OPIE - FMD: Cedar is poor to fair quality. Most of the fir has died out.
4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.1	89	111-140	SCA - deer yard-deer yard considerations. Cedar is poor to fair quality. Most of the fir has died out.
6	6120 - Lowland Cedar	Poletimber Well	10.1	116	141-170	SCA - deer yard-deer yard considerations. Stand had to have been cut but can't find records. The more northern part of the stand has cattails. This stand should be added to "Alger Co. Worst Day Hikes".
7	6120 - Lowland Cedar	Poletimber Well	53.1	116	111-140	SCA - deer yard-deer yard considerations. Humphrey Creek runs through the center of the stand.
8	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.7	87	51-80	SCA - deer yard-deer yard considerations. Lots of beaver activity around the stand. Stand is a nice 'knob' around the wet ground. [2-11-11] Stand is now under contract TS 41-003-10-01 Percy Rd hardwood. Residual BA: mixed hardwood = 72 sq.ft./acre. [3-5-13] Sale is completed TCR dtd 11-28-12.
9	4110 - Sugar Maple Association	Sawtimber Well	204.6	80	111-140	SCA - deer yard-deer yard considerations. TCR 2/19/99 SALE #026-95-01. There is more spp diversity by the swamp edge. There is good regeneration coming in from the cut including yellow birch, cherry and beech.
10	6120 - Lowland Cedar	Poletimber Well	18.3	116	111-140	SCA - deer yard-deer yard considerations. Stand should be left to buffer Stoney Creek, beaver activity has caused the west 1/2 of the stand to die or start to die.
11	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.3	70	81-110	
12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.2	70	81-110	SCA - deer yard-deer yard considerations. BA 100 - 110
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	131.3	80	81-110	SCA - deer yard-deer yard considerations. Snowmobile trail goes through the stand. [4/15/03] Stand was cut under TS#011-00 Melstrand Maple [10/25/04] Sale is now closed.
14	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.8	70	51-80	SCA - deer yard-deer yard considerations. TCR 2/19/99 Sale # 026-95-01.
15	4119 - Mixed Northern Hardwoods	Sapling Well	2.4	25	111-140	SCA - deer yard-deer yard considerations.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	6120 - Lowland Cedar	Poletimber Well	64.7	116	111-140	SCA - deer yard-deer yard considerations. Stand was picked through in the 40's and 70's.
17	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.7	70	111-140	SCA - deer yard-deer yard considerations. Scattered yb and ch especially near the edges.
19	4112 - Maple, Beech, Cherry Association	Sapling Well	8.7	15	Immature	[4/15/03] Stand was cut under TS#011-00 Melstrand Maple, with a few cedar left as a seed source. [10/25/04] Sale is now closed.
20	4130 - Aspen	Poletimber Well	5.0	37	141-170	
21	6120 - Lowland Cedar	Sawtimber Well	1.5	100	111-140	SCA - deer yard-deer yard considerations. The majority of the stand is in the adjacent cmpt.
22	4110 - Sugar Maple Association	Sawtimber Well	131.4	80	51-80	SCA - deer yard-deer yard considerations. CUT IN 1979. [11-04-10] Stand is now under contract TS# 41-030-09-01 185 Hardwoods. Residual Ba: Sugar maple = 71; basswood = 2; b.cherry = 3; spruce/fir = 1; total = 76 sq.ft./acre Sale is closed (it was cut in winter of 2013-14 by Spencer FP) TCR date (7/14/14)
23	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.7	70	51-80	OPIC - FMD: SCA - deer yard-deer yard considerations. FDF - Under contract TS #17-02 Camp 3 Maple. [4/5/05] Cutting is complete and the sale is closed. Lots of tops were left in the stand with a small area on the west that was left b/c of the wet ground.
24	4130 - Aspen	Sapling Poor	6.9	2	Immature	SCA - deer yard-deer yard considerations. [11-04-10] Stand is now under contract TS# 41-030-09-01 185 Hardwoods. Sale is closed (it was cut in winter of 2019-10 by Spencer FP) TCR date 7/14/14(RH7/31/14)
25	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.6	87	81-110	SCA - deer yard-deer yard considerations. FDF. [2-11-11] Stand is now under contract TS 41-003-10-01 Percy Rd hardwood. Residual BA: mixed hardwood = 92 sq.ft./acre. [3-5-13] Sale is now completed TCR dtd 11-28-12.
