



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32028

Entry Year 2017

Acreage: 2,007

County Marquette

Management Area: Dead Horse Moraines

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**Revision Date:** 2015-07-29

**Stand Examiner:** Dan McNamee

**Legal Description:**

T44N R24W Section(s) 25, 26, 34-36

**Identified Planning Goals:**

To maintain and enhance the sustainability of the forest and its associated communities.

**Soil and topography:**

Level swamps and wetland drainages with a small amount of upland flats.

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

About 50% of the compartment is privately owned land used primarily for hunting and timber production. Compartment includes the village of McFarland.

**Unique Natural Features:**

See Natural Features Inventory

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

None identified.

**Special Management Designations or Considerations:**

Potential for eagle, osprey, and great blue heron rookery. Potential for moose and wolf.  
Potential for calypso orchid, Ram's-head orchid, and rayless mountain ragwort in mixed conifer swamps.

**Watershed and Fisheries Considerations:**

Headwaters of a Mud Creek tributary and Rapid River flow through the compartment.

**Wildlife Habitat Considerations:**

Compartment 28 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

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

Surface sediments consist of medium-textured glacial till and peat and muck. Glacial drift is thin in the area. Sand and gravel potential is considered poor. The Ordovician Black River and Prairie du Chien groups subcrop below the glacial drift. These formations are quarried for stone. There is a quarry located in Section 25, and there may be additional crushed stone potential. Abandoned iron mines are located seven miles to the northwest. This State land has not been previously leased for metallic mineral exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Co Rd RM provides main access, with private roads accessing the interior of the compartment.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Limited, due to access and cover types.

**Fire Protection:**

Low risk area.

**Additional Compartment Information:**

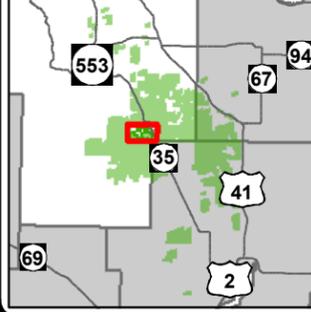
The following reports from the Inventory are attached:

