



# Compartment Review Presentation

## Gwinn Forest Management Unit

Compartment 32237

Entry Year 2020

Acreage: 1,572

County Marquette

Management Area: Chain Lakes Moraine

**Revision Date:** 2018-08-06

**Stand Examiner:** Rankin Smith

**Legal Description:**

T45N R28W Sec's 19, 20, and 21

**Identified Planning Goals:**

Management goals range from maintaining and, if possible, improving timber quality and production to improving wildlife habitat as well as protecting water quality. Timber types within this compartment will continue to be managed on an even-aged basis mainly for fiber production with some saw log production occurring on the more productive sites. Managing as such will provide both cover and feed for wildlife.

**Soil and topography:**

Topography: Soil composition ranges from sandy outwash to low peat and muck wetlands. Topography is nearly level to slightly rolling with steep ridges surround bogs and swamps. Soils range from the Rubicon-Keweenaw complex to Greenwood and Dawson peat. Soil productivity is higher in this compartment with respect to the surrounding landscape to the north and west. Soils grade from sands in the west to loamy sands in the east.

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

Compartment: Ownership in and around the compartment is almost entirely state land. There are some private parcels within the compartment and a hunting club immediately to the northwest of the compartment. There is no development besides the Flat Rock Road and the old ELF ROW. Land use is in timber production and recreation.

**Unique Natural Features:**

There are 10 stands that were designated as potential old growth at the last entry and have been carried forward for review. These stands include: 5, 6, 19, 20, 33, 37, 39, 40, 41, and 69.

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

None.

**Special Management Designations or Considerations:**

There are 10 stands that were designated as potential old growth at the last entry and have been carried forward for review. These stands include: 5, 6, 19, 20, 33, 37, 39, 40, 41, and 69.

**Watershed and Fisheries Considerations:**

The western region of this compartment contains an unnamed waterbody and stream which serve as tributaries to Flat Rock Creek. Additionally, this compartment contains reaches of Flat Rock Creek which serves as a tributary to the West Branch of the Escanaba River. The unnamed tributary is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for the unnamed tributary in riparian areas susceptible to Aspen regeneration (specifically stands 32 and 34). 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. Flat Rock Creek is a designated trout stream less than 50' width. A 300' buffer is recommended for Flat Rock Creek in riparian areas susceptible to Aspen regeneration (specifically stands 28 and 38). 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. The northeastern region of this compartment contains Wild West Creek which serves as a tributary to Flat Rock Creek. Wild West Creek is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for Wild West Creek in riparian areas susceptible to Aspen regeneration (specifically stand 1). 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 237 is found within the Chain Lakes Moraine Management Area; on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife

corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

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

Sand/gravel pits are not located this area, and sand & gravel potential within the compartment appears to be limited. There is no known metallic mineral potential in this area, though there has been metallic mineral leasing in the area in the past. There is no potential for economical oil and gas production in the UP.

### **Vehicle Access:**

Primary access to this compartment is via Co. Rd. CAA (Flat Rock Road). Various two tracks allow access through the remainder of the compartment. Closed roads do exist that will be reopened temporarily for timber sale purposes.

### **Survey Needs:**

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

No developed recreation exists in the compartment. Potential for snowmobile trail along the old ELF ROW does exist.

### **Fire Protection:**

This compartment is located within the South Ishpeming-581 Zone dispatch area. Predominate cover type surrounding the compartment is jack pine. Fire prone species do exist within the compartment but not at the scale as adjacent compartments. The majority of this compartment is dominated by aspen. Adequate roads exist to aid in fire protection within the area.

### **Additional Compartment Information:**

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

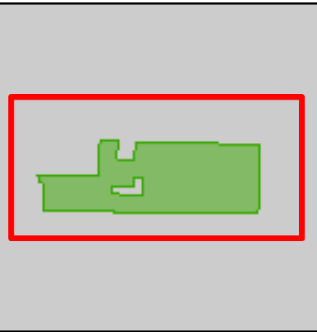
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

