



# Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45157

Entry Year 2019

Acreage: 1,836

County Mackinac

Management Area: Mackinac Mix

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**Revision Date:** 2017-08-03

**Stand Examiner:** Steve Touvila

**Legal Description:**

T44N-R8W Sections 27, 28 & 29; Hudson Township

**Identified Planning Goals:**

This compartment is located 1 mile north of Garnet along Borgstrom Road. While primarily a hardwood area, there are portions of aspen in varying age classes, and lowland swamp conifer types. Management activities include regular treatment of the hardwood stands to promote health and growth, while maintaining some closed canopy areas for nesting raptors. The aspen/mixed upland areas have a great age class distribution, with cuttings done over the past several decades. Cutting will continue this decade to enhance the age class diversity and maintain healthy forests.

**Soil and topography:**

The upland hardwoods vary from nearly level and undulating areas, to gently rolling and rolling areas, to rolling to steep areas. The major soil type here is Wallace sands, with areas of Springlake loamy coarse sand. The aspen and mixed upland areas are generally rolling to steep areas consisting of Battydoe, stony-Wallace complex. There are smaller portions of Longrie-Battydoe, stony, complex and Caffey-Ingalls-Iosco complex on the nearly level and undulating areas, and depressions and nearly level areas. The lowland swamp types are on depressions and nearly level areas of Markey-Spot-Finch complex; with low ridges, closed depressions and dunes of Finch-Dawson-Pullup complex. Bog areas are characterized by Dawson and Loxley peats on closed depressions.

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

The compartment is surrounded entirely by state lands. Two forties within the compartment are privately owned. The forty in section 27 is wholly owned and has a camp overlooking Turtle Lake. The forty in section 29 is broken into 3 parcels, all with cabins on them, primarily used during hunting season(s). Borgstrom Road was recently upgraded from a good county gravel road to an all season paved road. Therefore, more traffic is using this road and it gives us more opportunities for trucking access on timber sales.

**Unique Natural Features:**

Red-shouldered hawks have been found in the area. Stands scheduled for harvest will be checked for stick nests. Appropriate buffer zones will be established, and timing of harvest will be adjusted to minimize disturbance if nests are found. There is a potential for rare, threatened, or endangered plant and animal species within the compartment.

**Archeological, Historical, and Cultural Features:**

There is one archaeological site located within this compartment. There are no treatments proposed in this location this entry, so no concerns.

**Special Management Designations or Considerations:**

None noted.

**Watershed and Fisheries Considerations:**

This compartment contains Little Dollar Lake which is a 10 acre lake with an average depth of 8'. Little Dollar Lake is documented to hold few year-classes of Yellow Perch and often winterkills. Little Dollar Lake is of minimal management priority. This compartment also contains Bark Creek and unnamed headwaters which serve as tributaries to King's Marsh which are designated Type 1 trout streams less than 50' width. A 300' buffer is recommended for Bark Creek and tributaries to King's Marsh, in areas susceptible to Aspen regeneration. For all other riparian areas, Best Management Practices should be followed to reduce erosion into waterbodies.

**Wildlife Habitat Considerations:**

This compartment is part of the Mackinac Mix Management Area where featured wildlife species include black bear, pileated woodpecker, ruffed grouse, snowshoe hare, and white-tailed deer. It contains a mix of northern hardwoods, aspen, and lowlands. Most of the northern hardwoods are part of the Dollar Lake Dedicated Habitat Area (DHA), which is to be managed as upland deciduous forest interior core habitat for red-shouldered hawk, walking fern, and wood ducks.

Any red-shouldered hawk nesting areas and areas where walking fern is identified will be protected, and the DHA will be managed for the intended purpose. Other common stand types in the compartment include aspen, lowlands including cedar, and mixed stands. Aspen stands vary in age, providing habitat for a variety of species ranging from ruffed grouse to pileated woodpeckers and other birds. Hard and soft mast sources as well as the various stand types across this compartment provide habitat for black bear. Cherry and other mast producers will be encouraged during treatments to benefit bear and other wildlife.

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

Sand/gravel pits are located in the area including state pits currently leased to the county road commission in sections 20, 21, & 28. There may be additional sand and gravel potential within the compartment. Potential for high-purity (high-calcium) limestone within the compartment is very good. Much of the compartment is within the area acquired by Graymont to develop an underground limestone mine. The state does not own the limestone beneath most of the compartment. There is no current economic oil and gas production in the UP and there is no known metallic mineral potential in this region.