- 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**

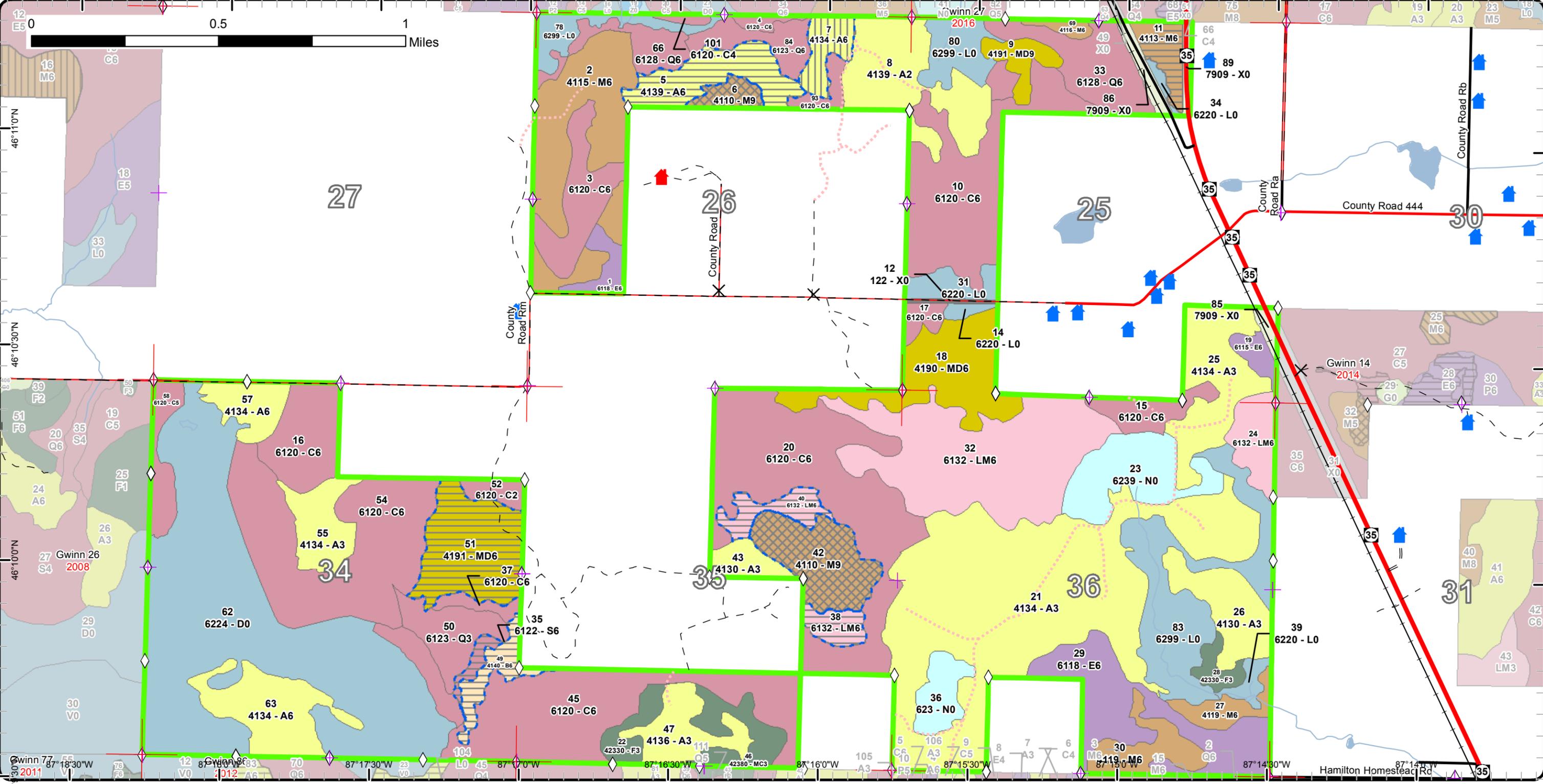
# Cover Type & Treatments



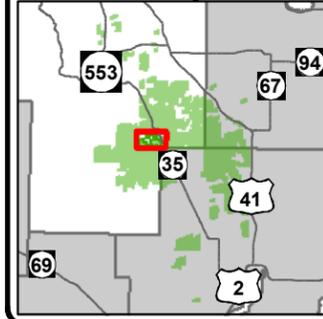
Compartment: 28  
 T44N,R24W, Sec. 25,26,34,35,36  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2017  
 Acres: 2007 GIS Calculated  
 Examiner: Dan McNamee  
 Map Revised: 7/31/2015  
 Map Phase: Pre-Review

- ✚ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- ⋯ Closed Roads
- ✕ Gate
- 🏠 Cabin
- 🏠 House
- Railroads
- Rivers
- Lakes
- ▨ Treatments with Site Conditions
- ▨ Treatments
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Shelter Wood (w/Reserves)

- Forest Covertypes**
- 411 - Northern Hardwood
  - 413 - Aspen
  - 414 - Other Upland Deciduous
  - 419 - Mixed Upland Deciduous
  - 423 - Other Upland Conifers
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Covertypes**
- 622 - Lowland Shrub
  - 623 - Emergent Wetland
  - 790 - Other Bare/Sparsely Vegetated
  - 122 - Roads/Parking Lot

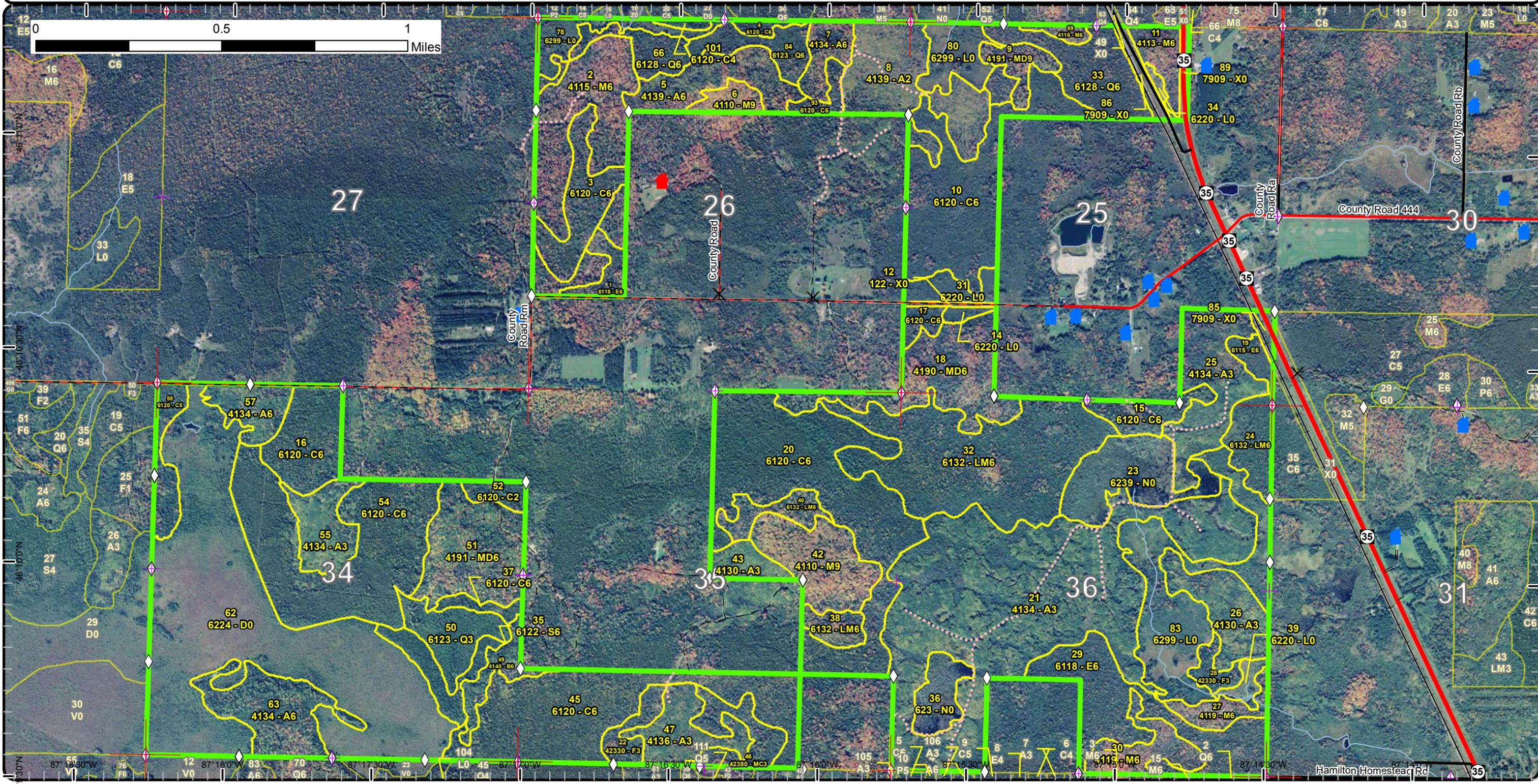


# Stand Boundary Map



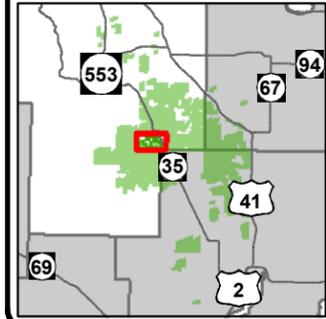
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# Special Conservation Areas & Site Conditions Map