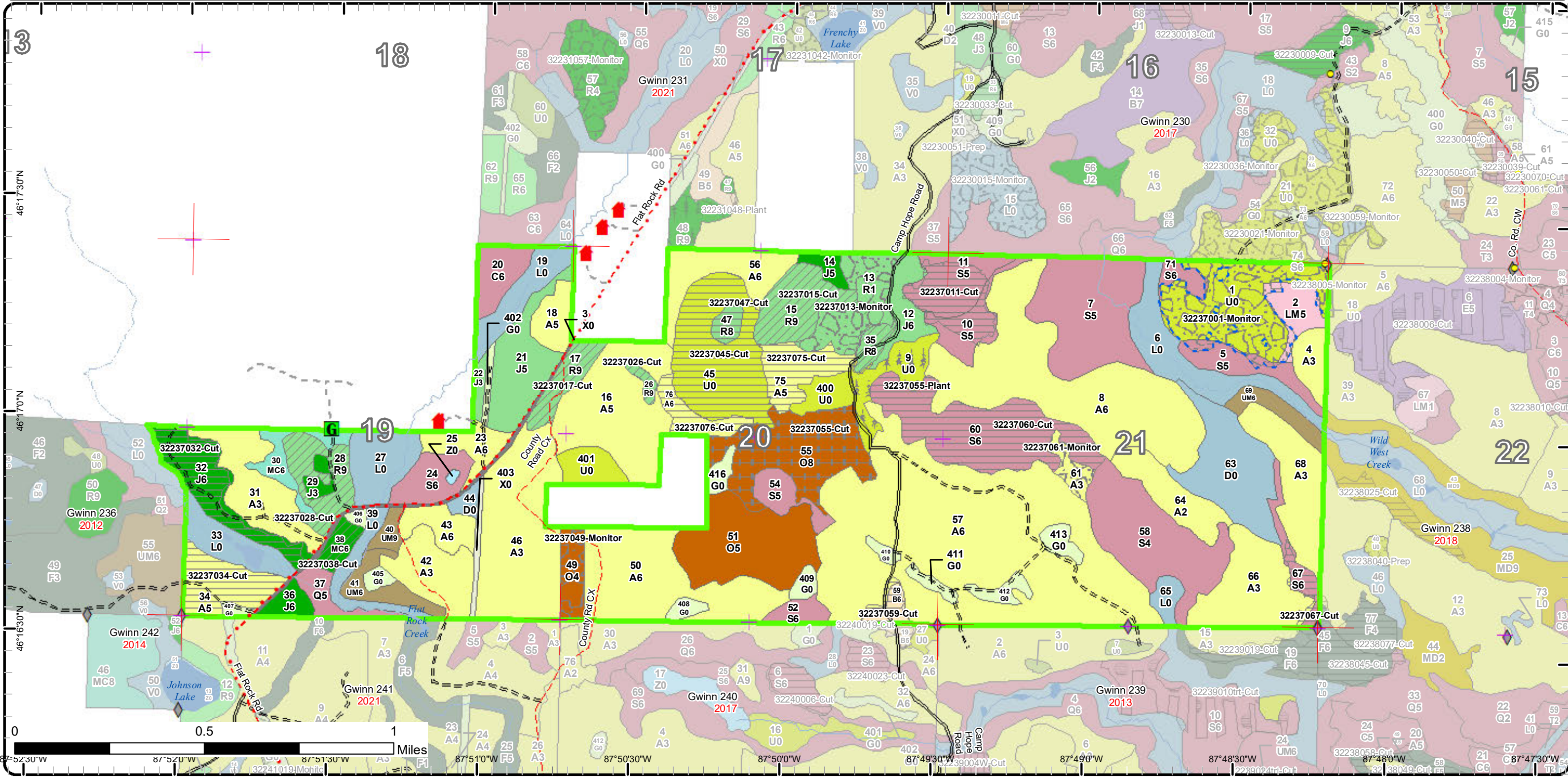
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 237  
 T45N, R28W, Sec: 19, 20, 21  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Chain Lakes Moraine  
 YOE: 2020  
 Acres: 1,572 GIS Calculated  
 Examiner: Rankin Smith  
 Map Revised: 10/18/2018  
 Map Phase: Pre-Review

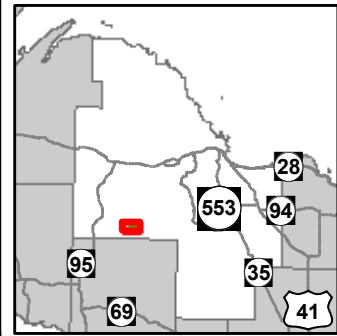


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Cabin
- G Gate
- Culvert
- ▲ Structures
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Planting (tree species)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 414 - Other Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated
- Lakes

