



# Compartment Review Presentation

## Sault Ste. Marie Forest Management Unit

Compartment 45138

Entry Year 2018

Acreage: 1,918

County Mackinac

Management Area: Strickler Aspen

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**Revision Date:** 2016-08-10

**Stand Examiner:** Steve Touvila

**Legal Description:**

T43N, R7W, Sections 19, 20 & 21, Hendricks Township

**Identified Planning Goals:**

The compartment is located between Epoufette and Rexton along Sand Lake Road. The compartment has a wide variety of timber types with red pine, northern hardwoods, aspen/mixed upland deciduous and swamp conifer making up the majority. The red pine was originally planted in 1930, 1932, 1938 and 1940. Some of these original plantations have been clearcut and replanted back to red pine in 1994, 1995, 1998, 2001, and 2015. There are also portions that had been converted to aspen. Two red pine plantations will be clearcut and replanted to red pine this year of entry to enhance age class diversity. Three red pine stands will be thinned and three red pine stands will be left untreated this entry to maintain age class diversity. Three mixed stands are at risk of spruce budworm and they will be clearcut. Within these stands there will be retention including white pine to maintain diversity within these stands. White pine will be thinned in a portion of stand 18 to improve the quality of the white pine to be left. Buffers will be maintained along Davenport Creek where clearcuts are proposed. Age class diversity of the aspen stands will be maintained. None of the aspen stands are scheduled for treatment this year of entry, although within the mixed stands to be treated the aspen will be treated to enhance age class diversity. The hardwood stands need regular treatment to promote health and growth. Seven of these stands were thinned in the last ten years for this purpose and to salvage beech dieback from beech bark disease. None of these stands are scheduled for treatment for this year of entry.

**Soil and topography:**

The predominant soil type is Wallace sand. It covers the nearly level and undulating areas to the gently rolling and rolling areas of all upland cover types. A significant portion of the upland in the southwestern portion of section 20 consists of Springlake loamy coarse sand, occupying nearly level and undulating areas. Small transitional inclusions in the southern part of section 19 occupy depressions, nearly level and undulating areas and consist of Paquin sand and Paquin-Spot complex. Low cedar swamps on depressions and nearly level areas consist primarily by Markey and Carbondale mucks, with inclusions of Spot-Finch complex and Markey-Spot-Finch complex.

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

The area surrounding this compartment consists of state owned land. There are two private forties broken into small tracts located to the northeast, near Peggley Lake. These are primarily permanent and seasonal residences.

**Unique Natural Features:**

The potential exists for rare, threatened and endangered species and communities to exist in the area.

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

The old Mullen homestead is located in the compartment. Protection of items associated with this area will be adhered to per State Historic Preservation Office (SHPO) memo.

**Special Management Designations or Considerations:**

Adequate buffers will be left along Davenport Creek. Harvesting activities in some areas may be restricted due to the snowmobile trail. All of the compartment lies within a deer wintering complex. Harvests that would benefit deer should be done in the winter to provide browse for wintering deer.

**Watershed and Fisheries Considerations:**

JMB: Davenport Creek flows through the Northwest corner of this compartment. Davenport Creek designated a Type 1 trout stream and supports populations of Brook and Rainbow Trout. Previous Surveys have also reported Slimy Sculpin, Mottled Sculpin, and Coho Salmon. No survey information exists for McNamara Pond or Sand Lake.

**Wildlife Habitat Considerations:**

Compartment 138 is part of the Strickler Aspen Management Area where featured species include American woodcock,

ruffed grouse, snowshoe hare, and white-tailed deer. Common stand types range from pine plantations, northern hardwoods, and aspen to lowland cedar. Aspen stands range in age, providing a diversity of age classes for grouse, hare, deer, and other wildlife. The entire compartment is located within deer wintering complex. Davenport Creek passes through the northwest corner of the compartment. Davenport Creek and the riparian area will be buffered appropriately to maintain the riparian corridor. Riparian areas provide travel corridors and other important habitat characteristics for many wildlife species. Cedar stands and other lowland conifers will be protected to provide cover for wintering deer as well as snowshoe hare and other species. Timber harvests where potential food items for deer will be cut will generally occur during the winter months so tops are available as browse for wintering deer. Brush piles will be encouraged in appropriate areas (ex. near lowland conifer swamps and riparian areas) during timber harvests to provide additional hare habitat features. White pine will typically be left in stands due to its value to wildlife. Species diversity will be maintained where possible in red pine plantations.