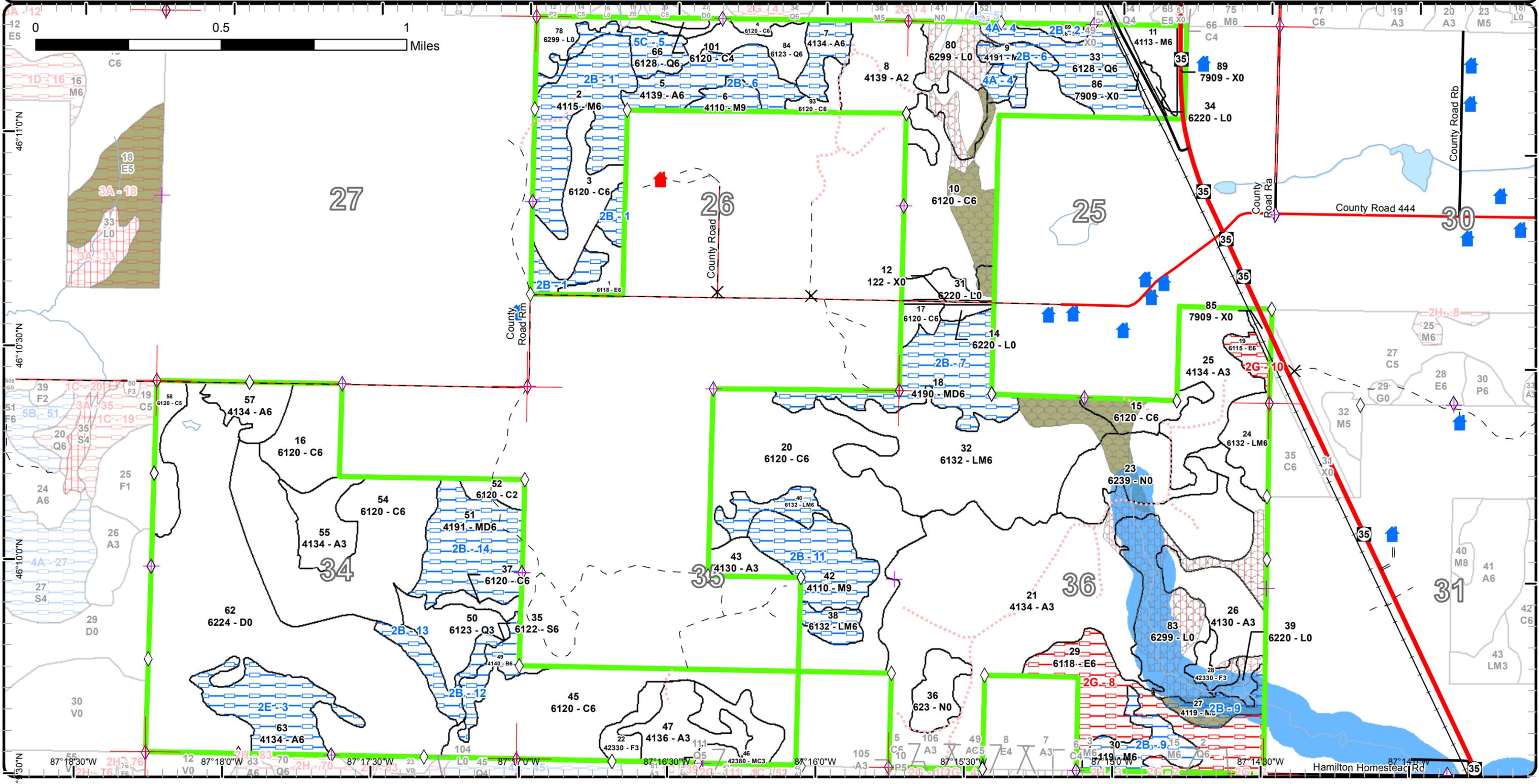
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- County Poor Dirt Roads
- Closed Roads
- ✕ Gate
- 🏠 Cabin
- 🏠 House
- Railroads
- Rivers
- Stand Boundaries
- Reviewable SCAs (dq)
- Recommendation
- SCA Removal
- Site Condition
- Available w/ Constraints

- Unavailable
- Available Factors W/ Constraints
- 2B: Unknown if access through adjacent landowner(s) is possible
- 2E: Road needed
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality

- Unavailable Factors
- 2G: Too wet (sensitive soils, does not include access issues)
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



# Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 28

Year of Entry 2017

Dan McNamee : Examiner



## 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	51	83	260	17	42	0	0	0	38	0	0	0	0	0	0	0	0	491
Bare/Sparsely Vegetated	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Cedar	0	0	0	0	0	0	0	0	0	0	6	313	163	0	0	0	0	0	482
Lowland Conifers	0	0	0	0	0	16	0	0	22	16	0	37	0	0	0	0	0	0	91
Lowland Deciduous	0	0	0	0	0	0	0	9	0	56	6	0	0	0	0	0	0	0	71
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	21	123	0	0	0	0	0	144
Lowland Shrub	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	15
Marsh	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	0	0	0	0	0	0	0	11	47	0	49	0	0	0	0	0	0	0	107
Northern Hardwood	0	0	0	0	0	0	0	0	19	79	59	0	0	0	0	0	0	0	157
Paper Birch	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Treed Bog	219	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	219
Upland Conifers	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Spruce/Fir	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>402</b>	<b>51</b>	<b>118</b>	<b>260</b>	<b>17</b>	<b>58</b>	<b>12</b>	<b>20</b>	<b>103</b>	<b>189</b>	<b>120</b>	<b>371</b>	<b>286</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2007</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 28

Total Compartment Acres: 2,007

Commercial Harvest - 10  
 Harvests with Site Condition - 170  
 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	29	0	0	0	13	0	0	0	0	42
Lowland Mixed Forest	21	0	0	0	0	0	0	0	0	21
Lowland Spruce/Fir	4	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	47	0	0	0	0	0	0	0	0	47
Northern Hardwood	10	44	0	0	0	0	0	0	0	54
Paper Birch	12	0	0	0	0	0	0	0	0	12
<b>Total</b>	<b>123</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>179</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	179	0	0	0	0	0	0	0	0	179
Next Step	0	0	0	0	0	179	0	0	0	179
<b>Total</b>	<b>179</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>179</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>359</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
5	32028005-Cut	29.4	4139 - Aspen, Mixed Deciduous	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Harvest all aspen, paper birch, balsam fir and most red maple. Use multiple patch retention within, retaining clumps of 10-15 trees.

Specs:

Next Step

Treatments:

Acceptable Aspen with paper birch, red maple and some conifers.

Regen:

Other Access will be required through Dennis and Dean Carlyon property. Contact info on file. Prepare with stands 6 and 7. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

6	32028006-Cut	7.9	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Thin stand to 70-90 BA using marking guidelines. Create some canopy gaps, where appropriate, to allow some of the established regeneration

Specs: to grow.

Next Step

Treatments:

Acceptable Sugar maple, red maple and a component of aspen, fir or other trace northern hardwood species which may be present.

Regen:

Other Access required through Dennis and Dean Carlyon property. Set-up with stands 5 and 7. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

7	32028007-Cut	12.5	4134 - Aspen, Spruce/Fir	Poletimber Well	48	51-80	Harvest	Shelterwood	4116 - Mixed N. Hardwood - Aspen	Uneven-Aged	Proposal
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Remove all aspen, balsam fir and mark any paper birch, red maple to cut. Stand was recently thinned, but little to no aspen was harvested at that time. May be possible to identify and re-use old retention patches, which contained lowland species with cedar; otherwise, create retention patches within, which should include birch. Also leave retention along stand 93.

Specs:

Next Step

Treatments:

Acceptable Aspen, fir, red maple, paper birch and a component of other mixed conifers.

Regen:

Other Access required through Dennis and Dean Carlyon property - contact info on file. Set-up with stands 5 and 6. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

11	32028011-Cut	9.5	4113 - R.Maple, Conifer	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	Proposal
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**Habitat Cut: No**      **Site Condition:**

Prescription Mix of high and low grounds. Harvest all aspen, balsam fir, black spruce, tamarack. Leave all cedar, yellow birch, black cherry, white pine, if they exists. Where nicer red maple stems are present, mark some leave trees/crop trees and harvest remainder. Leave some white spruce, if healthy. Leave low ground in NW portion of the stand as retention.

Specs:

Next Step

Treatments:

Acceptable mixed hardwood, aspen and a component of conifers

Regen:

Other Prepare with 2016 POW to the north (C. 27 stand 68) to create marketable sale. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2015



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
35	32028035-Cut	4.1	6122 - Black Spruce	Poletimber Well	74	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Proposal

**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Harvest all areas with merchantable spruce, tamarack where access against stand 49 is possible. Leave any cedar. No other retention due to  
Specs: small portion of stand being treated; remainder of stand will provide seed source for regeneration.

Next Step  
Treatments:

Acceptable Black spruce, tamarack, cedar  
Regen:

Other Access is required through Gary Kivioja and possible Richard Brown. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

38	32028038-Cut	8.8	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	106	81-110	Harvest	Clearcut with Retention	6132 - Mixed Lowland Forest with Cedar	Even-Aged	Proposal
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Harvest all red maple, aspen, fir and spruce. Harvest most paper birch, retaining some, where possible, either by leave tree marking or in  
Specs: retention patches. Leave retention patches where cedar is heavy; also leave any cedar, yellow birch throughout.

Next Step  
Treatments:

Acceptable Balsam fir, spruce, red maple, aspen and paper birch with component of ash, yellow birch and cedar.  
Regen:

Other Access required through Gary Kivioja property. Treat with stands 40, 42. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

40	32028040-Cut	12.0	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	106	81-110	Harvest	Clearcut with Retention	6132 - Mixed Lowland Forest with Cedar	Even-Aged	Proposal
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Harvest all red maple, paper birch, aspen, fir and spruce. Leave retention patches where cedar is heavy; also leave any cedar, yellow birch  
Specs: throughout.