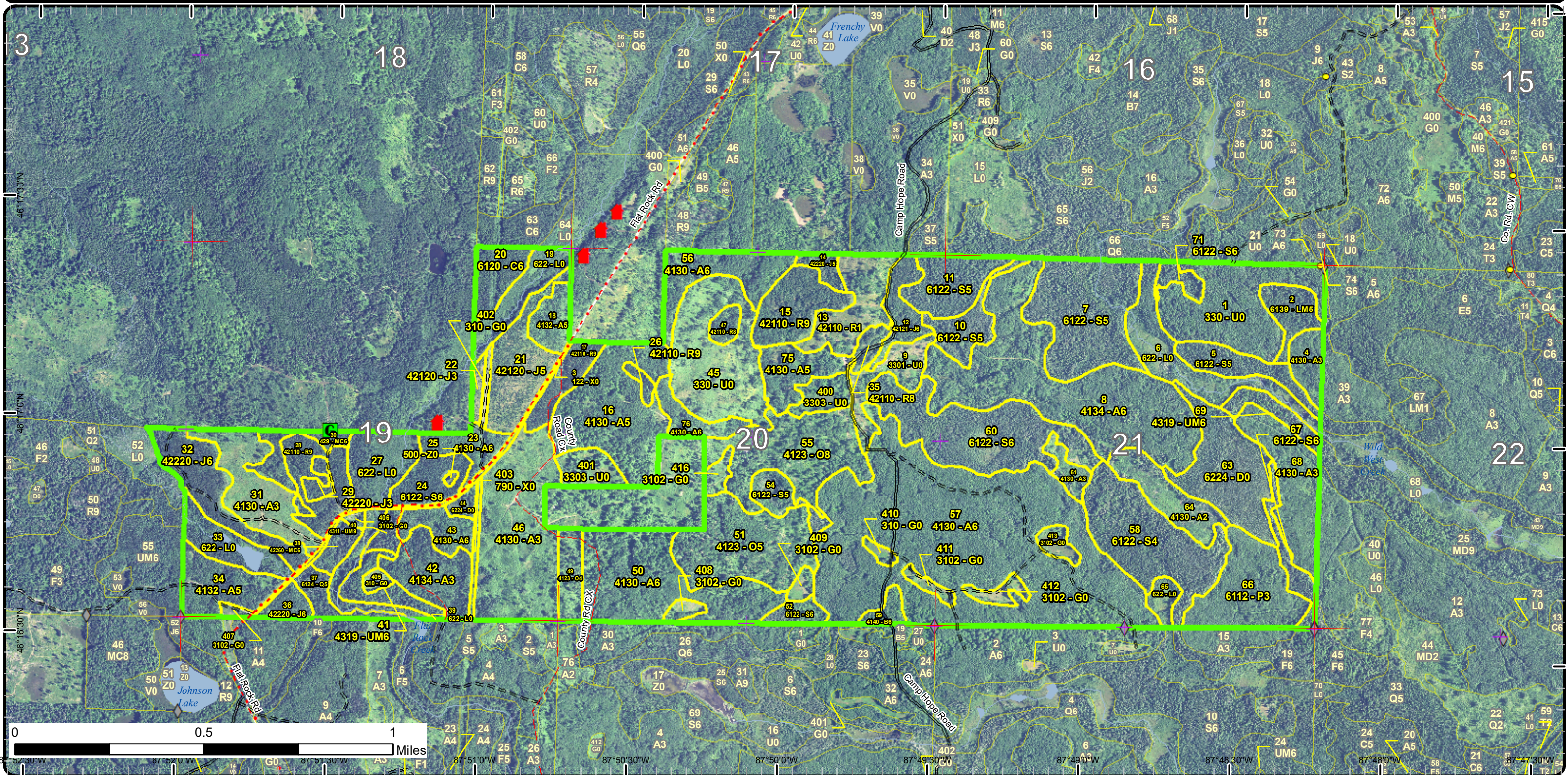


# Stand Boundary Map

Compartment: 237  
 T45N, R28W, Sec: 19, 20, 21  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Chain Lakes Moraine  
 YOE: 2020  
 Acres: 1,572 GIS Calculated  
 Examiner: Rankin Smith  
 Map Revised: 8/22/2018  
 Map Phase: Web-Post

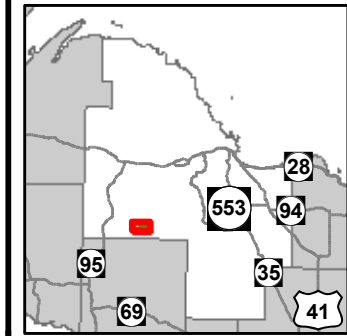


- Miris Corners
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- ◆ Field Grade Corners
- Counties
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- Lakes and Rivers All
- Compartment Boundary
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- 612 - Lowland Coniferous Forest
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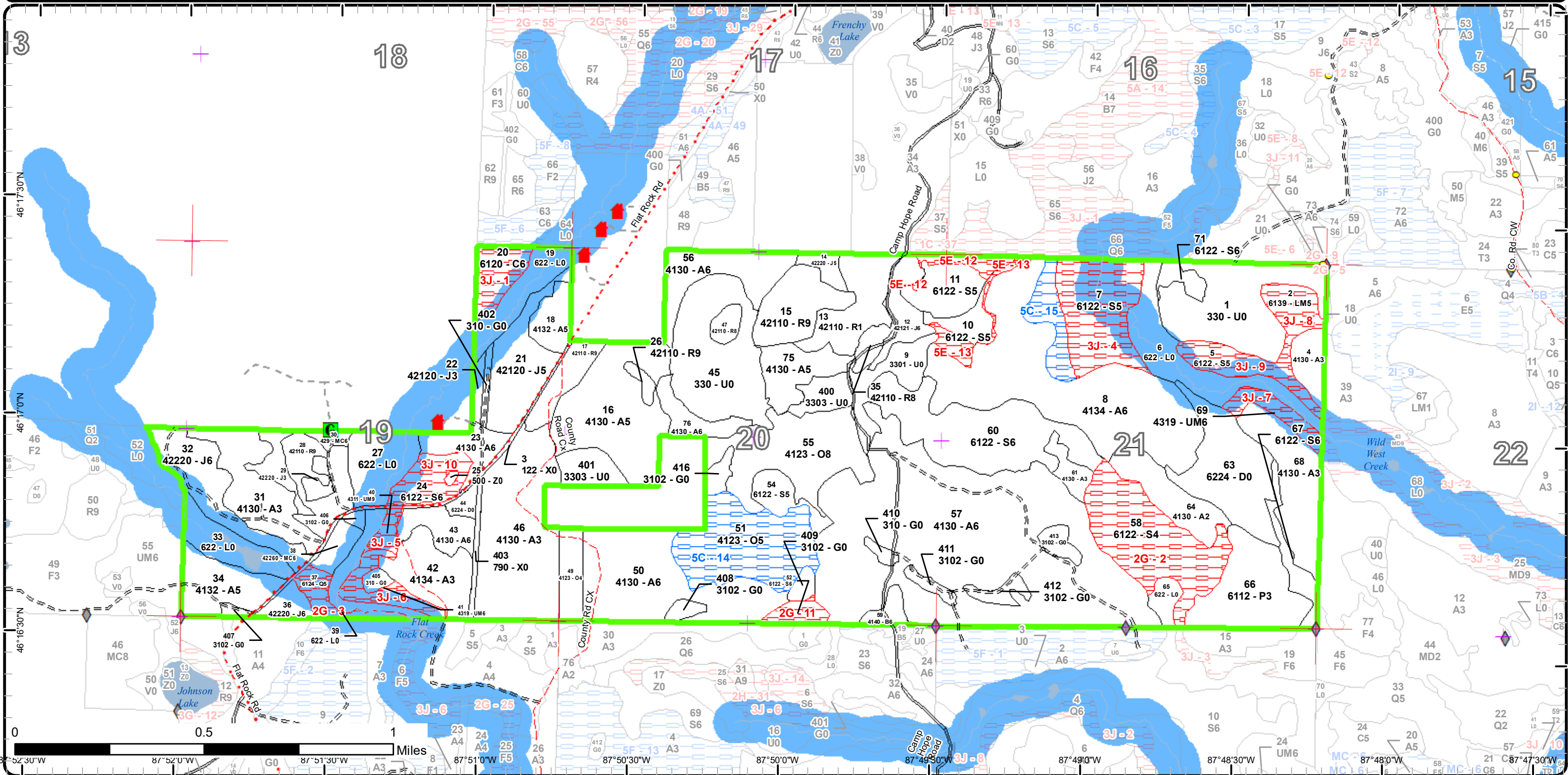


