



# Compartment Review Presentation

## Shingleton Forest Management Unit

Compartment 41193

Entry Year 2020

Acreage: 1,286

County Alger

Management Area: Cusino Complex

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**Revision Date:** 2018-07-16

**Stand Examiner:** Scott Kentner

### Legal Description:

T46N R17W Sections 21, 22, 27 & 28

### Identified Planning Goals:

To manage the compartment in accordance with the principles of sustainable forest eco-system management, with emphasis on timber production, maintaining & enhancing wildlife habitat, and protection of riparian areas.

### Soil and topography:

Overall the topography is flat to gently rolling. Soil drainage is moderate to slow, but significantly better with slight increases in elevation. Areas north of the powerline, and those south of it in the eastern portion of the compartment, are generally low & very wet. Areas south of the powerline to the center and western side of the compartment tend to be somewhat dryer, but are still affected by seasonal weather factors.

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

Electric power transmission lines run east-west through the center of sections 27 & 28 on a right-of-way across state land, and the highway M-28 right-of-way crosses the south end of the compartment. There are no private parcels or other developments within this area.

### Unique Natural Features:

### Archeological, Historical, and Cultural Features:

### Special Management Designations or Considerations:

This compartment is in the Petrel Deeryard. All stand treatments should be scheduled with this consideration in mind and coordinated with those in other compartments in the deeryard.

### Watershed and Fisheries Considerations:

The northern and eastern regions of this compartment border Prairie Creek. Prairie Creek is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for Prairie Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

### Wildlife Habitat Considerations:

Compartment 193 is located one mile east of Shingleton in the Grand Marais Sandy End Moraine and Outwash ecological subsubsection. Prairie Creek forms the eastern boundary, while M-28 forms the southern boundary. During the 1980's the southern portion of this compartment was clearcut to allow for the continued use by openland species such as sharp-tailed grouse. Some regeneration of aspen and spruce has occurred since then. Further north, the compartment is dominated by marsh and scrub/shrub to the east near Prairie Creek, and lowland conifers with some mixed lowland deciduous elsewhere. Wildlife management objectives include maintaining mature lowland conifer and super-canopy white pine, providing some early successional young conifer habitat, and maintaining the riverine and floodplain habitat through buffers along the Prairie Creek. Harvesting should be done so as to avoid drawing deer from normal wintering areas in the Petrel deer yard.

### Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand & gravel and postglacial alluvium and peat & muck. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River Group and Prairie du Chien (PdC) Formation

subcrop below the glacial drift. The Black River is quarried for dolostone in the UP and the PdC could be used for stone. There is a gravel pit in Section 23 and potential appears to be good on the uplands. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

Access to areas north of the powerline is limited by the wet terrain. The powerline right-of-way itself can be reached from the west, where two-track roads through the neighboring compartments connect to it. South of the powerline, a network of two-track roads traverses much of the area and is accessible from M-28. These roads can be accessed via a forest road crossing the ditches along the north side of M-28 in the SWSW of Section 27.

**Survey Needs:**

NA

**Recreational Facilities and Opportunities:**

There are no developed facilities in this compartment at this time. The area is locally popular for hunting and fishing.

**Fire Protection:**

Conifers and non-stocked wetlands are the dominant fuel types in this compartment. Access issues north of the powerline could make fire suppression extremely difficult.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

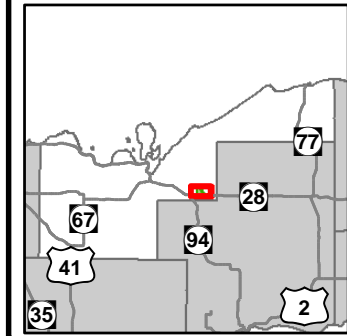
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