Next Step  
Treatments:

Acceptable Balsam fir, spruce, red maple, aspen and paper birch with component of ash, yellow birch and cedar. red maple  
Regen:

Other Access required through Gary Kivioja property. Treat with stands 38,42. During sale prep, if it is found that cedar concentrations are too heavy  
Comment: within stand and too much harvesting damage would occur if included in treatment, then treatment should be dropped. Old next step comments:

Proposed Start Date: 10/1 /2016

42	32028042-Cut	36.2	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Selectively mark stand to 70-90 BA using marking guidelines. Some places will be lighter marking than others. Create and enlarge regeneration  
Specs: gaps where regeneration is present. Retain all hemlock and yellow birch.

Next Step  
Treatments:

Acceptable Mixed northern hardwoods with a component of softwoods.  
Regen:

Other Access required through Gary Kivioja property. Treat with stands 38,40. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
49 32028049-Cut	12.3	4140 - Other Upland Deciduous	Poletimber Well	54	81-110	Harvest	Clearcut	4137 - Aspen, Birch	Even-Aged	Proposal

**Habitat Cut: No****Site Condition: Unknown Access**

Prescription Harvest all aspen, paper birch, fir and spruce. Steep ridge - harvest what is accessible and leave remainder as retention.

Specs:Next StepTreatments:

Acceptable Aspen, birch, and a component of conifers

Regen:

Other Private access is required through Kivioja property. Treat with stands 35, 51 for marketability. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

51 32028051-Cut	46.7	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	77	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition: Unknown Access**

Prescription Harvest all aspen, fir, spruce and most red maple and paper birch, leaving some for diversity/seed, either within patches or individually marked

Specs: leave trees. Leave all white pine, cedar if present.

Next StepTreatments:

Acceptable Aspen, paper birch, red maple, spruce/fir and white pine

Regen:

Other Requires private access from Kivioja. Treat with stands 35 and 49. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment  
Acreage Proposed: 179.5**

## Report 5 – Site Conditions

Gwinn Mgt. Unit  
Dan McNamee : Examiner

Compartment: 28  
Year of Entry: 2017

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions				
		With Condition				2B	2E	4A	5C	2G
490	411	<b>80</b>		0	Aspen	<b>42</b>	<b>38</b>			
14	14	<b>0</b>		0	Bare/Sparsely Vegetated					
483	483	<b>0</b>		0	Cedar					
91	38	<b>53</b>		0	Lowland Conifers			<b>37</b>	<b>16</b>	
71	9	<b>0</b>		62	Lowland Deciduous					62
144	124	<b>21</b>		0	Lowland Mixed Forest	<b>21</b>				
115	115	<b>0</b>		0	Lowland Shrub					
15	0	<b>15</b>		0	Lowland Spruce/Fir	<b>15</b>				
52	52	<b>0</b>		0	Marsh					
107	0	<b>107</b>		0	Mixed Upland Deciduous	<b>107</b>				
157	12	<b>145</b>		0	Northern Hardwood	<b>145</b>				
12	0	<b>12</b>		0	Paper Birch	<b>12</b>				
219	219	<b>0</b>		0	Treed Bog					
18	18	<b>0</b>		0	Upland Conifers					
17	17	<b>0</b>		0	Upland Spruce/Fir					
2	2	<b>0</b>		0	Urban					
2,007	1,512	<b>432</b>		62	Total Forested Acres	<b>342</b>	<b>38</b>	<b>37</b>	<b>16</b>	62
	75%	<b>22%</b>		3%	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	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	67	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access has been granted in the past through Dupey lands (west side). Possible access also through Carlyon lands (east side).							
2	Available	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet stand.							

## Report 5 – Site Conditions

Gwinn Mgt. Unit  
Dan McNamee : Examiner

Compartment: 28  
Year of Entry: 2017

3	<b>Available</b>	<b>2E: Road needed</b>	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> (from Compartment 86 stand 83 notes) "Access to stand is almost impossible, it is a winter job, with a long snow plow on poor dirt roads to get to the compartment, then more plowing to get across the compartment on two track skid trails, then new roads to build, culverts to install across wet swampy stands that the beaver have flooded. Plus the terrain in the stand is hilly, with wet areas scattered about in the stand."							
4	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	61	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access through Dennis and Dean Carlyon, who have granted permission in the past.							
7	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	49	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access required through private landowner Marvin Connors.							
8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	56	2B: Unknown if access through adjacent landowner(s) is possible	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Gwinn Mgt. Unit  
Dan McNamee : Examiner

Compartment: 28  
Year of Entry: 2017

9	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access required through Dennis Laine property.							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	57	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access required through private landowner Gary Kivioja.							
12	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Private access required through Gary Kivioja and possibly Richard Brown lands. Some areas may be too steep to treat also.							
13	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Private access required through Gary Kivioja and possibly Richard Brown property.							
14	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Access required through Gary Kivioja property.							

**Report 6 – 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
<b>C. 28 Removal 1</b> <b>Comments</b> L LOW WET TAG ALDER. BMP's will protect.	Other SCA		<b>SCA Removal</b>	13
<b>C. 28 Removal 10</b> <b>Comments</b> BMP's will protect. F5M4, wet areas to cross to get to stand, leave for buffer along creek.	Potential Old Growth		<b>SCA Removal</b>	3
<b>C. 28 Removal 2</b> <b>Comments</b> Not old growth.	Potential Old Growth		<b>SCA Removal</b>	3
<b>C. 28 Removal 3</b> <b>Comments</b> BMP guidelines will protect.	Other SCA		<b>SCA Removal</b>	6
<b>C. 28 Removal 4</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	17
<b>C. 28 Removal 5</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	1
<b>C. 28 Removal 6</b> <b>Comments</b> Not old growth	Potential Old Growth		<b>SCA Removal</b>	21
<b>C. 28 Removal 7</b> <b>Comments</b> Protected by riparian SCA	Potential Old Growth		<b>SCA Removal</b>	3
<b>C. 28 Removal 8</b> <b>Comments</b> LOW WET TAG ALDER. BMP's and riparian SCA will protect.	Other SCA		<b>SCA Removal</b>	66
<b>C. 28 Removal 9</b> <b>Comments</b> Access from south across wet areas. Leave for buffer along the creek. BMP's will protect.	Potential Old Growth		<b>SCA Removal</b>	5