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

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine Group subcrops below the glacial drift. The Engadine is quarried for stone/limestone six miles to the north. Gravel pits are located in the area and there may be some potential. There is no current economic oil and gas production in the UP.

### **Vehicle Access:**

Road access is generally good in this compartment. Hog Island Road, a county gravel road, runs along part of the western boundary; while Hiawatha Trail, a county paved road, runs near the eastern boundary. Paquin Creek Road, a county gravel road, runs into Sand Lake Road, a DNR maintained gravel road, near Sand Lake. Sand Lake Road criss-crosses the compartment east-west. Several two-tracks head off Sand Lake Road to access many of the stands within the compartment, with many growing in along the sides.

### **Survey Needs:**

None needed.

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

Snowmobile trail 473 crosses through the compartment. Other opportunities include hunting, trapping, fishing, wildlife viewing, and mushroom and berry picking.

### **Fire Protection:**

The upland portions of the area can be prone to wildfires. The Troll Fire in 1999 burned through a small corner in the southwestern portion of the compartment. With the vehicle access, most fires should be easily handled, but the Troll Fire is testament that larger fires can happen. The eastern third of the compartment shows numerous water sources. However, with the dry weather that has been present over the last several years, water levels are down. Sand Lake has shrunk considerably in the last 15 years. With this dryness comes the possibility of ground fire in the heavier soils, which could pose considerable mop up problems. The precipitation from the 2015 and 2016 has helped with the water levels somewhat but if we have another dry pattern some of the moisture gained back could be easily lost.

### **Additional Compartment Information:**

None.

### **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:**

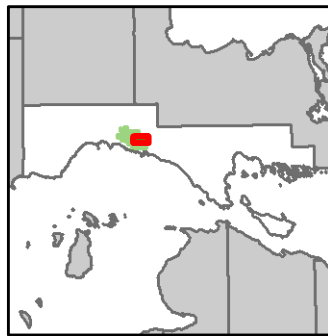
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**