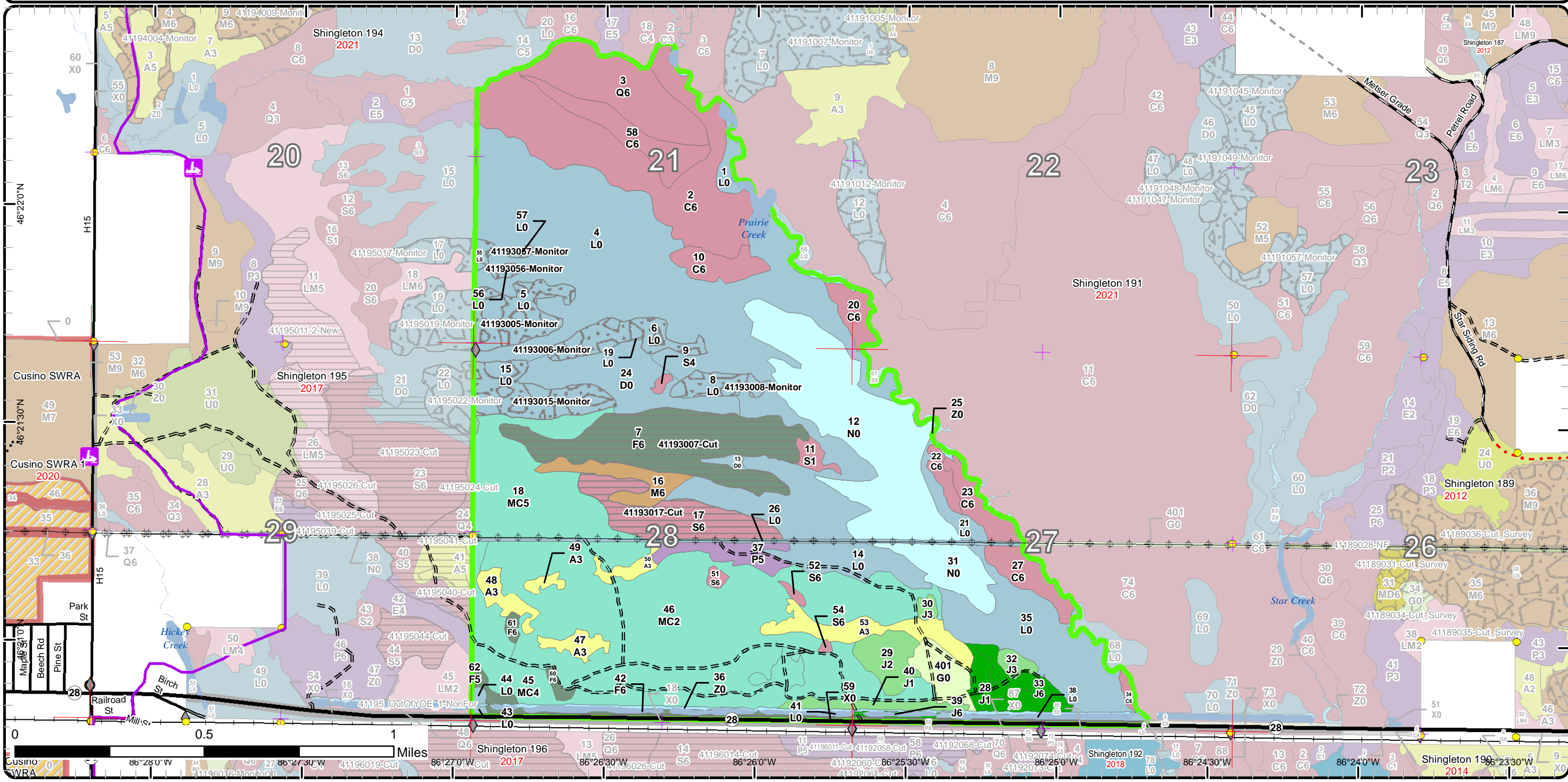
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 193  
 T46N, R17W, Sec: 21, 22, 27, 28  
 County: Alger  
 Unit: Shingleton  
 Mgmt Area: Casino Complex  
 YOE: 2020  
 Acres: 1,286 GIS Calculated  
 Examiner: Scott Kentner  
 Map Revised: 12/17/2018  
 Map Phase: Post Review



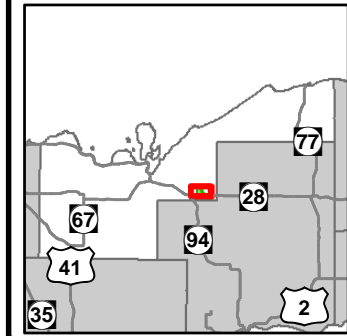
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- City
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Regeneration Survey
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines



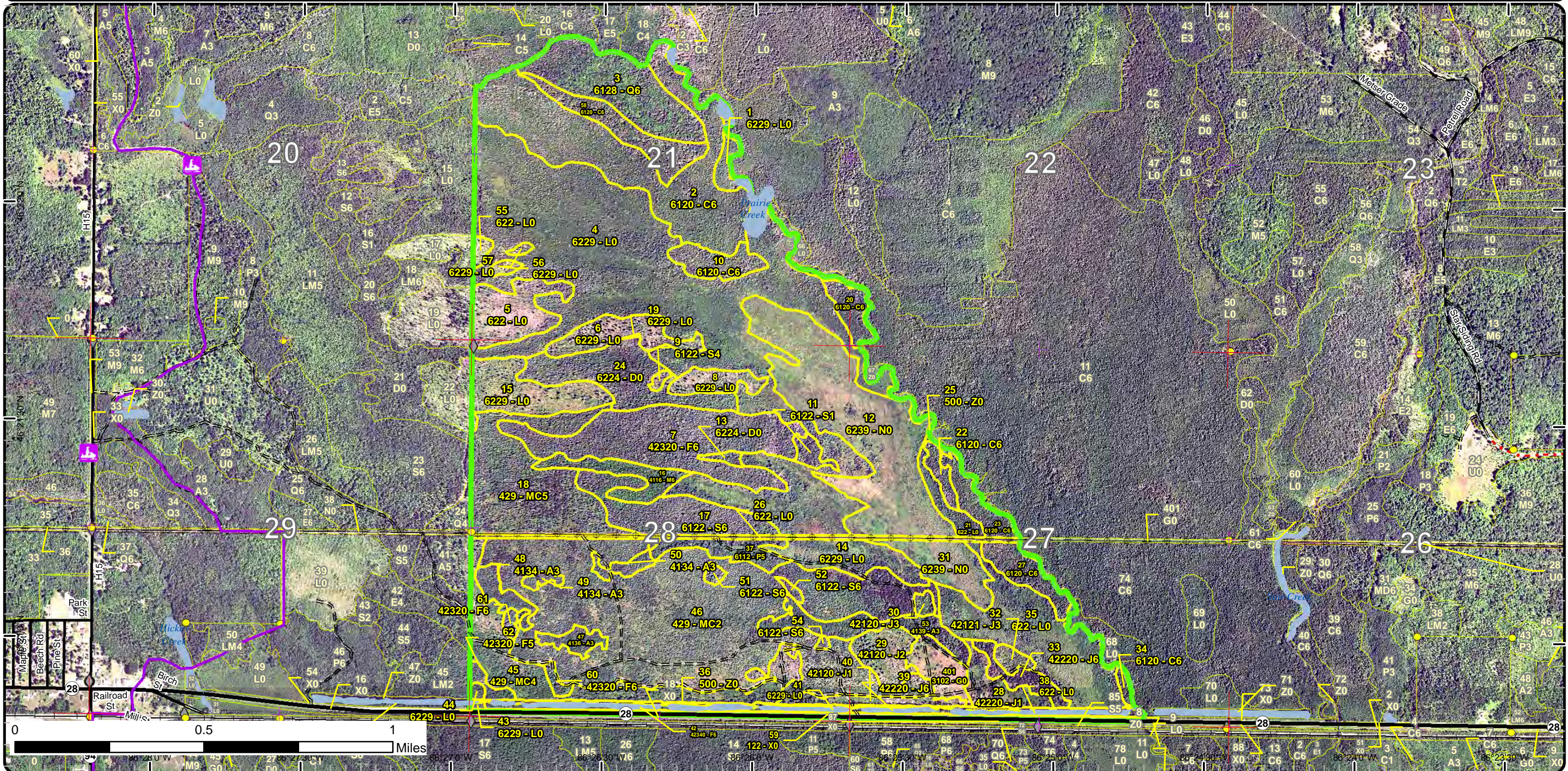


# Stand Boundary Map

Compartment: 193  
 T46N, R17W, Sec: 21, 22, 27, 28  
 County: Alger  
 Unit: Shingleton  
 Mgmt Area: Casino Complex  
 YOE: 2020  
 Acres: 1,286 GIS Calculated  
 Examiner: Scott Kentner  
 Map Revised: 12/17/2018  
 Map Phase: Post Review



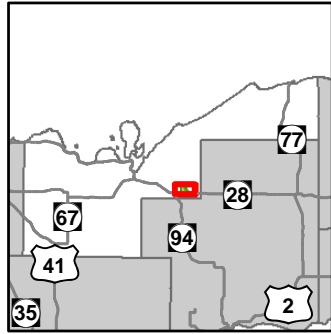
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
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- 422 - Natural Pines