### **Vehicle Access:**

Access is good for the eastern 2/3 of the compartment. Borgstrom Road runs north-south between sections 28 and 29. Dollar Lake Road and Dollar Lake Truck Trail cross northerly-southerly through sections 27 and 28. Numerous two-tracks cross between Borgstrom Road and Dollar Lake Road; and between Dollar Lake Road and Dollar Lake Truck Trail; and off to the east. There is limited access to the west of Borgstrom Road. One two-track accesses the southern part of section 29, towards King's Marsh; and an old timber sale access road is located just north of the private property in section 29 that may be opened up again for timber sale access.

### **Survey Needs:**

The private 40 east of Borgstrom road will need to be investigated to see if the corners still exist. If they are missing a new survey may be needed.

### **Recreational Facilities and Opportunities:**

Snowmobile trail number 2 follows Dollar Lake Truck Trail through the compartment. The ORV trail winds through the hardwood stands. Other recreational opportunities include hunting all types of game species, bird watching, mushroom and berry picking, and photography.

### **Fire Protection:**

Potential for wildfires in this compartment is low. The hardwood and aspen uplands have a lower potential to carry a fire. The areas of heavier, lowland soils would be difficult to access if a wildfire were to occur, and may pose mop-up difficulties. There is pine located to the south of the compartment that could pose a risk of wildfire continuing north. Hudson Township Fire Hall is located 2 miles away.

### **Additional Compartment Information:**

None noted.

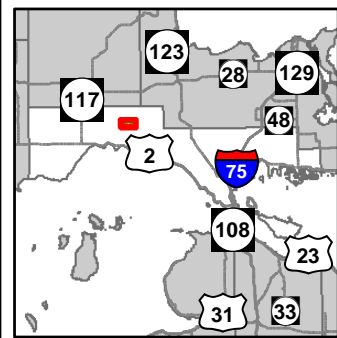
### **The following reports from the Inventory are attached:**

- 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:**

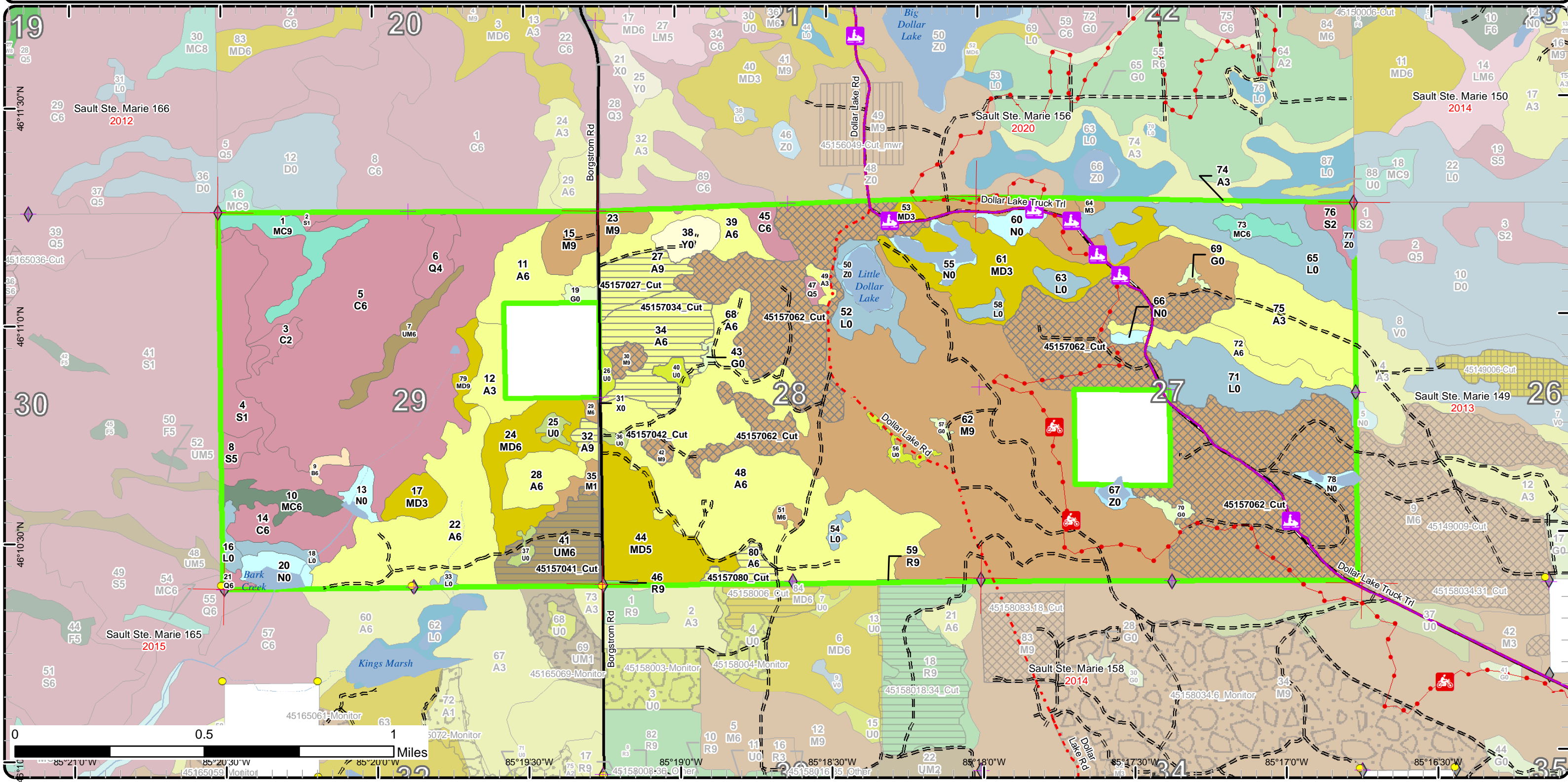
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map