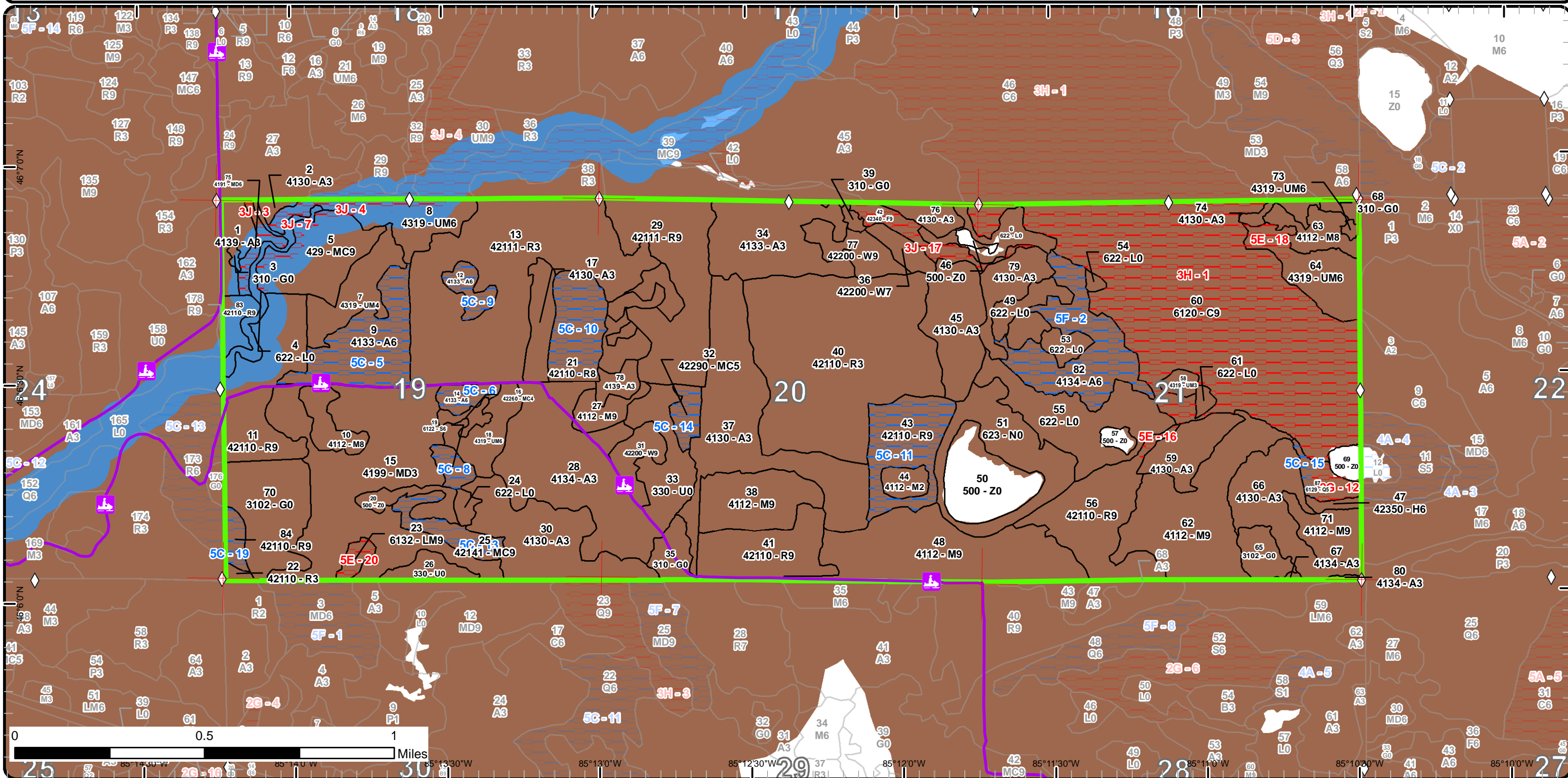


# Special Conservation Areas & Site Conditions Map

Compartment: 138  
 T43N, R07W, Sec: 19-21  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Mgmt Area: Strickler Aspen  
 YOE: 2018  
 Acres: 1,918 GIS Calculated  
 Examiner: Steve Touvila  
 Map Revised: 12/6/2016  
 Map Phase: Post Review



- Miris Corners
  - ◇ Field Grade GPS Corners
  - Snowmobile Trails
  - Designated Snowmobile Trails
  - Compartment Boundary
  - Available w/ Constraints
  - Unavailable
  - 5E: Long-Term Retention
  - Stand Boundaries
  - High Priority Trout Stream Buffer
  - Deer Winter Range
- 5C: Delay treatment for age/size class diversity or exceptional site quality  
 2G: Too wet (sensitive soils, does not include access issues)  
 3H: Deer Wintering Areas  
 3J: Water quality / BMPs (stream, river, or lake)



46° 7' 0" N, 46° 3' 0" N, 46° 0' 0" N, 45° 16' 0" N, 41° 10' 5" N  
 85° 12' 30" W, 85° 13' 30" W, 85° 10' 0" W, 85° 11' 30" W, 85° 12' 0" W, 85° 11' 0" W, 85° 10' 0" W

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	140	87	140	1	0	90	0	0	0	0	0	0	0	0	0	0	0	458
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	216	0	0	0	0	216
Hemlock	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Herbaceous Openland	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Low-Density Trees	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Conifers	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Lowland Shrub	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Marsh	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Mixed Upland Deciduous	0	0	0	100	0	0	0	5	0	0	0	0	0	0	0	0	0	0	105
Natural Mixed Pines	0	0	0	0	4	0	7	0	0	0	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	0	0	6	0	0	0	0	0	106	28	0	10	64	0	0	0	0	214
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Red Pine	0	0	116	125	0	0	0	47	186	0	0	0	0	0	0	0	0	0	474
Upland Conifers	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	31
Upland Mixed Forest	0	0	0	0	23	4	39	0	0	0	0	0	0	0	0	0	0	23	89
Upland Spruce/Fir	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11
Water	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
White Pine	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	10	0	30
<b>Total</b>	<b>249</b>	<b>140</b>	<b>203</b>	<b>371</b>	<b>28</b>	<b>4</b>	<b>136</b>	<b>16</b>	<b>47</b>	<b>315</b>	<b>64</b>	<b>20</b>	<b>10</b>	<b>64</b>	<b>220</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>1920</b>



## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2018

Compartment 138  
Total Compartment Acres: 1,918

### Acres of Harvest

Commercial Harvest - 242  
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
Red Pine	93	0	0	0	0	78	0	0	0	171
Upland Conifers	23	0	0	0	0	0	0	0	0	23
Upland Mixed Forest	48	0	0	0	0	0	0	0	0	48
<b>Total</b>	<b>164</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>242</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	242	0	0	0	0	64	42	0	0	349
Next Step	0	93	93	0	93	0	468	0	0	748
<b>Total</b>	<b>242</b>	<b>93</b>	<b>93</b>	<b>0</b>	<b>93</b>	<b>64</b>	<b>510</b>	<b>0</b>	<b>0</b>	<b>1096</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
5	45138005-Cut	23.2	429 - Mixed Upland Conifers	Sawtimber Well	90	111- 140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all deciduous 2" or more and conifer 4" or more. Do not cut cherry and leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Cut white pine 12" and under down to 4". Create brush piles if practical by encouraging limbing in piles during normal harvesting procedures, particularly near riparian areas.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, white pine and hemlock.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
8	45138008-Cut	14.9	4319 - Mixed Upland Forest	Poletimber Well	55	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). DO NOT CUT CHERRY, WHITE PINE, HEMLOCK, CEDAR, or YELLOW BIRCH. Winter cut (Dec.1-March.31) so tops are available as browse to wintering deer. Create brush piles if practical by encouraging limbing in piles during normal harvesting procedures, particularly near riparian areas.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, hemlock, cedar, and white pine.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
11	45138011-Cut	40.4	42110 - Planted Red Pine	Sawtimber Well	76	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Thin to around 120 Basal Area. Leave species diversity within the stand were present. Davenport Creek is on the northwest boundary of the stand.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
18	45138018-Cut	14.8	4319 - Mixed Upland Forest	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Winter cut (Dec.1-Mar.31) so tops are available as browse to wintering deer. Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft and a portion of the leave trees should be cherry (this will leave 8 trees per acre). DON'T cut WHITE PINE with exception of northern 1.8 acres. This area has dense white pine that can be marked down to 120 BA. There are also a few large aspen to cut within this northern area of white pine.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
26	45138026-Monitor	7.7	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	Draft Field Boundary

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

Prescription Natural regeneration survey per work instructions.

Specs:

Next Step

Treatments:

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

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

29	45138029-Cut	55.2	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	85	111-140	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear cut all species down to 2" dbh to prepare for replanting to red pine. Leave a few red or white pine along the stand edges.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use

Treatments:

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

41	45138041-Cut	30.8	42110 - Planted Red Pine	Sawtimber Well	85	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present. Don't cut the aspen.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Leave aspen to grow more until final harvest.

Comment:

Proposed Start Date: 10/01/2017

48	45138048-Spray	64.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	120	81-110	Pesticide	Other - Specify	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Beech brush herbicide to be conducted by MSU Walter's research project.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Regen:

Other

Comment:

Proposed Start Date: 10/01/2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
56	45138056-Cut	38.2	42110 - Planted Red Pine	Sawtimber Well	85	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

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

Prescription Clear cut all trees. Retention is not needed due to safety concerns for aerial spraying. Cut all deciduous down to 2" dbh. DON'T cut in northeast corner, this is site condition long term retention and scenic values. LEAVE a few red pine along the edges of the stand. Buffer along pond on north end of stand following guidelines.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Treatments: Regen(3yr); Monitoring, Herbicide Use

Acceptable red pine  
Regen:

Other Follow standard guidance for buffering pond on north end of stand. Replant to red pine.