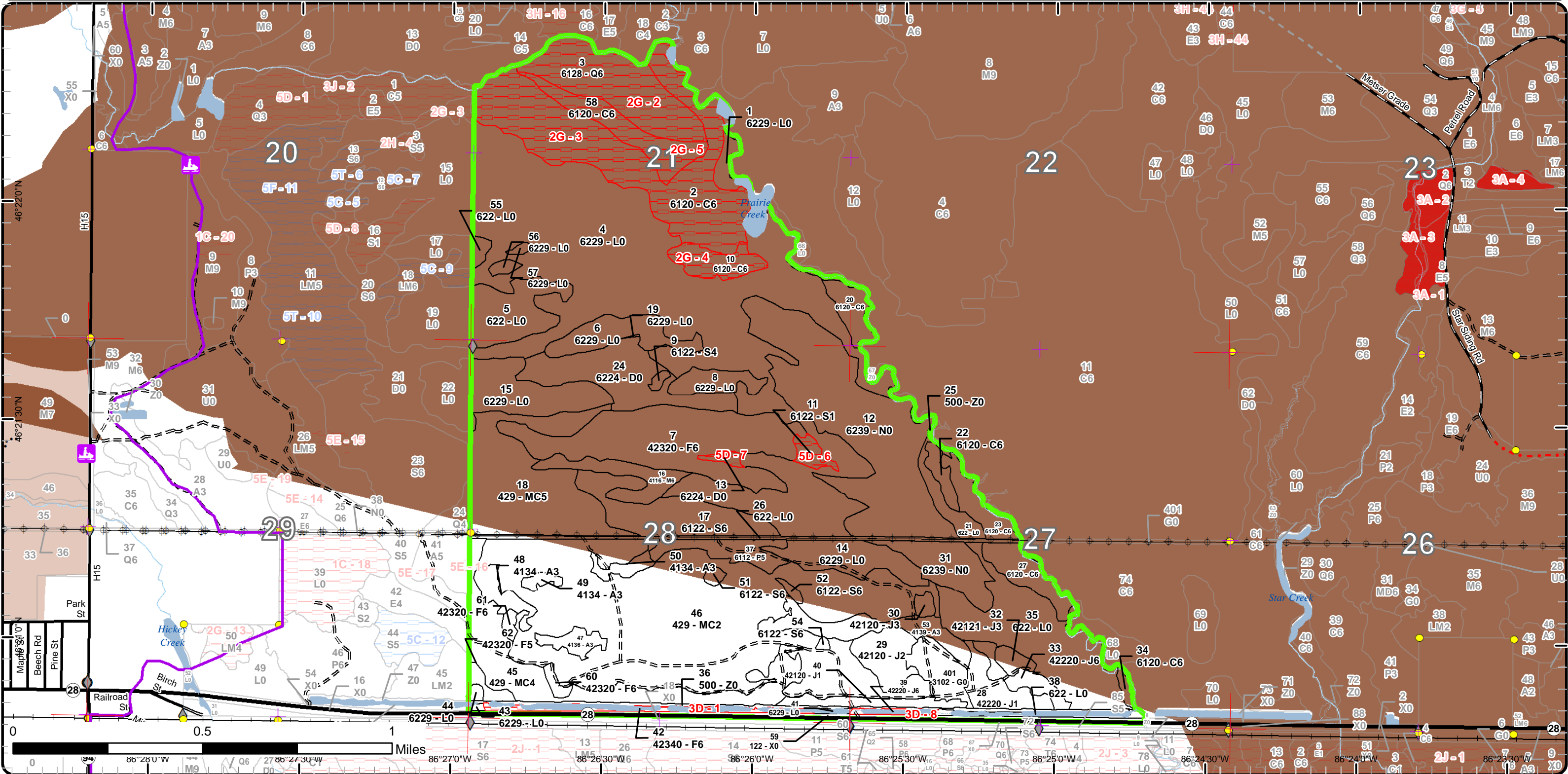


# Special Conservation Areas & Site Conditions Map

Compartment: 193  
 T46N, R17W, Sec: 21, 22, 27, 28  
 County: Alger  
 Unit: Shingleton  
 Mgmt Area: Casino Complex  
 YOE: 2020  
 Acres: 1,286 GIS Calculated  
 Examiner: Scott Kentner  
 Map Revised: 12/17/2018  
 Map Phase: Post Review