## Report 7 – 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:
1	6118 - Lowland Deciduous with Cedar	Poletimber Well	8.9	68	81-110	OPIC - FMD: E5Q5 NEXT TO RD 444 SMALL 2-STICK CEDAR AND ASH. 2015: Pockets of cedar with overmature balsam poplar and fir, ash, red maple. Lots of ash, red maple regeneration.
2	4115 - Y.Birch, Hemlock NH	Poletimber Well	66.8	85	51-80	OPIC - FMD: FAIR RED MAPLE, WAS PUT UP FOR SALE, # 8-97-1, CONTRACTOR DIDN'T CUT IT. SALE WAS CLOSED. Stand harvested as "Swampbuck Hardwoods" #007-07 - Feb/March, 2011 (unit 3 and 2). Trace amount of black cherry, white pine, spruce present. Regeneration mainly stump sprouts.
3	6120 - Lowland Cedar	Poletimber Well	27.8	106	111-140	More cedar than hemlock. A few scattered hemlock, cedar seedlings along edge into stand 2. Trace amount of white pine. Quite a bit of red maple.
4	6120 - Lowland Cedar	Poletimber Well	3.3	106	1-50	Cedar with ash, fir. Cedar is in large pockets with smaller pockets containing the ash, fir.
5	4139 - Aspen, Mixed Deciduous	Poletimber Well	29.4	48	51-80	OPIC - FMD: A5M4F4, CUT 1975. Mix of aspen, red maple, paper birch and fir. Timber is mature to overmature (40 - 54 yrs old) - NENW portion cut under permit #17-70 from 1971-1975, with NENE portion cut under permit(s) #15/60 and 14/63. Treat as one stand now.
6	4110 - Sugar Maple Association	Sawtimber Well	7.9	95	111-140	OPIC - FMD: Cut next treatment period with stand 5. BETTER TREES ON WEST SIDE, Winter job, access across pvt. Wet area to cross to get to stand. 2015: North portion contains some large diameter aspen. Lots of balsam fir in the understory. Pockets of maple regeneration that are getting above deer, but most has been browsed.
7	4134 - Aspen, Spruce/Fir	Poletimber Well	12.5	48	51-80	OPIC - FMD: M5A4B4F4Q4. Mix of aspen, red maple, fir with some paper birch. Aspen is mature; fir is dying - should treat now. Was treated under "RT Special" sale (unit 4) #008-07 in Jan, 2009 and 2010. Most aspen was not harvested at that time to maintain BA.
8	4139 - Aspen, Mixed Deciduous	Sapling Medium	50.5	6	Immature	OPIC - FMD: F2F1M1, Cut prmt# 08-07-01, in 2009-2010 - "RT Special". Aspen, red maple saplings with residual 1 stick maple, fir and cedar - residual cedar is heavier, in places..
9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.8	68	81-110	OPIC - FMD: A6F4M4, Small island of upland surrounded by wet area. Pockets with aspen, pockets with red maple; heavy balsam fir throughout. Winter access only.
10	6120 - Lowland Cedar	Poletimber Well	72.5	106	1-50	OPIC - FMD: E4E2 LOW WET; PROBABLY NEVER BE OPERABLE. 2015: Predominately cedar with small diameter ash, fir and spruce. Pockets of upland maple/fir scattered.
11	4113 - R.Maple, Conifer	Poletimber Well	11.7	85	81-110	OPIC - FMD: E6E7Q4 POOR QUALITY, MOSTLY R MAPLE, SOME LOGS. WET. 2015: Treat with stand to the north (2016 POW).