Comment:

Proposed Start Date: 10/01/2017

64	45138064-Cut	17.8	4319 - Mixed Upland Forest	Poetimber Well	62	111-140	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Winter cut (Dec.1-Mar.31) so tops are available as browse to wintering deer. Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft and a portion of the leave trees should be cherry (this will leave 8 trees per acre). DON'T CUT cedar, hemlock, and white pine.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

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

Other  
Comment:

Proposed Start Date: 10/01/2017

70	45138070-Monitor	34.7	3102 - Grass	Nonstocked		Unspecified	Monitoring	Herbicide Use	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Monitor for release and pest.  
Specs:

Next Step Monitoring, Artificial Regen(3yr); Monitoring, Herbicide Use  
Treatments:

Acceptable red pine.  
Regen:

Other Percent to Treat = 100%  
Comment:

Proposed Start Date: 06/28/2016

83	45138083-Cut	6.6	42110 - Planted Red Pine	Sawtimber Well	76	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand where present. Davenport Creek is the eastern boundary of this stand.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

**Total Treatment Acreage Proposed: 348.6**

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Steve Touvila : Examiner

Compartment: 138

Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5C	5F	2G	3H	3J	5E	
458	368	90	0	Aspen	49	41					
216	0	0	216	Cedar				216			
3	3	0	0	Hemlock							
57	57	0	0	Herbaceous Openland							
31	31	0	0	Low-Density Trees							
8	0	3	6	Lowland Conifers	3		6				
4	0	0	4	Lowland Mixed Forest							4
81	81	0	0	Lowland Shrub							
5	0	5	0	Lowland Spruce/Fir	5						
35	35	0	0	Marsh							
105	99	0	5	Mixed Upland Deciduous						5	
11	4	7	0	Natural Mixed Pines	7						
214	214	0	0	Northern Hardwood							
12	0	12	0	Planted Mixed Pines	12						
473	412	60	2	Red Pine	60			0			2
31	24	0	6	Upland Conifers						6	
89	74	0	15	Upland Mixed Forest						9	6
11	0	0	11	Upland Spruce/Fir						11	
45	45	0	0	Water							
30	30	0	0	White Pine							
1,918	1,478	176	264	Total Forested Acres	135	41	6	216	32	11	
	77%	9%	14%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3H: Deer Wintering Areas	216	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Steve Touvila : Examiner

Compartment: 138

Year of Entry: 2018

2	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	41	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Monitor for SBW							
3	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	2F: Too steep	3D: Recreational / Scenic values	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	9	2F: Too steep	3D: Recreational / Scenic values	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	2F: Too steep	3D: Recreational / Scenic values	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Sault Ste. Marie Mgt. Unit

Compartment: 138

Steve Touvila : Examiner

Year of Entry: 2018

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	5E: Long-Term Retention	2	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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**Compartment: 138**  
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19	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	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





**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:
4139 - Aspen, Mixed Deciduous	Sapling Well	9.4	7	Immature	Good aspen regeneration 10' tall.
4130 - Aspen	Sapling Well	2.2	19	Immature	Part of larger stand to the north. Good aspen regeneration 20-25' tall.
429 - Mixed Upland Conifers	Sawtimber Well	30.6	90	111-140	Aspen is large and some tops are dying back and a few have died. White pine is bushy.
4319 - Mixed Upland Forest	Poletimber Poor	20.0	35	1-50	Opening is gradually filling in mainly with scattered white pine saplings. White pine is bushy.
4319 - Mixed Upland Forest	Poletimber Well	24.5	55	111-140	Aspen is healthy looking. There's more balsam fir and less white pine than compared to the adjacent stand 5 to the southwest. Davenport creek runs through the west end and the north edge. Trace amount of hemlock, cedar, and yellow birch in lower area along creek on west end of stand mostly if not all of these are in the site condition area.
4133 - Aspen, Mixed Pine	Poletimber Well	35.6	52	81-110	
4112 - Maple, Beech, Cherry Association	Sawtimber Medium	10.2	110	81-110	Part of beech salvage sale Sandy Beech #451151301 and was completed in 2014. Maple sprouts heavily browsed.
42110 - Planted Red Pine	Sawtimber Well	40.4	76	141-170	There's more balsam fir understory north of Sand Lake road. Davenport Creek is on the northwest border of the stand.
4133 - Aspen, Mixed Pine	Poletimber Well	7.0	51	81-110	RP was left from adjacent plantation.
42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	114.2	15	Immature	
4133 - Aspen, Mixed Pine	Poletimber Well	6.0	50	51-80	
4199 - Other Mixed Upland Deciduous	Sapling Well	99.5	22	Immature	Thick mix of regeneration coming back. Looking good.
42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	3.8	30	1-50	Opening filling in over the years. WP is bushy.
4130 - Aspen	Sapling Well	12.5	17	Unspecified	Was part of a pine plantation that was clearcut and let go back to aspen.
4319 - Mixed Upland Forest	Poletimber Well	14.8	50	81-110	More balsam to the south; aspen in middle; WP with mature aspen in NE. Has been picked over thru the years. Maple is poor form and branchy.
6122 - Black Spruce	Poletimber Well	5.3	90	81-110	