- Miris Corners
  - + Remonumented Section Corners
  - Survey Grade Corners
  - ◆ Field Grade Corners
  - Counties
  - DNR - Primary Forest Road
  - DNR - Secondary Forest Road
  - DNR - Forest Access Route
  - Federal / State Highway
  - Federal / State / County - Paved Road
  - Federal / State - Dirt / Gravel Road
  - County - Gravel Road
  - Private - Dirt / Gravel Road
  - Active Railroads
  - Snowmobile Trails
  - Designated Snowmobile Trails
  - City
  - Intermittent Stream
  - Lake/Pond
  - Perennial River
  - Lakes and Rivers All
  - ⊕ Powerline
  - Compartment Boundary
  - Unavailable
  - Stand Boundaries
  - Ecological Reference Areas
  - Cold Water Streams
  - Cold Water Lakes
  - Deer Winter Range
  - Wildlife Research Areas
- 2G: Too wet (sensitive soils, does not include access issues)  
 3D: Recreational / Scenic values  
 5D: Unproductive Forest Land



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Cedar	0	0	0	0	0	0	0	0	0	82	0	0	0	62	0	0	0	0	144
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Jack Pine	0	8	18	0	8	0	0	0	0	2	0	0	0	0	0	0	0	11	46
Lowland Aspen/Balsam Poplar	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	38
Lowland Shrub	410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	410
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	1	0	32	0	0	0	0	0	0	4	37
Marsh	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104
Northern Hardwood	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Treed Bog	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Upland Conifers	0	0	0	42	201	0	0	56	0	0	0	0	0	0	0	0	0	0	299
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	15	61	0	0	0	0	0	0	0	76
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
<b>Total</b>	<b>589</b>	<b>8</b>	<b>18</b>	<b>42</b>	<b>243</b>	<b>11</b>	<b>0</b>	<b>68</b>	<b>1</b>	<b>99</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>1286</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2020

Acres of Harvest

Compartment 193  
Total Compartment Acres: 1,286

Commercial Harvest - 90  
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
Lowland Spruce/Fir	28	0	0	0	0	0	0	0	0	28
Upland Spruce/Fir	61	0	0	0	0	0	0	0	0	61
<b>Total</b>	<b>90</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	90	0	0	0	0	0	73	0	0	162
Next Step	0	0	0	0	0	0	90	0	0	90
<b>Total</b>	<b>90</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>162</b>	<b>0</b>	<b>0</b>	<b>252</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
5	41193005-Monitor	20.8	622 - Lowland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**Prescription Monitor for regenSpecs:Next StepTreatments:Acceptable Lowland coniferRegen:OtherComment:Proposed Start Date: 10/1 /2027

6	41193006-Monitor	15.4	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Monitor for regenSpecs:Next StepTreatments:Acceptable Lowland coniferRegen:OtherComment:Proposed Start Date: 10/1 /2027

7	41193007-Cut	61.4	42320 - Upland Spruce	Poetimber Well	92	111-140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Cut all trees within stand. Do not cut cedar or Hemlock where present. Retention should be left in a thin strip along the edge of the stand.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Black spruce, Jack Pine, Balsam Fir, Red Maple, Aspen, Tamrack, white pineRegen:OtherComment:Proposed Start Date: 10/1 /2019

8	41193008-Monitor	8.4	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Monitor for regenSpecs:Next StepTreatments:Acceptable Lowland coniferRegen:OtherComment:Proposed Start Date: 10/1 /2027





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	41193015- Monitor	23.7	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Monitor for regen											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Lowland conifer											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2027											
17	41193017-Cut	28.4	6122 - Black Spruce Well	Poetimber	92	111- 140	Harvest	Clearcut with Retention	6124 - Lowland Spruce-Fir	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all trees within stand. Do not cut cedar or Hemlock where present. Retention should be left in pocket.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Black spruce, Balsam fir, jack pine, White pine, red Maple, Aspen, Tamarack, cedar, hemlock.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
55	41193055- Monitor	1.9	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Monitor for regen											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Lowland conifer											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2027											
56	41193056- Monitor	1.5	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	6122 - Black Spruce	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> re inventory check.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> any species that was on site before harvest.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2027											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
57 41193057-Monitor	0.8	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	6122 - Black Spruce	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription do a natural regen check during next inventory.