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	6120 - Lowland Cedar	Poletimber Well	13.8	117	51-80	OPIC - FMD: E5E1L ONLY A FEW PATCHES OF MERCH TIMBER ON LOW KNOBS. 2015: Narrow ridge of maple, aspen, fir in center of stand - too small to separate out as stand.
16	6120 - Lowland Cedar	Poletimber Well	30.1	113	51-80	Nice cedar - patches of tamarack, spruce and individual scattered tamarack, spruce. Paper birch scattered throughout. Cedar regeneration in understory, anywhere from 2 - 10' tall.
17	6120 - Lowland Cedar	Poletimber Well	5.6	110	51-80	Mix of cedar, ash, fir and balsam poplar along county road.
18	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	49.3	95	81-110	"Findley Farm Block" #009-87-1, cut 1991-1993, removing aspen, spruce/fir, cedar and some white pine. All hardwood, birch, hemlock left. 2015: Far west pocket contains overmature aspen; also red maple, paper birch, fir. Thin strip along private line (south) is red maple, fir, cedar. Cedar is upland cedar and occurs in pockets and individual trees. Small drainage 2-3 chains wide separates the two high ground maple areas.
19	6115 - Lowland Ash	Poletimber Well	6.4	95	51-80	OPIC - FMD: E4L LOW, WET NON-PRODUCTIVE. 2015: predominately ash; cedar and fir scattered throughout.
20	6120 - Lowland Cedar	Poletimber Well	112.6	113	81-110	Poor quality cedar. Some ash, maple, birch, spruce scattered throughout and some in pockets. Lots of the ash is unmerchantable. Better quality cedar on the south end below stand 38.
21	4134 - Aspen, Spruce/Fir	Sapling Well	218.4	25	Immature	OPIC - FMD: CUT, PERMIT #020-87-1 "McFarland Aspen" - cut 1988 - 1991. Aspen on higher ground, balsam poplar on lower grounds - both with fir understory. Numerous drainages, some flooding of timber due to adjacent beaver activity.
22	42330 - Upland Fir	Sapling Well	10.4	14	1-50	OPIC - FMD: M4 , CUT PRMT#007-97-01. Some fir and aspen coming in under the maple. Residual cedar.
24	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	17.5	110	51-80	Mix of cedar and ash with red maple - ash is small, red maple is scattered. Some flooding of timber.
25	4134 - Aspen, Spruce/Fir	Sapling Well	41.6	25	Immature	OPIC - FMD: CUT, PERMIT #020-87-1 "McFarland Aspen" - cut 1988-91. Aspen on higher ground, balsam poplar on lower grounds - both with fir understory. Numerous drainages, some flooding of timber due to adjacent beaver activity.
26	4130 - Aspen	Sapling Well	28.0	14	Immature	OPIC - FMD: A3, CUT PRMT. #9-97-01 "Bailey's Camp Block". Cut winter 2000 and winter 2001.
27	4119 - Mixed Northern Hardwoods	Poletimber Well	11.1	95	111-140	OPIC - FMD: POG. ACCESS FROM SOUTH across wet areas; leave for buffer along the creek. The stand is a lot like stand 30. It is mostly red maple with other spp.
28	42330 - Upland Fir	Sapling Well	6.9	14	Immature	"Bailey's Camp Block" #009-97 - harvested winter 2000 and winter 2001. This has good regeneration of balsam fir with some open areas.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	6118 - Lowland Deciduous with Cedar	Poletimber Well	56.1	87	51-80	Ash is dead or dying. Very wet. Places where it is heavier to cedar and red maple, ash and fir are mixed in. Places where ash is heavy and red maple, cedar, and balsam fir is mixed in.
30	4119 - Mixed Northern Hardwoods	Poletimber Well	19.3	76	111-140	OPIC - FMD: FAIR TO POOR QUALITY. Very wet areas to cross to get to the stand. 2015: Almost pure red maple with other spp. mixed in.
32	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	106.1	111	81-110	Most of the ash is small diameter 3-7" dbh; some 7" +, but not much. Balsam fir, yellow birch and red maple are mature. Cedar is found throughout - some times in heavy clumps and some times scattered with mainly ash. Wet area surrounded by wet.
33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	36.8	106	51-80	OPIC - FMD: E4E2 LOW WET BLACK ASH PROBABLY NEVER BE OPERABLE. 2015: Lots of 2-3" ash that is not merchantable. Heavy to cedar. Small island of upland in east portion of stand.
35	6122 - Black Spruce	Poletimber Well	15.0	74	51-80	OPIC - FMD: S4S3 ALMOST A BOG.
37	6120 - Lowland Cedar	Poletimber Well	5.1	106	1-50	OPIC - FMD: S4S3 ALMOST A BOG; CK IN 30 YRS. Small area of cedar in transition from high ground to low.
38	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	8.8	106	81-110	OPIC - FMD: F4M4Q4, WET AREAS. 2015: Mix of every thing. Possibly clearcut leaving patches where cedar is heaviest.
40	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	12.0	106	81-110	OPIC - FMD: F4M4Q4, WET AREAS. 2015: Mix of every thing. Possibly clearcut leaving patches where cedar is heaviest.
42	4110 - Sugar Maple Association	Sawtimber Well	36.2	95	111-140	OPIC - FMD: Cut prmt.#007-97-01 "Turin Tower Block" - thinned 2000-2001. 2015: Nice maple stand. Trace amounts of hemlock, yellow birch and ironwood. There are places where the sugar maple regen is 15-20' tall, but most of it is 2-3' tall and browsed.
43	4130 - Aspen	Sapling Well	10.6	14	Immature	OPIC - FMD: A3, CUT prmt.# 007-97-01, 1/2-1" dbh 10-15 ft tall. 2015: Fully stocked aspen with scattered balsam fir and red maple through out. Understory is heavy to balsam fir. This stand will be ready to cut in ~30 years.
45	6120 - Lowland Cedar	Poletimber Well	87.3	106	81-110	OPIC - FMD: Q5Q3E4 SMALL TREES,GOOD STOCKING. Primarily Cedar with some fir, spruce paper birch and ash.
46	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	18.1	14	Immature	OPIC - FMD: CUT PRMT#007-97-01 - cut 2000-2001. Coming back to balsam fir and spruce where it was cut heavy. Cedar is the residual.
47	4136 - Aspen, Mixed Conifer	Sapling Well	23.5	14	Immature	OPIC - FMD: CUT PRMT#007-97-01 "Turin Tower Block" - winter 2000 and 2001. 2015: Some pole sized red maple was left scattered throughout the stand (10"dbh, 5 stick). Cedar regeneration can be found in some areas.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4140 - Other Upland Deciduous	Poletimber Well	12.3	54	81-110	OPIC - FMD: A5F4 , RIDGE ABOVE BOG. 2015: Most of the mature balsam fir is dead. Lots of white birch 5-7" dbh. It gets steep and there is a ridge on the west side of the stand.
50	6123 - Lowland Fir	Sapling Well	22.0	74	1-50	OPIC - FMD: S4S3 ALMOST A BOG BUT GROWING. 2015: Small diameter timber - mix of lowland conifer. The edge of this stand, which has merchantable tamarack and spruce, butts up next to stands 51 and 35, which could be cut when these stands need to be cut.
51	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	46.7	77	81-110	OPIC - FMD: A5M4F4A2 RESID FIR + MAPLE LEFT 1966,PATCHES A3,HOLD 10 YRS. 2015: Nice aspen, red maple, paper birch, and lower ground contains nice spruce. T. sale #20/67A - cut 1968 and #001-53.
52	6120 - Lowland Cedar	Sapling Medium	6.3	90	51-80	OPIC - FMD: MOSTLY TAG ALDER. 2015: Small cedar with black ash, balsam fir and tagalder.
54	6120 - Lowland Cedar	Poletimber Well	95.4	103	81-110	OPIC - FMD: TAG ALDER,AVE DBH 4" CEDAR,ASH,FIR. 2015: Mostly 5-7" DBH cedar with small diameter ash, red maple. A few paper birch and spruce scattered throughout the stand.
55	4134 - Aspen, Spruce/Fir	Sapling Well	21.4	14	Immature	OPIC - FMD: F2A2, WET ALL AROUND STD. 2015: Permit #007-97 "Turin Tower Block" - cut 2000-2001. Fully stocked aspen stand with patches of 1-3 stick balsam fir and an occasional cedar.
57	4134 - Aspen, Spruce/Fir	Poletimber Well	16.7	36	81-110	T. sale # 11/77A "McFarland Block" - cut 1977 - fall, 1978. Trace paper birch and tamarack. Some cedar along the border of the stand. Aspen ranges from 5-9" dbh, fir 3-8" dbh, and red maple 9-12" dbh. Tagalder on north end near edge of roadway.
58	6120 - Lowland Cedar	Poletimber Medium	14.4	106	1-50	OPIC - FMD: SPARSE AND TAG ALDER UNDERSTORY, AREA NEAR RD HAS BEAVER PROB. 2015: The north end of the stand is lowland and the south end is upland with some mature birch, red maple and balsam fir.
63	4134 - Aspen, Spruce/Fir	Poletimber Well	37.6	85	81-110	OPIC - FMD: A6 2015: Stand was suppose to be put up with stand 83 of compartment 86, which was never accomplished either, due to lack of resources, lack of time, poor access. Steep ridges with mostly aspen and fir with spruce pockets in the middle. Some white pine, paper birch, and red maple within, per old notes.
66	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.0	85	51-80	OPIC - FMD: OI Stand Year Origin was 1930. Stand has pockets of mature black spruce on the west and ash on the far west. Cedar is mainly through the center.
69	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	3.7	90	111-140	OPIC - FMD: M6F4A4 POOR ACCESS. 2015: Small upland area surrounded by a lot of wet area.
84	6123 - Lowland Fir	Poletimber Well	16.0	40	1-50	OPIC - FMD: OI Stand Year Origin was 1975. Fir, aspen, balsam poplar, with lots of young fir.