# Special Conservation Areas & Site Conditions Map

Compartment: 237  
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 County: Marquette  
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 Map Revised: 8/22/2018  
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- G Gate
- Culvert
- ▲ Structures
- 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)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	114	39	174	265	78	0	0	0	0	0	0	0	0	0	0	0	0	668
Bare/Sparsely Vegetated	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Herbaceous Openland	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Jack Pine	0	0	29	26	0	0	25	0	0	0	0	0	0	0	0	0	0	0	79
Low-Density Trees	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Lowland Aspen/Balsam Poplar	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Conifers	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Lowland Mixed Forest	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11
Lowland Shrub	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Lowland Spruce/Fir	0	0	0	0	0	13	0	5	23	95	99	0	0	0	0	0	0	0	235
Natural Mixed Pines	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Oak	0	0	0	0	0	0	0	0	54	44	0	0	0	0	0	0	0	0	98
Paper Birch	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Red Pine	0	23	0	0	0	3	60	0	0	0	0	0	0	0	0	0	0	0	85
Treed Bog	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Upland Conifers	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	4	23
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Total</b>	<b>298</b>	<b>137</b>	<b>102</b>	<b>210</b>	<b>265</b>	<b>94</b>	<b>91</b>	<b>5</b>	<b>34</b>	<b>176</b>	<b>160</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>1572</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 237

Total Compartment Acres: 1,572

Commercial Harvest - 312  
 Harvests with Site Condition - 0  
 Next Step Harvest - 10  
 Habitat Cut - 10

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	73	0	0	0	0	0	0	0	0	73
Jack Pine	22	0	0	0	0	0	0	0	0	22
Low-Density Trees	47	0	0	0	0	0	0	0	0	47
Lowland Aspen/Balsam Poplar	6	0	0	0	0	0	0	0	0	6
Lowland Spruce/Fir	52	0	0	0	0	0	0	0	0	52
Natural Mixed Pines	0	0	0	0	0	6	0	0	0	6
Oak	0	0	0	0	0	44	0	0	0	44
Red Pine	4	0	0	0	0	58	0	0	0	62
<b>Total</b>	<b>205</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>312</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	312	0	13	0	0	86	0	0	0	411
Next Step	10	115	83	0	0	79	249	0	0	536
<b>Total</b>	<b>322</b>	<b>115</b>	<b>96</b>	<b>0</b>	<b>0</b>	<b>79</b>	<b>335</b>	<b>0</b>	<b>0</b>	<b>947</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	32237001-Monitor	47.7	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition: BMPs</b>								
<u>Prescription</u>											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, spruce-fir.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 06/20/2017											
8	32237011-Cut	21.2	4134 - Aspen, Spruce/Fir	Poletimber Well	26	1-50	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut, harvesting all balsam fir, black spruce and tamarack greater than 6" stump diameter, leaving enough spruce and tamarack to meet 3% retention. Cut no cedar or white pine if present.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Spruce, tamarack, fir, cedar, white pine.											
<u>Regen:</u>											
<u>Other</u> SBW											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 01/11/2016											
13	32237013-Monitor	21.8	42110 - Planted Red Pine	Sapling Poor	4	Immature	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Count per TMS spec											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Red pine, oak, mixed hardwood, conifer											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
15	32237015-Cut	21.7	42110 - Planted Red Pine	Sawtimber Well	53	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Row thin Red Pine down to 100-120 BA. Cut all jack pine 2" and up as well as immature aspen. Leave overmature aspen for diversity.											
<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> 10/01/2019											





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
17	32237017-Cut	11.1	42110 - Planted Red Pine	Sawtimber Well	53	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

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

Prescription Thin Red Pine to 90-100 BA. Take suppressed and poorly formed trees first. Leave Jack Pine and Aspen for diversity but harvest if needed for operability or in competition with crop red pine.

Next Step  
Treatments:

Acceptable N/A  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

26	32237026-Cut	2.5	42110 - Planted Red Pine	Sawtimber Well	47	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Row thin. Remove aspen needed for operability leave the rest. Leave oak.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

28	32237028-Cut	17.9	42110 - Planted Red Pine	Sawtimber Well	53	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Selection harvest of Red Pine down to 100-120 BA. Lightly thin west portion and thin eastern portion heavier. Leave aspen for diversity.

Specs: Exclude sapling jack pine stand on the interior.

Next Step  
Treatments:

Acceptable  
Regen:

Other Wildlife - Add leave aspen for diversity, pileated woodpecker, Northern Goshawk – Game Fund Purchased  
Comment:

Proposed Start Date: 10/01/2019

32	32237032-Cut	22.1	42220 - Natural Jack Pine	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut all trees 2" and larger. Leave a retention pocket as a buffer against unnamed tributary with large slope leading down. Maintain a 100' buffer. Leave some larger aspen for retention (try to pick nesting trees).