Specs:

Next Step

Treatments:

Acceptable any species on site before harvest

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2027

**Total Treatment  
Acreage Proposed: 162.3**



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Scott Kentner : Examiner

Compartment: 193  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		2G	3D	5D
34	34	0	0	Aspen			
144	34	0	111	Cedar	111		
11	11	0	0	Herbaceous Openland			
46	44	0	2	Jack Pine		2	
11	11	0	0	Lowland Aspen/Balsam Poplar			
38	0	0	38	Lowland Conifers	38		
410	410	0	0	Lowland Shrub			
36	33	0	4	Lowland Spruce/Fir			4
104	104	0	0	Marsh			
12	12	0	0	Northern Hardwood			
33	31	0	2	Treed Bog			2
298	298	0	0	Upland Conifers			
76	68	0	8	Upland Spruce/Fir		8	
13	13	0	0	Urban			
17	17	0	0	Water			
1,284	1,120		164	Total Forested Acres	149	10	5
	87%		13%	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	3D: Recreational / Scenic values	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

Shingleton Mgt. Unit  
 Scott Kentner : Examiner

Compartment: 193  
 Year of Entry: 2020

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5D: Unproductive Forest Land	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5D: Unproductive Forest Land	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3D: Recreational / Scenic values	2	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

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**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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	Poletimber Well	82.2	80	141-170	
3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	38.4	120	111-140	
7	42320 - Upland Spruce	Poletimber Well	61.4	92	111-140	
9	6122 - Black Spruce	Poletimber Poor	1.1	72	1-50	[2-11-11] Stand is now under contract TS 41-009-10-01 KMA Spruce. Residual BA: white pine = 9 sq.ft./acre. TCR 2015
10	6120 - Lowland Cedar	Poletimber Well	10.4	120	111-140	Poor access - too wet
11	6122 - Black Spruce	Sapling Poor	3.6	80	1-50	Submerchantable conifers etc. on wet, marshy ground. A few trees have reached merchantable size, but the site index is very low.
16	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	12.3	68	81-110	
17	6122 - Black Spruce	Poletimber Well	28.4	92	111-140	
18	429 - Mixed Upland Conifers	Poletimber Medium	55.8	63	51-80	
20	6120 - Lowland Cedar	Poletimber Well	7.7	121	111-140	Cedar near Prairie Creek - Maintain for stream cover.
22	6120 - Lowland Cedar	Poletimber Well	4.2	120	111-140	Cedar near Prairie Creek - Maintain for stream cover.
23	6120 - Lowland Cedar	Poletimber Well	9.1	120	141-170	
27	6120 - Lowland Cedar	Poletimber Well	11.1	121	141-170	LEAVE AS STREAM COVER, dog hair thick
28	42220 - Natural Jack Pine	Sapling Poor	11.1	21	1-50	Stand was partially panted with wild calla summer 2014 according to ftp W41-1606. in-even aged natural Jack pine filling in an opening. Canopy closure is right at 25%.
29	42120 - Planted Jack Pine	Sapling Medium	12.5	15	Immature	Scarified in 2003 then 425 JP/acre planted 5/9/07 under C41-961, where aspen has not regenerated.. Schedule survival check in 2008. [5/22/08 jb] Counts are good. Close FTP.
30	42120 - Planted Jack Pine	Sapling Well	1.9	15	Immature	Scarified in 2003 then 425 JP/acre planted 5/9/07 under C41-961, where aspen has not regenerated.. Schedule survival check in 2008. [5/22/08 jb] Counts are good. Close FTP.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	3.3	15	Immature	Scarified in 2003 then 425 JP/acre planted 5/9/07 under C41-961, where aspen has not regenerated.. Schedule survival check in 2008. If the JP are surviving this will be a mixed stand of aspen /jack pine. [5/22/08 jb] Counts are good. Close FTP.
33	42220 - Natural Jack Pine	Poletimber Well	7.5	38	81-110	
34	6120 - Lowland Cedar	Poletimber Well	1.6	121	81-110	Cedar along Prairie Creek and near Highway M-28. Retain for stream cover & aesthetics.
37	6112 - Lowland Aspen	Poletimber Medium	10.6	44	1-50	
39	42220 - Natural Jack Pine	Poletimber Well	2.0	89	51-80	windbreak along the highway.
40	42120 - Planted Jack Pine	Sapling Poor	7.5	8	Immature	OPIC - FMD: Cut and regenerate to jack pine. See also FTP# W41-1296 - Scotch Pine Removal [2-11-11] Stand is now under contract TS 41-009-10-01 KMA Spruce. Residual BA: white pine = 9 sq.ft./acre. FTP c41-1453 Jack Pine regen. Area was scarified in 2012 by DNR at a cost of \$1820.00. stocked with JP.
42	42340 - Upland Spruce/Fir	Poletimber Well	8.0	84	81-110	Strip of timber between the flooded ditches and the highway R.O.W. a few scattered scotch pine.
45	429 - Mixed Upland Conifers	Poletimber Poor	41.7	25	1-50	[2-11-11] Stand is now under contract TS 41-009-10-01 KMA Spruce. Residual BA: cedar = 1; white pine = 7; red pine = 1; total = 9 sq.ft./acre. Note: paper birch and hemlock (less than 1 sq.ft./acre of each) are also present in this stand and are reserved. TCR: 2015
46	429 - Mixed Upland Conifers	Sapling Medium	200.8	32	Immature	Regenerated in 1986, resulting in a semi-open stand of mixed regeneration - spruce, jack pine, aspen, tamarack & white pine are all present. Stocking levels and composition are highly variable from site to site within the stand; as a result different species are likely to become dominant in time, but for now mapping out separate stands would be difficult. Pockets of open grassland are also included.
47	4136 - Aspen, Mixed Conifer	Sapling Well	5.0	32	Immature	
48	4134 - Aspen, Spruce/Fir	Sapling Well	6.5	32	Immature	
49	4134 - Aspen, Spruce/Fir	Sapling Well	2.2	32	Immature	One strip of Jack pine.
50	4134 - Aspen, Spruce/Fir	Sapling Well	4.1	32	Immature	
51	6122 - Black Spruce	Poletimber Well	1.4	92	111-140	