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42110 - Planted Red Pine	Sawtimber Medium	24.6	85	111-140	Large diameter red pine. Basal area varies, overall BA is 120. There's eight canopy openings totaling 3 acres, they range in size from .1 acres to 1.1 acres. Within these openings there's a mix of natural regeneration including red pine. The height of the regeneration is variable up to 10' for the red pine.
42110 - Planted Red Pine	Sapling Well	1.5	17	Immature	
6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	4.0	131	Unspecified	
42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	12.0	84	111-140	
4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.7	82	51-80	
4134 - Aspen, Spruce/Fir	Sapling Well	69.0	26	Unspecified	Good regeneration.
42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	55.2	85	111-140	Large red pine with aspen and white pine mixed in. Most WP is at north end. Small mix of other species.
4130 - Aspen	Sapling Well	43.4	16	Unspecified	Good stocking level. Paper birch concentrated more along the edges of the old logging access roads.
42200 - Natural White Pine	Sawtimber Well	10.2	40	81-110	Multi aged white pine stand.
42290 - Natural Mixed Pine	Poletimber Medium	6.8	50	111-140	
4133 - Aspen, Mixed Pine	Sapling Well	41.2	4	Immature	
42200 - Natural White Pine	Sawtimber Poor	6.7	101	1-50	Stand was cut as part of Pine Stump in 2012, left all white pine. Less white pine overstory than adjacent stand 77 which was also cut. Overall there's more aspen regeneration in stand 36 because of this.
4130 - Aspen	Sapling Well	70.5	24	Unspecified	Good stocking level. Aspen is 25' tall and sugar maple is 20' tall. Some aspen is entering pole size.
4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.6	90	51-80	Beech was salvage in 2013.
42110 - Planted Red Pine	Sapling Well	125.4	21	81-110	Portions planted in 1994, 1995 and 1998.
42110 - Planted Red Pine	Sawtimber Well	30.8	85	141-170	Thinned in 2006 - Lost Knife Pine Hardwood. Some aspen inclusions are present in the west end of the stand; they are about 0.6 acres, 0.5 acres and 0.3 acres in size.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42340 - Upland Spruce/Fir	Sawtimber Well	10.8	65	111-140	
42110 - Planted Red Pine	Sawtimber Well	30.0	85	111-140	Small inclusion of aspen/beech/RP in middle of east edge. Harvested in 2006 - Lost Knife Pine Hardwood. Updated from TCR.
4112 - Maple, Beech, Cherry Association	Sapling Medium	5.8	28	Immature	
4130 - Aspen	Sapling Well	28.7	17	Unspecified	Good regeneration coming in. The black cherry is mostly concentrated in the more open areas.
42350 - Upland Hemlock	Poletimber Well	2.6	86	141-170	
4112 - Maple, Beech, Cherry Association	Sawtimber Well	64.3	120	81-110	Thinned in 2001-02. East side of stand beech salvage in 2013. Some RP in small pockets. Overall BA of 90. Regeneration varies with full areas of beech more to the east and in the beech salvage to some full areas of sugar maple in the west.
42110 - Planted Red Pine	Sawtimber Well	39.9	85	81-110	
4319 - Mixed Upland Forest	Sapling Well	3.6	45	1-50	
4130 - Aspen	Sapling Well	16.8	7	Immature	Stand was clear cut in 2009. Timber sale #451170801 (McNamara Pond Mix).
6120 - Lowland Cedar	Sawtimber Well	216.3	130	111-140	
4112 - Maple, Beech, Cherry Association	Sawtimber Well	56.9	86	81-110	Stand was thinned in 2009 as part of McNamara Pond Mix.
4112 - Maple, Beech, Cherry Association	Sawtimber Medium	12.2	81	81-110	Stand was thinned in 2009 as part of McNamara Mix. Strip of aspen cut along road.
4319 - Mixed Upland Forest	Poletimber Well	23.4	62	111-140	Stand has been picked over thru the years. Upland transitioning into lowland.
4130 - Aspen	Sapling Well	30.9	7	Immature	
4134 - Aspen, Spruce/Fir	Sapling Well	0.7	32	1-50	
4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.2	80	51-80	Was part of McNamara Mix sale #451170801 that closed in 2009. Was harvested with stand 62. East half of this stand has better regeneration and west half has lighter regeneration and moderate raspberry growth.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>73</b>	4319 - Mixed Upland Forest	Poletimber Well	2.7	37	51-80	
<b>74</b>	4130 - Aspen	Sapling Well	4.3	9	Immature	Stand was clear cut in 2007 as part of Hunters Harvest in the adjoining compartment to the north. Good stocking level coming back. Aspen is 12' tall.
<b>75</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.3	69	81-110	Variable stand - mixed hardwood, aspen, and conifer. Some younger hemlock looking good.
<b>76</b>	4130 - Aspen	Sapling Well	6.9	8	Unspecified	Stand goes into adjacent compartment. Cut in 2008 as part of DEQ Delight, which was put up with stands in adjacent compartment to the north. This is north of Davenport Creek and is only accessible with a portable bridge. Aspen is 15' tall.
<b>77</b>	42200 - Natural White Pine	Sawtimber Well	12.7	101	81-110	
<b>78</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	11.0	4	Immature	Stand was cut in 2012 as part of Pine Stump. Thick regeneration of 8-10' tall.
<b>79</b>	4130 - Aspen	Sapling Well	19.8	4	Immature	Stand was cut in 2012 as part of Pine Stump. Left white pine, cedar and yellow birch. 6-8' tall aspen and black cherry with good stocking level. Transition ground. Slightly upland with pockets of lower ground, but gradiates into decent upland in places.
<b>80</b>	4134 - Aspen, Spruce/Fir	Sapling Well	0.7	32	1-50	Same stanbd as adjacent compartment to south.
<b>82</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	41.2	50	51-80	
<b>83</b>	42110 - Planted Red Pine	Sawtimber Well	6.6	76	141-170	Small balsam fir blow down pocket in center of stand.
<b>84</b>	42110 - Planted Red Pine	Sawtimber Well	4.9	84	111-140	Stand was thinned in 2000 along with the larger adjacent RP stand in compartment 145. Basal area is now 140.
<b>87</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	8.2	86	51-80	