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Jack pine  
Regen:

Other Wildlife - Retention should also include some larger Aspen look for trees with forked crown for raptor nesting sites – Northern Goshawk. The SE tip of this stand is – Game Fund Purchased  
Comment:

Proposed Start Date: 10/01/2019



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
34	32237034-Cut	20.3	4132 - Aspen, Jack Pine	Poletimber Medium	43	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

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

Prescription Clearcut with retention on the edge. Cut all species 2" and larger. Leave some mature aspen and jack pine. Leave a 300' buffer from stream edge. Retain some larger red and white pine.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Aspen, Jack Pine  
Regen:

Other Wildlife - Retention should also include some larger Aspen look for trees with forked crown for raptor nesting sites – Northern Goshawk. Favor white pine (5%) – black bear and Red Pine (5%) – Gray Jay. NE tip of stand is– State Game Fund Purchased (MNFI note for Purple Clematis)

Proposed Start Date: 10/01/2019

35	32237035-Cut	4.6	42110 - Planted Red Pine	Sawtimber Medium	50	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Row thin Red pine. Use selection as well to harvest all log size aspen and all jack pine as well. Leave 18" + Red Pine for retention. Leave smaller pole size aspen and jack pine as well. Protect oak regeneration.

Next Step  
Treatments:

Acceptable  
Regen:

Other Wildlife - Care should be taken around sub-canopy red oak (MNFI note for Purple Clematis)  
Comment:

Proposed Start Date: 10/01/2019

38	32237038-Cut	6.0	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	53	1-50	Harvest	Low Thinning	4221 - Natural Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Thin red pine, jack pine, aspen, and understory balsam fir and spruce. Leave Birch, Cherry, and some Aspen for diversity. Remove all suppressed and declining trees. Maintain a 100' buffer from stream edge.

Next Step  
Treatments:

Acceptable Red pine, jack pine, aspen.  
Regen:

Other Wildlife - Retain all paper birch (5%) - pileated woodpecker (MNFI note for Purple Clematis)  
Comment:

Proposed Start Date: 10/01/2019

45	32237045-Cut	47.3	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut all aspen, fir, and pine 2" and larger. Retain all red oak.  
Specs:

Next Step Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant  
Treatments:

Acceptable Red Pine  
Regen:

Other Wildlife - Retain all Red Oak – Whitetail deer, black bear  
Comment:

Proposed Start Date: 10/01/2019



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
47	32237047-Cut	4.2	42110 - Planted Red Pine	Sawtimber Medium	53	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal

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

Prescription Clearcut all species 2" and larger. No retention due to fire damage to all trees and stressed aspen.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

49	32237049-Monitor	10.0	4123 - Red Oak	Poletimber Poor	88	1-50	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Count during MIFI field work. Reevaluate in 2023.

Specs:

Next Step SitePrep, Scarification; Harvest, Clearcut with Retention

Treatments:

Acceptable Mixed hardwood, conifer, aspen

Regen:

Other

Comment:

Proposed Start Date: 10/01/2023

55	32237055-Cut	43.7	4123 - Red Oak	Sawtimber Medium	90	51-80	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Remove overstory. Leave 10-20 BA. Leave oversize oak. Try to exclude aspen on the edge. Use regeneration protection spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen:

Other

Comment: Wildlife- No oversized trees should be cut and leave trees with obvious defects for wildlife habitat- black bear Lower BA to 10-20 sq. ft for Oak regeneration

Proposed Start Date: 10/01/2019

9	32237055-Plant	13.0	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspec ified	Planting	Initial Plant	4123 - Red Oak	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Plant jack pine

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Jack pine mixed conifer

Regen:

Other

Comment:

Proposed Start Date: 10/01/2009



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
57	32237059-Cut	5.4	4130 - Aspen	Poletimber Well	32	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Field Boundary

**Habitat Cut: No****Site Condition:**Prescription Clearcut with no reserves.Specs:Next Step Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)Treatments:Acceptable Red pineRegen:OtherComment:Proposed Start Date: 10/01/2016

60	32237060-Cut	52.1	6122 - Black Spruce	Poletimber Well	93	141- 170	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**Prescription Clearcut w/ Retention. Leave all paper birch. Exclude wetter areas for BMP's. Put retention pocket on north side of stand and include someSpecs: tamarack.Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate)Treatments:Acceptable Black Spruce, Tamarack, Balsam Poplar, Cedar.Regen:Other

Wildlife - Retention should include all some mature Tamarack – Gray Jay

Comment:Proposed Start Date: 10/01/2019

61	32237061- Monitor	6.0	4130 - Aspen	Sapling Well	5	Immatur re	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Count per MIFI guidelines.Specs:Next StepTreatments:Acceptable AspenRegen:OtherComment:Proposed Start Date: 10/01/2020

66	32237067-Cut	6.1	6112 - Lowland Aspen	Sapling Well	16	1-50	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Clearcut stand leave all white pine, red pine, and oak. Retention will be a narrow strip separating a bog from the an aspen stand.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable aspen, spruce, fir, and mixed hardwoodRegen:OtherComment:Proposed Start Date: 07/01/2016



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
75	32237075-Cut	16.5	4130 - Aspen	Poletimber Medium	40	81-110	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal

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

Prescription Clearcut all aspen 2" and above. Leave retention on the edge and leave all red oak for diversity.

Specs:

Next Step Planting, Initial Plant; Pesticide, Skidder/Mechanical; SitePrep, Trenching

Treatments:

Acceptable Replant with jack pine

Regen:

Other Wildlife - Make sure prep work does not harm large Red Oak

Comment:

Proposed Start Date: 10/01/2019

76	32237076-Cut	9.6	4130 - Aspen	Poletimber Well	40	81-110	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut all aspen 2" and up. Leave some retention on the edge. Leave all cherry and oak for diversity.