26	4130 - Aspen	Sapling Well	42.8	22	Immature	SCA - deer yard-deer yard considerations. Access is through pvt. Small creek on the west edge of the stand. Couple of hardwood islands in the stand. Mix of aspen, hwd, cherry and fir in the stand. Cutting has brought beaver activity to the area and has increased the water in the south part of the stand.
28	4119 - Mixed Northern Hardwoods	Sawtimber Well	1.8	87	51-80	SCA - deer yard-deer yard considerations. Access is through PVT to avoid drain/creek area. [2-11-11] Stand is now under contract TS 41-003-10-01 Percy Rd hardwood. Residual BA: mixed hardwood = 70 sq.ft./acre. [3-5-13] Sale is now completed TCR dtd 11-28-12.
30	4130 - Aspen	Poletimber Well	13.8	32	141-170	SCA - deer yard-deer yard considerations. Stand was cut in '85.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	6120 - Lowland Cedar	Sawtimber Well	18.6	117	171-200	SCA - deer yard-deer yard considerations.
32	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.9	58	51-80	SCA - deer yard-deer yard considerations. Thinned in '76. Access through PVT. [3-5-13] Stand was select cut under TS 41-003-10-01, TCR dtd 11-28-12. Residual BA = 67 hardwood + 7 conifer for a total of 74 sq.ft./acre.
33	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	44.2	107	111-140	SCA - deer yard-deer yard considerations. Stand was picked through in '44 and '57 giving it a very patchy look.
34	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.3	87	81-110	SCA - deer yard-deer yard considerations. Stand cut by trespass spring 1998.
35	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.7	87	81-110	SCA - deer yard-deer yard considerations. Stand treated in '76. Treat to maintain diversity. 99=beech, yb, white birch. Access through PVT. [2-11-11] Stand is now under contract TS 41-003-10-01 Percy Rd hardwood. Residual BA: mixed hardwood = 82 sq.ft./acre. [3-5-13] Sale is now completed TCR dtd 11-28-12.
36	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.3	87	111-140	SCA - deer yard-deer yard considerations.
38	6124 - Lowland Spruce-Fir	Poletimber Medium	2.6	45	81-110	SCA - deer yard-deer yard considerations.
39	6112 - Lowland Aspen	Sapling Well	4.3	32	Immature	SCA - deer yard-deer yard considerations.
41	4116 - Mixed N. Hardwood - Aspen	Sapling Well	25.1	20	51-80	SCA - deer yard-deer yard considerations. Stand was picked through and edge widened out back in the mid 80's. There is a good mix of spruce, aspen, red maple, hard maple, fir and cherry coming in. There are also scattered 1/10 acre openings mixed in.
42	4110 - Sugar Maple Association	Sawtimber Well	4.9	80	51-80	SCA - deer yard-deer yard considerations [11-04-10] Stand is now under contract TS# 41-030-09-01 185 Hardwoods. Sale is closed (it was cut in winter of 2010-11 by Spencer FP) TCR date 7/14/14(RH7/31/14)
43	6120 - Lowland Cedar	Poletimber Well	3.6	107	141-170	SCA - deer yard-deer yard considerations.
44	42320 - Upland Spruce	Poletimber Well	13.0	37	81-110	SCA - deer yard-deer yard considerations. Good mix of conifers spruce and fir. The hardwood was removed by inmates about 20 years ago. Stand is upland but has potential to have wet ground in spring and early summer.
45	4112 - Maple, Beech, Cherry Association	Poletimber Poor	3.8	35	51-80	SCA - deer yard-deer yard considerations. Area treated with inmates within past 20 years. There are some patches of open grass but the brush is filling in.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.7	35	81-110	SCA - deer yard-deer yard considerations. Area treated with inmates within past 20 years. There are some patches of open, grass but the brush is filling in.
47	4112 - Maple, Beech, Cherry Association	Sapling Well	1.6	19	81-110	SCA - deer yard-deer yard considerations.
48	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.4	45	81-110	SCA - deer yard-deer yard considerations. Poor quality wood.
49	4112 - Maple, Beech, Cherry Association	Sapling Well	2.8	25	81-110	SCA - deer yard-deer yard considerations.
50	6120 - Lowland Cedar	Sawtimber Well	2.8	116	111-140	SCA - deer yard-deer yard considerations. Creek bottom- 6-10' wide during runoff, shallow.