Compartment: 157  
 T44N, R08W, Sec: 27-29  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Mackinac Mix  
 YOE: 2019  
 Acres: 1,836 GIS Calculated  
 Examiner: Steve Touvila  
 Map Revised: 7/30/2018  
 Map Phase: Post Review

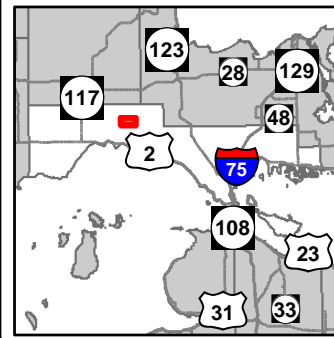
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- 🏍️ Motorcycle Trails (DNR License)
- 🏍️ Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil
- Lakes



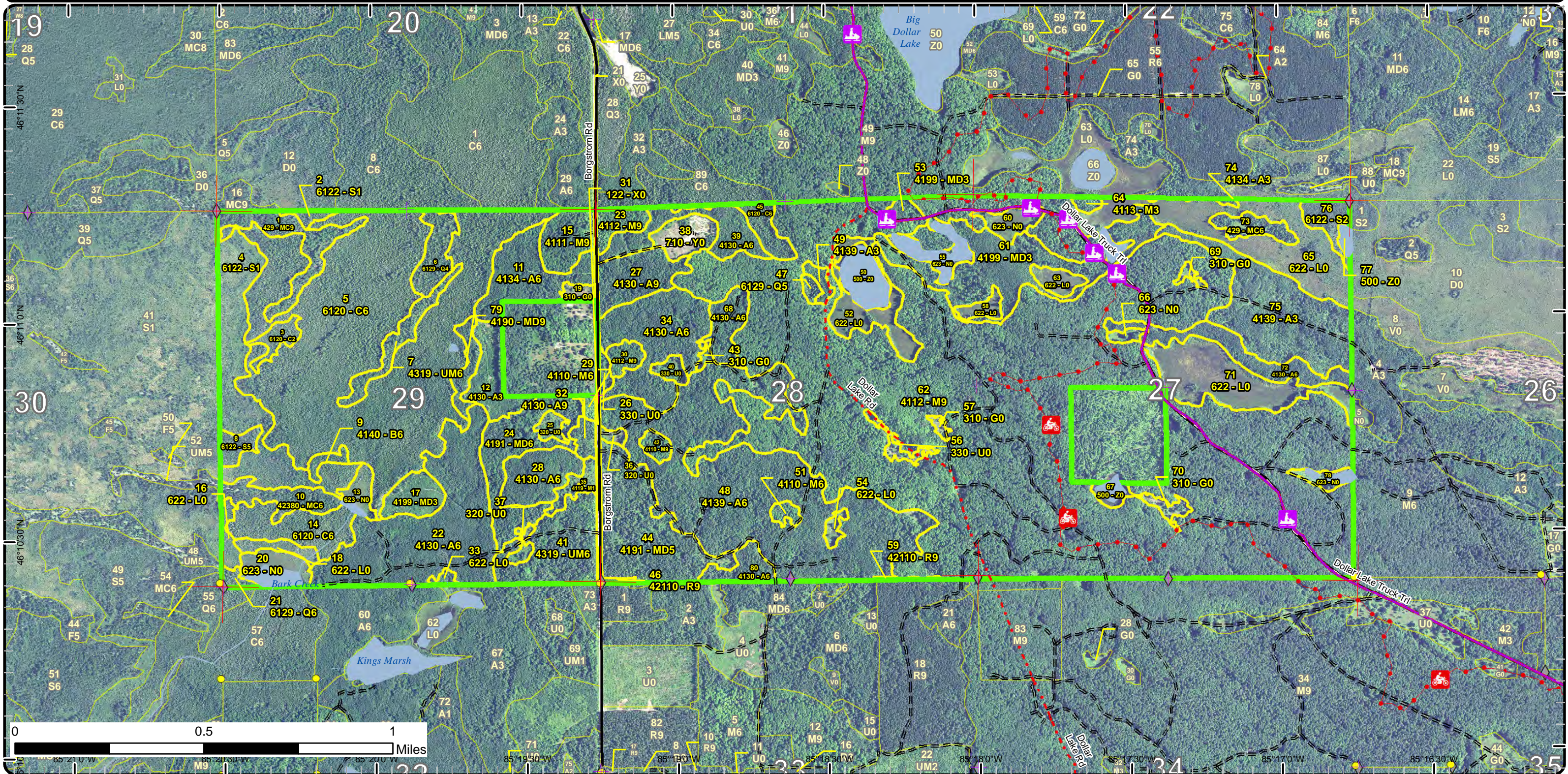


# Stand Boundary Map

Compartment: 157  
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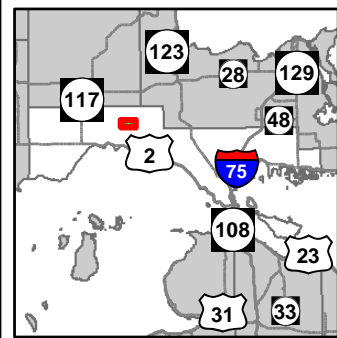
- Survey Grade Corners
  - ◆ Field Grade Corners
  - 🏍️ Motorcycle Trails (DNR License)
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  - ORV License & Trail Permit
  - - - Designated ORV Route
  - Designated Snowmobile Trails
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  - Stand Boundaries
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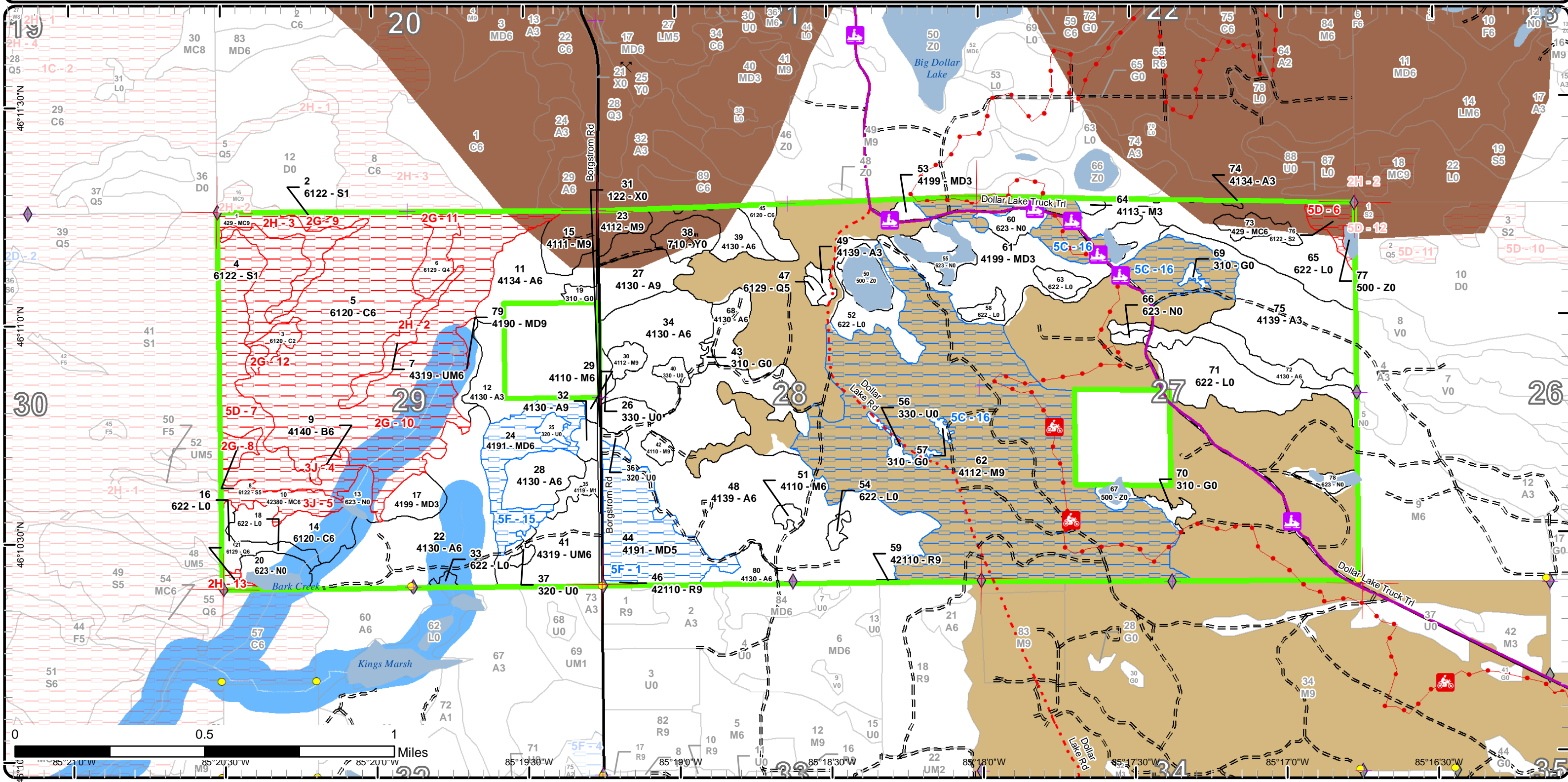


# Special Conservation Areas & Site Conditions Map

Compartment: 157  
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 YOE: 2019  
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 Examiner: Steve Touvila  