Specs:

Next Step Planting, Initial Plant; Pesticide, Skidder/Mechanical; SitePrep, Trenching

Treatments:

Acceptable Planted Jack Pine.

Regen:

Other Wildlife - Make sure prep work does not harm large Red Oak

Comment:

Proposed Start Date: 10/01/2019

**Total Treatment  
Acreage Proposed: 410.8**

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rankin Smith : Examiner

Compartment: 237  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	2G	3J	5E
668	668	0	0	Aspen				
3	3	0	0	Bare/Sparsely Vegetated				
12	0	0	12	Cedar			12	
31	31	0	0	Herbaceous Openland				
80	80	0	0	Jack Pine				
124	124	0	0	Low-Density Trees				
34	34	0	0	Lowland Aspen/Balsam Poplar				
8	0	0	8	Lowland Conifers		8		
11	0	0	11	Lowland Mixed Forest			11	
93	93	0	0	Lowland Shrub				
235	95	12	128	Lowland Spruce/Fir	12	53	64	11
6	6	0	0	Natural Mixed Pines				
98	54	44	0	Oak	44			
5	5	0	0	Paper Birch				
85	85	0	0	Red Pine				
40	40	0	0	Treed Bog				
10	10	0	0	Upland Conifers				
23	0	0	23	Upland Mixed Forest			23	
6	6	0	0	Urban				
1	1	0	0	Water				
1,572	1,333	56	182	Total Forested Acres	56	61	110	11
	85%	4%	12%	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	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rankin Smith : Examiner

Compartment: 237  
Year of Entry: 2020

2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	47	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rankin Smith : Examiner

Compartment: 237  
Year of Entry: 2020

8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	14	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Rankin Smith : Examiner

Compartment: 237  
Year of Entry: 2020

14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	44	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	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.