Stand	Cover Type	Acres	Managed Site	General Comments:
3	310 - Herbaceous Openland	1.0	No	A few white pine in the opening.
4	622 - Lowland Shrub	9.6	No	Lowland shrub at edges of Davenport Creek.
6	622 - Lowland Shrub	12.2	No	Headwater area to a branch of the Davenport Creek.
20	500 - Water	8.6	No	
24	622 - Lowland Shrub	2.8	No	Thick and tall tag alder area.
26	330 - Low-Density Trees	7.7		
33	330 - Low-Density Trees	23.1	No	Low density white and jack pine.
35	310 - Herbaceous Openland	8.8	No	Could benefit from a prescribed burn to set back sapling growth.
39	310 - Herbaceous Openland	1.7	No	A few white pine in in the opening.
46	500 - Water	1.7	No	
49	622 - Lowland Shrub	7.8	No	Thick tagalder.
50	500 - Water	27.1	No	
51	623 - Emergent Wetland	35.3	No	
53	622 - Lowland Shrub	5.4	No	10' tall tagalder
54	622 - Lowland Shrub	1.4	No	tag alder
55	622 - Lowland Shrub	39.8	No	
57	500 - Water	3.0	No	
61	622 - Lowland Shrub	2.0	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
65	3102 - Grass	9.5	No	
68	310 - Herbaceous Openland	1.1	No	
69	500 - Water	4.5	No	
70	3102 - Grass	34.8		