 Map Revised: 7/30/2018  
 Map Phase: Post Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
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- Federal / State / County - Paved Road
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- Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Sand or Gravel Pit



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	14	3	1	336	37	4	17	0	0	0	0	0	0	0	0	0	18	429
Cedar	0	0	0	0	0	0	5	0	0	0	0	20	0	219	0	0	0	0	244
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	0	2	10	2	0	0	0	0	0	0	0	14
Lowland Shrub	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	54	7	0	0	0	0	0	0	0	0	61
Marsh	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Mixed Upland Deciduous	0	10	0	51	43	0	28	0	0	0	0	0	0	6	0	0	0	0	137
Northern Hardwood	0	0	0	2	5	0	0	0	2	4	636	0	19	0	0	0	0	0	668
Paper Birch	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
Sand, Soil	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	0	0	7	12	0	0	0	0	0	0	16	0	0	35
Upland Mixed Forest	0	0	0	0	28	0	0	0	10	0	0	0	0	0	0	0	0	0	38
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
<b>Total</b>	<b>206</b>	<b>24</b>	<b>3</b>	<b>54</b>	<b>412</b>	<b>37</b>	<b>37</b>	<b>25</b>	<b>81</b>	<b>24</b>	<b>638</b>	<b>20</b>	<b>19</b>	<b>225</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>18</b>	<b>1837</b>



## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2019

Acres of Harvest

Compartment 157  
Total Compartment Acres: 1,836

Commercial Harvest - 407  
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
Aspen	64	0	0	0	0	0	0	0	0	64
Northern Hardwood	0	315	0	0	0	0	0	0	0	315
Upland Mixed Forest	28	0	0	0	0	0	0	0	0	28
<b>Total</b>	<b>92</b>	<b>315</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>407</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	407	0	0	0	0	0	0	0	0	407
Next Step	0	0	0	0	0	407	0	0	0	407
<b>Total</b>	<b>407</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>407</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>814</b>



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
27	45157027_Cut	16.5	4130 - Aspen	Sawtimber Well	65	111-140	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Cut all deciduous 2" and greater and all conifers 4" and greater. Don't cut black cherry and white pine and overall leave a representative healthy mature tree spaced every 75'. Mark some mature aspen as part of the red line to leave some budding trees.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.