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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	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:
2	6139 - Mixed Lowland Forest	Poletimber Medium	11.3	70	81-110	Mix of spruce and deciduous trees. Very wet to due to being a depression and a tributary to Wild West Creek just to the south.
4	4130 - Aspen	Sapling Well	9.1	17	Immature	Southwestern edge of stand is a low area with open spots containing tag alder and some trace black spruce.
5	6122 - Black Spruce	Poletimber Medium	14.1	83	111-140	Low and wet. Relict log size Red and White Pine, and Aspen on the edges. Will not be harvested due to acting as a buffer to Wild West Creek.
7	6122 - Black Spruce	Poletimber Medium	48.4	83	51-80	Most mature/merchantable spruce is along the edges. Very wet interior. Acts as a buffer for Wild West Creek.
8	4134 - Aspen, Spruce/Fir	Poletimber Well	96.7	26	1-50	Aspen stand with diverse mix of conifers. Decent stem quality. Trees are 2-3 sticks.
10	6122 - Black Spruce	Poletimber Medium	12.8	83	111-140	Drier than adjacent stand 11 with less cedar. Some aspen and red maple included in stand. Currently prescribed with stand 11 for sale. Sale name is Camp Hope combo.
11	6122 - Black Spruce	Poletimber Medium	19.7	83	81-110	Very wet stand. Is currently prescribed for sale along with part of stand 10. Sale name is Camp Hope combo.
12	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	12.0	26	Immature	Parts are regenerating to jack pine and part to aspen, and even some small openings exist. Remnant White and Red pine are left. Heavy densities of volunteer jack pine in spots.
13	42110 - Planted Red Pine	Sapling Poor	22.8	4	Immature	Harvested in 2012: TS# 105-10-01. Replanted to red pine.
14	42220 - Natural Jack Pine	Poletimber Medium	4.5	28	1-50	This was an old opening and is now regenerating to jack pine. Stand is half and half of sub-merchantable 2" pine and 5-6" pine.
15	42110 - Planted Red Pine	Sawtimber Well	21.7	53	141-170	Mostly 4-5 stick red pine. More overstory aspen in southern portion of the stand. Lots of open regeneration areas with jack pine and aspen within stand.
16	4130 - Aspen	Poletimber Medium	49.3	33	1-50	Highly Variable Stocking. Lots of openings. 2-3 Stick Aspen. Various larger 4-5 stick log/ large pulp aspen.
17	42110 - Planted Red Pine	Sawtimber Well	11.1	53	141-170	Row thinned in 2012. Lower portion of stand is much less densely stocked than north. Highly variable densities due to planting failures.
18	4132 - Aspen, Jack Pine	Poletimber Medium	9.9	42	1-50	Mostly 3 and some 4 stick aspen. Decent to good form quality. Cut in next entry (2028).
20	6120 - Lowland Cedar	Poletimber Well	12.1	95	81-110	Too wet to access and to harvest.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	42120 - Planted Jack Pine	Poletimber Medium	25.7	15	Immature	Stand Year Origin was 2003. Stand now fully established. Remnant White and Red pine as well as white spruce on the edges.
22	42120 - Planted Jack Pine	Sapling Well	3.0	15	Immature	Planted jack pine. Planted the same year as stand 21. Divided by a Right of Way which caused them to be two separate stands.
23	4130 - Aspen	Poletimber Well	11.1	42	51-80	3 stick aspen with mix of poor and decent quality stems. Western edge of stand is a knob of Paper Birch that is mostly Log and some pole trees. Should be ready to harvest in 2028.
24	6122 - Black Spruce	Poletimber Well	13.3	45	Unspecified	Lowland conifers with high density of suppressed spruce. Very wet with a lake on the interior of stand.
26	42110 - Planted Red Pine	Sawtimber Well	2.5	47	141-170	Small patch of red pine located within larger aspen stand (16). Mostly 4 some 5 stick trees. Some overmature aspen included. Mild aspen and Red pine regeneration. Trace amounts of Red Oak.
28	42110 - Planted Red Pine	Sawtimber Well	17.9	53	111-140	5 stick red pine. Stand was thinned in 2012 under sale name Flat Rock Red Pine. A light thinning will be prescribed.
29	42220 - Natural Jack Pine	Sapling Well	3.5	26	Immature	This stand was created from the release cutting of the adjacent red pine stand. This stand originated post 1992 harvest. There is some aspen in this stand as well.
30	429 - Mixed Upland Conifers	Poletimber Well	9.8	26	1-50	Stand was created by the release of the adjacent red pine stand.
31	4130 - Aspen	Sapling Well	27.8	6	Immature	Harvested in 2012. Full regeneration. Trace amount of red and white pine. Some jack pine volunteers.
32	42220 - Natural Jack Pine	Poletimber Well	25.1	55	81-110	Previously cut in 1963. Mature jack pine stand on edge of Flat Rock Creek. Mostly 4 some 5 stick trees.
34	4132 - Aspen, Jack Pine	Poletimber Medium	20.3	43	81-110	Poor quality aspen with large component of jack pine. Mostly 4-5 five stick trees.
35	42110 - Planted Red Pine	Sawtimber Medium	4.6	50	141-170	A mixture of retention for adjacent harvested stands. Patches of Aspen, row planted red pine and mixed in jack pine. Some areas of aspen regeneration on the edges and some large 18" Red Pine mixed in.
36	42220 - Natural Jack Pine	Poletimber Well	5.8	27	1-50	Stand is a mix of jack pine and aspen.
37	6124 - Lowland Spruce-Fir	Poletimber Medium	8.3	80	1-50	Heavy mortality within stand. Very wet stand adjacent to Flat Rock Creek.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	6.0	53	1-50	Good diversity with aspen and birch. Most birch is stressed or dying and located along Flat Rock road. Mature red pine is 5 sticks and Aspen is 5-6 sticks. Much of the timber is overmature and poorly formed. This stand should be managed simultaneously as stand 28.
40	4311 - Pine, Aspen Mix	Sawtimber Well	4.2	70	111-140	Buffer along Flat Rock Creek. Dominated by red pine, jack pine, fir and spruce. There is some mature aspen mixed in as well. Spruce Budworm mortality noticeable. Will not be harvested due to proximity to Flat Rock Creek.
41	4319 - Mixed Upland Forest	Poletimber Well	10.4	80	111-140	Heavy Spruce and Balsam fir mortality. Overmature aspen with scattered mature red pine. Few stems of Aspen and Red Pine but occur as supercanopy and occupy a large portion of the canopy space. Buffer for Flat Rock Creek. Will not be harvested due to proximity to Flat Rock.
42	4134 - Aspen, Spruce/Fir	Sapling Well	22.4	27	Immature	Heavy mix of spruce and aspen. Lower quality understory of balsam fir, birch and ironwood is quite dense.
43	4130 - Aspen	Poletimber Well	10.7	42	51-80	Aspen on a ridge with red pine downhill. Better growth on top and less growth downhill.
46	4130 - Aspen	Sapling Well	60.8	6	Immature	Harvested in 2012: TS# 107-10-01. Heavy rolling topography with very rocky soil. Stand is fully regenerated with over story white and red pine.
47	42110 - Planted Red Pine	Sawtimber Medium	4.2	53	81-110	This stand is also a site of fire that heavily damaged adjacent stand 45. 3-4 stick Red Pine and Aspen. Lots of skips in the planting plus possible fire caused mortality.
49	4123 - Red Oak	Poletimber Poor	10.0	88	1-50	Harvested in 2012: TS# 107-10-01 "Broken Binding Aspen". Good regeneration of hardwoods on north side but poor regen on south side. Lots of raspberry. Most birch is dead or dying. Re-evaluate in five years for regeneration success.
50	4130 - Aspen	Poletimber Well	54.4	23	1-50	Hilly terrain with a larger mix of species adjacent to private property.
51	4123 - Red Oak	Poletimber Medium	43.9	88	81-110	Thinned in 2012. Variable stocking due to regeneration gaps for oak and red maple recruitment. Most birch is dead or dying. Hopeful that thinning will increase vigor and subsequent regeneration success.
52	6122 - Black Spruce	Poletimber Well	5.7	78	81-110	Mature spruce and tamarack. 4-5 stick trees. Too wet and to harvest along with a steep slope leading into the depression.
54	6122 - Black Spruce	Poletimber Medium	8.9	70	81-110	Small stand of black spruce and a small covered bog surrounded by very steep slope.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4123 - Red Oak	Sawtimber Medium	43.7	90	51-80	Harvested in 2012: TS# 32-106-10-01. Seed tree harvest (birch) leaving all oak and any softwood. Majority of leftover Birch is dead or dying. Full regeneration after harvest. Excellent regeneration in gaps and decent regeneration in the understory.
56	4130 - Aspen	Poletimber Well	22.6	33	Immature	3 stick aspen. Northern and western edge has more diversity of species and larger log size Aspen and Red Pine.
57	4130 - Aspen	Poletimber Well	193.3	32	51-80	4 stick aspen. Mostly decent-poor quality.
58	6122 - Black Spruce	Poletimber Poor	47.0	93	51-80	Variable stand in terms of density. There is a small creek toward the southern end of this stand that merges with other small creeks that eventually flow into the Wild West Creek. Very wet.
59	4140 - Other Upland Deciduous	Poletimber Well	4.7	94	81-110	Deteriorating paper birch stand that is prescribed for treatment. Sale name is Camp Hope Combo. 4-5 stick paper birch.
60	6122 - Black Spruce	Poletimber Well	52.1	93	141-170	Mostly moist soil with a large bog in the middle. Large Red Pine on south end with Paper Birch islands dispersed throughout. Certain areas will be too wet to harvest.
61	4130 - Aspen	Sapling Well	6.0	5	Immature	Harvested in 2012: TS# 105-10-01. Moderate regeneration. A few low bogs in the stand. Evaluate in two years when in adjacent stand for sale prep.
64	4130 - Aspen	Sapling Medium	18.5	5	Immature	Harvested in 2012: TS# 105-10-01. We clearcut this stand leaving some birch where aspen is lacking in stocking. Retained any oak, cut all spruce, balsam fir and red maple regardless of merchantability. Retain 3% by acreage through transition zone protection on the south side and east end of this stand. Western edge has had trouble regenerating.
66	6112 - Lowland Aspen	Sapling Well	33.9	16	1-50	Cut in 2002. Regenerating well. Low terrain with various rocky higher areas.
67	6122 - Black Spruce	Poletimber Well	8.5	70	141-170	This is a semi-upland lowland spruce stand that is long and narrow in nature. The south end of the stand contains a small patch of A6/F6. It is providing a north-south corridor for wildlife travel. North and south areas of stand contain smaller diameter and lower basal areas as opposed to central area that has been prepared for sale under the name Camp Hope Combo.
68	4130 - Aspen	Sapling Well	29.4	18	1-50	Young 2 stick aspen with variable upland and lowland terrain.
69	4319 - Mixed Upland Forest	Poletimber Well	8.3	83	81-110	Stand is a buffer along the Wild West Creek. Includes some remnant Jack, White, and Red Pine. Poor quality red maple along with stressed old paper birch. Balsam fir at risk with SBW. Understory becoming very dense with Balsam Fir regeneration.