51	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.7	87	81-110	SCA - deer yard-deer yard considerations. [2-11-11] Stand is now under contract TS 41-003-10-01 Percy Rd hardwood. Residual BA: mixed hardwood = 82.5 sq.ft./acre. [3-5-13] Sale is now completed TCR dtd 11-28-12.
52	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.4	87	111-140	SCA - deer yard-deer yard considerations. Access is through PVT to avoid drain/creek area.
53	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.1	76	51-80	SCA - deer yard-deer yard considerations. Access is through PVT [3-5-13] Stand was select cut under TS 41-003-10-01, TCR dtd 11-28-12.
54	6120 - Lowland Cedar	Poletimber Well	7.3	107	141-170	SCA - deer yard-deer yard considerations.
55	42340 - Upland Spruce/Fir	Poletimber Well	7.2	70	111-140	SCA - deer yard-deer yard considerations.
57	6120 - Lowland Cedar	Poletimber Well	67.5	107	111-140	SCA - deer yard-deer yard considerations. Area has slight elevation changes. This makes that stand change from red maple, yellow birch not doing too well, to cedar, spruce and black ash doing okay.
58	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	12.6	78	111-140	The stand has patchy BA - some areas have more dense than others.
61	6118 - Lowland Deciduous with Cedar	Poletimber Well	2.5	35	81-110	SCA - deer yard-deer yard considerations.
62	6112 - Lowland Aspen	Poletimber Well	8.1	24	141-170	SCA - deer yard-deer yard considerations. There is a drain/creek that runs through the stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
5	6223 - Inundated Shrub Swamp	6.8	No	SCA - deer yard-deer yard considerations. Humphrey Pond. Pond level changes regularly.
18	500 - Water	2.3	No	SCA - deer yard-deer yard considerations. Humphrey Pond. Pond level changes regularly.
29	122 - Road/Parking Lot	0.9	No	Percy Rd ROW
37	6229 - Mixed lowland shrub	13.8	No	SCA - deer yard-deer yard considerations. Low area with Prairie Ck running through it. The area to the north has some cedar, bog birch in the stand, but is mainly tag alder.
40	122 - Road/Parking Lot	1.5	No	H-15 ROW
59	710 - Sand, Soil	4.5	No	Gravel/Barrow pit
60	6229 - Mixed lowland shrub	16.1	No	SCA - deer yard-deer yard considerations. Pond was created due to beaver activity from the surrounding cuts.
400	31021 - Cool Season Grass	51.0	Yes	<p>SCA - deer yard-deer yard considerations. Scheduled for a burn. Former stand # is 23 - FTP # w41-752. burned spring 1998. WL would like this burned again. Camp 3 Openings. Stand to be treated to maintain wildlife opening, use inmates.</p> <p>[4-15-10] Kevin sent a note to Dan Kennedy asking this to be removed from the WLD burn list.</p> <p>[6-14-10] Received a completion Kevin Swanson, WLD biologist. Most encroaching trees within the opening have been removed other than large red oak that were planted last year. Next step is to disk the opening twice in August and then plant with a perennial mix after fertilizing.</p> <p>[6-14-10] WLD is submitting a change of OI to disk and plant this opening. The opening maintenance has been completed, but the planting and fertilizing will require a change of OI. A FTP (W41-1460) is being circulated for approval. The proposed change is, "DISK, FERTILIZE AND PLANT GRASSES AND LEGUMES TO BENEFIT FOREST WILDLIFE, ESPECIALLY DEER. AMEND SOIL CONDITIONS AS APPROPRIATE, FOLLOWED BY PERENNIAL FORAGE PLANTING. ONLY NATIVE OR NATURALIZED GRASSES WILL BE USED." Cult codes have been changed from 2-1-1 to 1-6-1 to reflect the proposed change of OI.</p> <p>[6-17-10] FTP/OI change has been approved.</p> <p>[9/25/2010] Received partial completion report. Treated about 40 acres with a cost at about \$239.50 per acre. Needs a regen check in one year. his stand has been mowed with a brush hog as a part of opening maintenance at a cost of 548.12. FTP will be kept open to allow continued habitat work. (3/10/14RH) 210 apple trees were planted in the spring of 2014 under FTP #w41-1460 at a cost of \$3811.50. (7/30/14 RH)</p>