Other  
Comment:

Proposed Start Date: 10/01/2018

30	45157030_Cut	4.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	89	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood if present and all junberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Maple, cherry, beech, yellow and paper birch, aspen, ironwood, balsam fir, white spruce, hemlock, and white pine.

Other  
Comment:

Proposed Start Date: 10/01/2018

32	45157032_Cut	2.4	4130 - Aspen	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft. Leave a buffer along the edge of depression. Actual treatment acres will reflect on the ground conditions.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Aspen, balsam poplar, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce and white pine.

Other  
Comment:

Proposed Start Date: 10/01/2018

34	45157034_Cut	37.1	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all deciduous 2" and greater and all conifers 4" and greater. Don't cut black cherry and white pine and overall leave a healthy representative mature tree spaced every 75'. Mark some mature aspen as part of the red line to leave some budding trees.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.

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
41	45157041_Cut	28.3	4319 - Mixed Upland Forest	Poletimber Well	39	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" and more. Leave a representative, healthy, mature tree spaced every 75'. Mark around 1-2 black cherry per acre as leave trees to be included in the overall 75' spacing retention.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.

Other Comment:

Proposed Start Date: 10/01/2018

42	45157042_Cut	3.1	4110 - Sugar Maple Association	Sawtimber Well	92	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with smooth bark and wildlife trees. Some ironwood and if present all junberry and conifer should be left. Some larger canopy gaps may be desirable around cherry if possible to regenerate this species and enhance the advanced regeneration present.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Maple, aspen, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, hemlock, and white pine.

Other Comment:

Proposed Start Date: 10/01/2018

62	45157062_Cut	307.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood if present and all junberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present. Open up the drip line of the hemlock if possible. The stand is part of the Dollar Lake DHA and will be managed as upland deciduous forest interior core habitat for red-shouldered hawk, walking fern, and wood ducks. Any treatment will result in 70% canopy closure or more. Follow red-shouldered hawk guidelines. Within 150 feet of these boulders, retain all conifers and a total BA of at least 100 square feet. In addition, no cutting should be done within 100 feet of the boulders. No trees should be felled directly onto the boulders. Buffer wetlands and leave snags and some large wolfy trees both near wetlands and throughout stand where present for cavity nesting.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Maple, cherry, beech, yellow and paper birch, aspen, ironwood, balsam fir, white spruce, hemlock, and white pine.

Other Comment: Snowmobile and ORV trails run through the treatment area so trail protection specs will need to be included. The area north of the private forty and mainly south of stand 66 has a good amount of large healthy black cherry to manage.

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
80	45157080_Cut	7.6	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all deciduous 2" and greater and all conifers 4" and greater. Leave a healthy representative mature tree spaced every 75'. Mark around 1-2 black cherry per acre as leave trees as part of the overall 75' spaced retention.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.

Other Comment: Cut with NW part of stand 6 in 45158 to the south.

Proposed Start Date: 10/01/2018

**Total Treatment Acreage Proposed: 407.1**



## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Steve Touvila : Examiner

Compartment: 157

Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available			5C	5F	2G	2H	3J	5D		
429	429	0	0		Aspen								
244	27	0	216		Cedar			216					
9	9	0	0		Herbaceous Openland								
8	8	0	0		Low-Density Trees								
14	2	0	13		Lowland Conifers			10	2				
117	117	0	0		Lowland Shrub								
61	0	0	61		Lowland Spruce/Fir			7					54
35	35	0	0		Marsh								
137	66	70	0		Mixed Upland Deciduous		70						
668	344	324	0		Northern Hardwood	324							
3	0	0	3		Paper Birch							3	
1	1	0	0		Red Pine								
9	9	0	0		Sand, Soil								
35	7	0	28		Upland Conifers				16	12			
38	28	0	10		Upland Mixed Forest				10				
7	7	0	0		Upland Shrub								
6	6	0	0		Urban								
15	15	0	0		Water								
1,836	1,111	395	330		Total Forested Acres	324	70	233	28	14			54
	61%	22%	18%		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	5F: Evaluated for Forest Health Considerations	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Steve Touvila : Examiner