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Gwinn Mgt. Unit

Report 7 – Forested Stands

Compartment: 237  
Year of Entry: 2020



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	6122 - Black Spruce	Poletimber Well	4.8	60	111-140	A retention area for adjacent timber sale, 32-119-16-01 Brad's Bear Aspen. This sale was harvested early due to spruce bud worm the treatment was approved though chapter 7. Relict Red Pine and White Pine on the edges.
75	4130 - Aspen	Poletimber Medium	16.5	40	81-110	Mostly 4 some 5 stick Aspen. Significant mortality from fire. Heavy amount of cankers and girdling. Stand is multiple clusters of trees.
76	4130 - Aspen	Poletimber Well	9.6	40	81-110	Adjacent to stand 45 fire. Poor health and form with heavy girdling and cankers. 4-5 stick aspen. Southeastern portion of stand is more mature with 5-6 stick trees.





Stand	Cover Type	Acres	Managed Site	General Comments:
1	330 - Low-Density Trees	45.0		Stand was harvested by J. Carey Logging Inc. under 32-119-16-01 Brad's Bear Aspen. This sale was harvested early due to spruce bud worm. The treatment was approved through chapter 7 process.
3	122 - Road/Parking Lot	5.9	No	Flat Rock Road, Co. Rd. CAA
6	622 - Lowland Shrub	28.1	No	Wild West Creek riparian area.
9	3301 - Low Density Deciduous Tree	14.5		Harvested in 2012: TS# 32-106-10-01. Stand trenched in 2017. Most remaining birch is dead or dying.
19	622 - Lowland Shrub	15.2	No	Flat Rock Creek Corridor
25	500 - Water	0.6	No	
27	622 - Lowland Shrub	18.9	No	Flat Rock Creek corridor. Multiple meanders within the stream.
33	622 - Lowland Shrub	15.8	No	
39	622 - Lowland Shrub	10.2	No	Buffer along Flat Rock Creek corridor.
44	6224 - Treed Bog	3.0	No	
45	330 - Low-Density Trees	47.3		Site of a past fire. Excessive mortality and blowdown of Aspen that originated in 1985. Numerous scattered islands of aspen. Northern area retained more aspen and may be feasible for salvage.
63	6224 - Treed Bog	36.7	No	
65	622 - Lowland Shrub	5.1	No	Opening with small creek that flows to Wild West Creek.
400	3303 - Mixed Low Density Trees	8.2	No	Part of old sharptail grouse opening. AREA KGD AND ROLLER CHOPPED FALL OF 1978. PREVIOUSLY BURNED IN 1965 AND 1972.
401	3303 - Mixed Low Density Trees	9.4	No	
402	310 - Herbaceous Openland	2.3	No	Old ELF ROW.
403	790 - Other Bare/Sparsely Vegetate	3.2	No	Old ELF ROW.



Stand	Cover Type	Acres	Managed Site	General Comments:
405	310 - Herbaceous Openland	2.3	No	
406	3102 - Grass	1.3	No	
407	3102 - Grass	1.6	No	OPIC - FMD: OI Stand Year Origin was
408	3102 - Grass	2.9	No	
409	3102 - Grass	3.0	No	
410	310 - Herbaceous Openland	2.0	No	
411	3102 - Grass	3.0	No	
412	3102 - Grass	4.4	No	
413	3102 - Grass	4.4	No	
416	3102 - Grass	3.7	No	Opening was acquired as part of land exchange in 1999.