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## Shingleton Mgt. Unit

## Report 7 – Forested Stands

Compartment: 193  
Year of Entry: 2020

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>52</b>	6122 - Black Spruce	Poletimber Well	1.1	92	81-110	
<b>53</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	16.5	32	Immature	
<b>54</b>	6122 - Black Spruce	Poletimber Well	0.6	92	81-110	
<b>58</b>	6120 - Lowland Cedar	Poletimber Well	17.9	120	111-140	Well-stocked cedar on gently rolling terrain, but soft ground & numerous drainage channels make operability questionable.
<b>60</b>	42320 - Upland Spruce	Poletimber Well	2.0	84	81-110	
<b>61</b>	42320 - Upland Spruce	Poletimber Well	1.6	84	81-110	
<b>62</b>	42320 - Upland Spruce	Poletimber Medium	3.0	84	81-110	





Stand	Cover Type	Acres	Managed Site	General Comments:
1	6229 - Mixed lowland shrub	4.2	No	Low, wet area near Prairie Creek featuring marsh/lowland brush and scattered trees
4	6229 - Mixed lowland shrub	242.9	No	Poorly-drained lowland areas featuring a mix of lowland brush, submerchantable trees and open marsh. Although small pockets of merchantable timber are present, site indices are generally low and access is impractical.
5	622 - Lowland Shrub	20.8		Site index varies with minor changes in elevation. Age class diversity appears to be present. Reserve the red & white pine, paper birch, and any hemlock & cedar encountered in the stand. [2-11-11] Stand is now under contract TS 41-009-10-01 KMA Spruce. Residual BA: paper birch = 4; cedar = 2; white pine = 9; hemlock = 2; total = 17 sq.ft./acre. Note: Red pine (less than 1 sq.ft./acre) is also present in this stand and is reserved. TCR 8/10/15
6	6229 - Mixed lowland shrub	15.4		Site index varies with minor changes in elevation. Age class diversity appears to be present. Reserve the red & white pine, paper birch, and any hemlock & cedar encountered in the stand. [2-11-11] Stand is now under contract TS 41-009-10-01 KMA Spruce. Residual BA: paper birch = 2; cedar = 8; white pine = 9; total = 19 sq.ft./acre. TCR 8/10/15
8	6229 - Mixed lowland shrub	8.4		Reserve the white pine plus any red pine, paper birch, hemlock & cedar encountered in the stand. [2-11-11] Stand is now under contract TS 41-009-10-01 KMA Spruce. Residual BA: white pine = 9 sq.ft./acre. TCR 8/10/15
12	6239 - Mixed Emergent Wetland	87.0	No	Open marsh with pockets of lowland brush, especially near timber and along Prairie Creek. Scattered trees are also present in the brush areas.
13	6224 - Treed Bog	1.6	No	Submerchantable conifers etc. on wet, marshy ground. A few trees have reached merchantable size, but the site index is very low.
14	6229 - Mixed lowland shrub	17.8	No	Lowland brush w/scattered trees and pockets of wet, open marshland also present.
15	6229 - Mixed lowland shrub	24.0		Site index varies with minor changes in elevation. Age class diversity appears to be present. Reserve the red & white pine, paper birch, and any hemlock & cedar encountered in the stand. [2-11-11] Stand is now under contract TS 41-009-10-01 KMA Spruce. Residual BA: paper birch = 2; cedar = 3; white pine = 9; total = 14 sq.ft./acre. TCR 8/10/15.
19	6229 - Mixed lowland shrub	0.1	No	Poorly-drained lowland areas featuring a mix of lowland brush, submerchantable trees and open marsh. Although small pockets of merchantable timber are present, site indices are generally low and access is impractical.
21	622 - Lowland Shrub	6.6	No	Lowland brush
24	6224 - Treed Bog	31.5	No	Poorly-drained lowland areas featuring a mix of lowland brush, submerchantable trees and open marsh. Although small pockets of merchantable timber are present, site indices are generally low and access is impractical.