Compartment: 157

Year of Entry: 2019

2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5D: Unproductive Forest Land	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5D: Unproductive Forest Land	47	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

**Report 4 – Site Conditions**

Sault Ste. Marie Mgt. Unit

Steve Touvila : Examiner

Compartment: 157

Year of Entry: 2019

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	212	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

Sault Ste. Marie Mgt. Unit

Steve Touvila : Examiner

Compartment: 157

Year of Entry: 2019

13	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	324	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
429 - Mixed Upland Conifers	Sawtimber Well	16.3	146	81-110	
6122 - Black Spruce	Sapling Poor	2.0	76	1-50	
6120 - Lowland Cedar	Sapling Medium	4.8	53	1-50	
6122 - Black Spruce	Sapling Poor	46.8	75	1-50	Treed bog. 4 - 40 feet tall.
6120 - Lowland Cedar	Poletimber Well	211.6	121	111-140	Large swamp type. Some pockets of cedar nicer than others. Small inclusions of black spruce along treed bog types. Some small upland inclusions.
6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	10.4	86	1-50	
4319 - Mixed Upland Forest	Poletimber Well	9.9	77	81-110	Upland ridge in middle of cedar swamp. Paper birch is healthy.
6122 - Black Spruce	Poletimber Medium	4.6	78	51-80	Black spruce with tamarack bog type.
4140 - Other Upland Deciduous	Poletimber Well	2.6	89	81-110	Small upland ridge in middle of large swamp. Paper birch is getting old but still mostly healthy and small diameter for age.
42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	11.5	76	81-110	Birch are dying back. Mostly upland ridges, with at least one cedar swale between ridges. Northwest edge is more semi-open before dropping off into treed bog.
4134 - Aspen, Spruce/Fir	Poletimber Well	23.7	36	51-80	Quite a mixed bag! Some areas heavier to aspen; some areas mix of all spp!
4130 - Aspen	Sapling Well	14.2	7	Immature	
6120 - Lowland Cedar	Poletimber Well	19.9	106	141-170	Canopy gets thinner in some places.
4111 - S.Maple, Hard Mast Association	Sawtimber Well	12.4	111	81-110	
4199 - Other Mixed Upland Deciduous	Sapling Well	9.6	6	Immature	Good regeneration in this stand. Small patch of cedar left.
6129 - Mixed Coniferous Lowland Forest	Poletimber Well	2.2	90	141-170	
4130 - Aspen	Poletimber Well	69.3	37	1-50	This stand consists of 3 cuts that took place in 1981, 1988 and 1991. Nice aspen regeneration.



Stand	Sault Ste. Marie Mgt. Unit		Report 7 – Forested Stands			Compartment: 157 Year of Entry: 2019	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.5	114	51-80		
24	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	27.5	59	51-80		
27	4130 - Aspen	Sawtimber Well	16.5	65	111-140	Notes say that this was cut commercially in 1965. Good quality well stocked stand with large diameter aspen. Cherry is healthy looking.	
28	4130 - Aspen	Poletimber Well	16.0	34	51-80		
29	4110 - Sugar Maple Association	Poletimber Well	1.4	96	51-80		
30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.4	89	111-140	Large diameter hardwood stand. Last thinned in 2004. Remaining beech had died off.	
32	4130 - Aspen	Sawtimber Well	3.7	56	81-110	Small aspen stand. Ground gradients down to near-vernal pond area in middle. Large depression area may need protection when harvesting, may be old barrow pit. Balsam fir sub-canopy is thick in north half of stand.	
34	4130 - Aspen	Poletimber Well	37.1	47	81-110		
35	4119 - Mixed Northern Hardwoods	Sapling Poor	4.7	31	Immature	Opening filling in. Grass to blueberry to bracken fern. Some rock at surface.	
39	4130 - Aspen	Poletimber Well	17.1	38	51-80		
41	4319 - Mixed Upland Forest	Poletimber Well	28.3	39	51-80	Scattered white pine and jack pine too (limby). Rocky; semi-open areas. Has been picked over thru the years (1993 was last cut). Good habitat. Lots of knee high to head high hawthorne.	
42	4110 - Sugar Maple Association	Sawtimber Well	3.1	92	81-110	Small hardwood patch. Thinned in 2004 - BlackWolf Hwd.	
44	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	43.0	36	51-80	Rocky. Has been picked over thru the years. Last time was in 1990. Mostly semi open areas, but some areas more clean cut than others. Lots of knee high to head high hawthorne. Very good habitat!	
45	6120 - Lowland Cedar	Poletimber Well	7.5	121	141-170		
46	42110 - Planted Red Pine	Sawtimber Well	0.7	69	111-140		
47	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	1.7	76	1-50		





Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4139 - Aspen, Mixed Deciduous	Poletimber Well	143.5	36	51-80	
4139 - Aspen, Mixed Deciduous	Sapling Well	2.6	16	Immature	
4110 - Sugar Maple Association	Poletimber Well	2.3	77	81-110	Small hardwood island in middle of aspen stand.
4199 - Other Mixed Upland Deciduous	Sapling Well	2.7	28	Immature	Small opening inclusion.
42110 - Planted Red Pine	Sawtimber Well	0.7	79	111-140	
4199 - Other Mixed Upland Deciduous	Sapling Well	47.8	28	1-50	
4112 - Maple, Beech, Cherry Association	Sawtimber Well	631.9	98	111-140	Basal area varies from 100-160. Approximately 1/2 of stand was thinned in 2010-2011 (Farmers Daughter Hardwood). There the basal area averages 90. Areas of small aspen pockets, and small inclusions of openings. Remaining beech is dying off. Thin the north edge of this stand (along compartment 45156 and the snowmobile trail) as the hardwood stand in that compartment should be prescribed in 2018 year of entry.
4113 - R.Maple, Conifer	Sapling Well	1.7	26	1-50	
4130 - Aspen	Poletimber Well	9.9	46	81-110	
4130 - Aspen	Poletimber Well	17.7	39	81-110	
429 - Mixed Upland Conifers	Poletimber Well	6.7	66	81-110	
4134 - Aspen, Spruce/Fir	Sapling Well	0.9	23	1-50	
4139 - Aspen, Mixed Deciduous	Sapling Well	49.1	34	Immature	
6122 - Black Spruce	Sapling Medium	7.2	82	1-50	Treed bog surrounding a bog pond.
4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	6.4	121	111-140	
4130 - Aspen	Poletimber Well	7.6	46	81-110	





Stand	Cover Type	Acres	Managed Site	General Comments:
13	623 - Emergent Wetland	5.0	No	
16	622 - Lowland Shrub	4.0	No	
18	622 - Lowland Shrub	4.4	No	
19	310 - Herbaceous Openland	2.5	No	
20	623 - Emergent Wetland	10.0	No	
25	320 - Upland Shrub	2.8	No	
26	330 - Low-Density Trees	2.0	No	
31	122 - Road/Parking Lot	5.7	No	
33	622 - Lowland Shrub	1.3	No	
36	320 - Upland Shrub	1.5	No	
37	320 - Upland Shrub	2.3	No	
38	710 - Sand, Soil	9.4	No	
40	330 - Low-Density Trees	3.0	No	
43	310 - Herbaceous Openland	1.3	No	
50	500 - Water	10.6	No	
52	622 - Lowland Shrub	15.2	No	
54	622 - Lowland Shrub	2.2	No	
55	623 - Emergent Wetland	8.5	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
56	330 - Low-Density Trees	3.1	No	
57	310 - Herbaceous Openland	1.1	No	
58	622 - Lowland Shrub	3.4	No	
60	623 - Emergent Wetland	6.2	No	
63	622 - Lowland Shrub	4.6	No	
65	622 - Lowland Shrub	47.8	No	
66	623 - Emergent Wetland	1.8	No	
67	500 - Water	3.3	No	
69	310 - Herbaceous Openland	1.3	No	
70	310 - Herbaceous Openland	3.0	No	
71	622 - Lowland Shrub	33.8	No	
77	500 - Water	1.3	No	
78	623 - Emergent Wetland	3.7	No	