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Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 28  
Year of Entry: 2017



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
93	6120 - Lowland Cedar	Poletimber Well	6.2	106	81-110	OPIC - FMD: OI Stand Year Origin was 1892.
101	6120 - Lowland Cedar	Poletimber Poor	2.3	106	1-50	Cedar; areas that are more open contain small ash and fir.



Stand	Cover Type	Acres	Managed Site	General Comments:
12	122 - Road/Parking Lot	1.8	No	County Road RM and R.O.W.
14	6220 - Alder/willow	2.7	No	Lowland brush with scattered timber along County Road.
23	6239 - Mixed Emergent Wetland	37.4	No	Old beaver flooding. Dead cedar; tagalder.
31	6220 - Alder/willow	10.6	No	Lowland brush with scattered timber along County Road.
34	6220 - Alder/willow	1.9	No	Lowland brush with ash.
36	623 - Emergent Wetland	14.6	No	OPIC - FMD: E5Q4Q1 BARELY COMMERCIAL,CK 50 YRS SMALL STREAM FLOWS THRU NORTH. 2015: old beaver flooding - mostly dead wood and tag alder.
39	6220 - Alder/willow	5.2	No	OPIC - FMD: LOW WET TAG ALDER. 2015: Lowland brush; old beaver flooding.
62	6224 - Treed Bog	218.6	No	OPIC - FMD: S5S3 WELL-STOCKED 4-5" DBH,BOG-TYPE SITE. 2015: Mix of lowland, bog, small spruce. SW corner small spruce.
78	6299 - Lowland Shrub (OI)	15.0	No	OPIC - FMD: LOW WET TAG ALDER. 2015: Scattered spruce, cedar, fir on edges with black ash. Drainage within.
80	6299 - Lowland Shrub (OI)	17.6	No	OPIC - FMD: LOW WET TAG ALDER. 2015: Primarily lowland brush (tagalder) with some islands of timber and small, 1 stick ash scattered throughout. Old beaver flooding area.
83	6299 - Lowland Shrub (OI)	62.0	No	OPIC - FMD: LOW WET TAG ALDER. 2015: Primarily lowland brush with small ash ( 1 stick). Old beaver flooding?
85	7909 - Nonstocked (OI)	3.8	No	OPIC - FMD: M-35+ROW
86	7909 - Nonstocked (OI)	6.1	No	OPIC - FMD: OLD M-35 and RR ROW.
89	7909 - Nonstocked (OI)	4.0	No	OPIC - FMD: M-35 + ROW