Stand	Cover Type	Acres	Managed Site	General Comments:
25	500 - Water	9.7	No	PRAIRIE CREEK
26	622 - Lowland Shrub	8.6	Yes	POWERLINE RIGHT-OF WAY
31	6239 - Mixed Emergent Wetland	17.0	No	Marsh with pockets of lowland brush
35	622 - Lowland Shrub	50.7	No	Sparse brush w/pockets of open grass/marshland also present. Seasonally wet, but has a tendency to dry out more than the denser lowland brush type to the east (closer to the creek.)  Stand was partially planted with wild calla summer 2014 according to ftp W41-1606.
36	500 - Water	8.6	No	Flooded ditch - borrow pit from construction of Highway M-28
38	622 - Lowland Shrub	4.0	No	Lowland brush etc. between the flooded ditch and the highway R.O.W.  Planted wild calla in 2014 according to ftp W41-1606.
41	6229 - Mixed lowland shrub	0.8	No	Lowland brush etc. between the flooded ditch and the highway R.O.W.
43	6229 - Mixed lowland shrub	0.5	No	Lowland brush etc. between the flooded ditch and the highway R.O.W.
44	6229 - Mixed lowland shrub	1.0	No	Lowland brush etc. along the flooded ditch
55	622 - Lowland Shrub	1.9		OPIC - FMD: Soils - Finch-Kinross complex, 0-3% slopes Habitat - TMC and PCS Slow-growing black spruce/tamarack approx. 1-3 sticks tall, with a spruce understory 3-4" DBH. Site index varies with minor changes in elevation. Lowland brush is scattered throughout the stand. Reserve any hemlock, white pine & cedar encountered in the stand. [2-11-11] Stand is now under contract TS 41-009-10-01 KMA Spruce. Residual BA: paper birch = 3; cedar = 19; white pine = 6; total = 28 sq.ft./acre. TCR 8/10/15
56	6229 - Mixed lowland shrub	1.5		Reserve any hemlock, white pine & cedar encountered in the stand. [2-11-11] Stand is now under contract TS 41-009-10-01 KMA Spruce. Residual BA: paper birch = 3; cedar = 19; white pine = 6; total = 28 sq.ft./acre. No regen yet beside red maple stump sprouts.
57	6229 - Mixed lowland shrub	0.8		Reserve any hemlock, white pine & cedar encountered in the stand. [2-11-11] Stand is now under contract TS 41-009-10-01 KMA Spruce. Residual BA: paper birch = 3; cedar = 19; white pine = 6; total = 28 sq.ft./acre. No regen yet, besides red maple stump sprouts.
59	122 - Road/Parking Lot	12.9	No	Highway M-28 R.O.W.





Stand	Cover Type	Acres	Managed Site	General Comments:
401	3102 - Grass	11.1	No	Grassy area with a few widely scattered jack pine etc. A sharptail lek is located within this stand.