



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32012

Entry Year 2017

Acreage: 1,367

County Marquette

Management Area: Dead Horse Moraines

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

**Stand Examiner:** Theresa Sysol

**Legal Description:**

T44N R23W Section(s) 21, 28, 33

**Identified Planning Goals:**

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

**Soil and topography:**

Level swamps and numerous wetland drainages with areas of upland flats and ridges.

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

Compartment land locked by private ownership on north, south and west borders; east side abuts State land. Hunting and some fishing opportunities.

**Unique Natural Features:**

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

No concerns identified. Old logging evidence throughout.

**Special Management Designations or Considerations:**

Potential for eagle, osprey, and great blue heron rookery. Potential for moose and wolf.

Potential for calypso orchid, rayless mountain ragwort and ram's head lady's-slipper in conifer swamps.

**Watershed and Fisheries Considerations:**

Rapid River tributary runs through sections 28 and 33, and Deer Creek runs through section 21

**Wildlife Habitat Considerations:**

Compartment 12 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. Glacial drift thickness appears to range from 0 to 25 feet in the area. The Ordovician Black River Group (and possibly some Trenton Group) subgroups below the glacial drift. This formation is quarried for stone/dolomite in other areas of the UP. A quarry is located three miles west in Section 25, T44N R24W, and potential appears to be good in the compartment. Sand and gravel potential for the area is poor, due to the thin glacial drift. Abandoned iron mines are located ten miles to the northwest. This compartment has not been leased for metallic mineral exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Limited access off of County Road 444, through private lands. Access from the south through private lands east of Lathrop in Delta County. Mainly winter access only.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Fairly restricted, due to access.

**Fire Protection:**

Low fire risk area.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

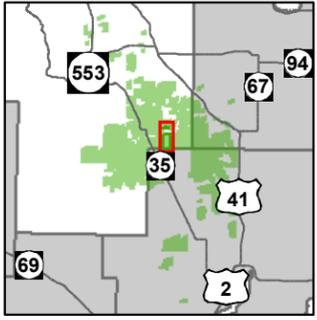
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

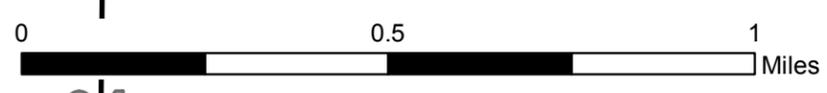
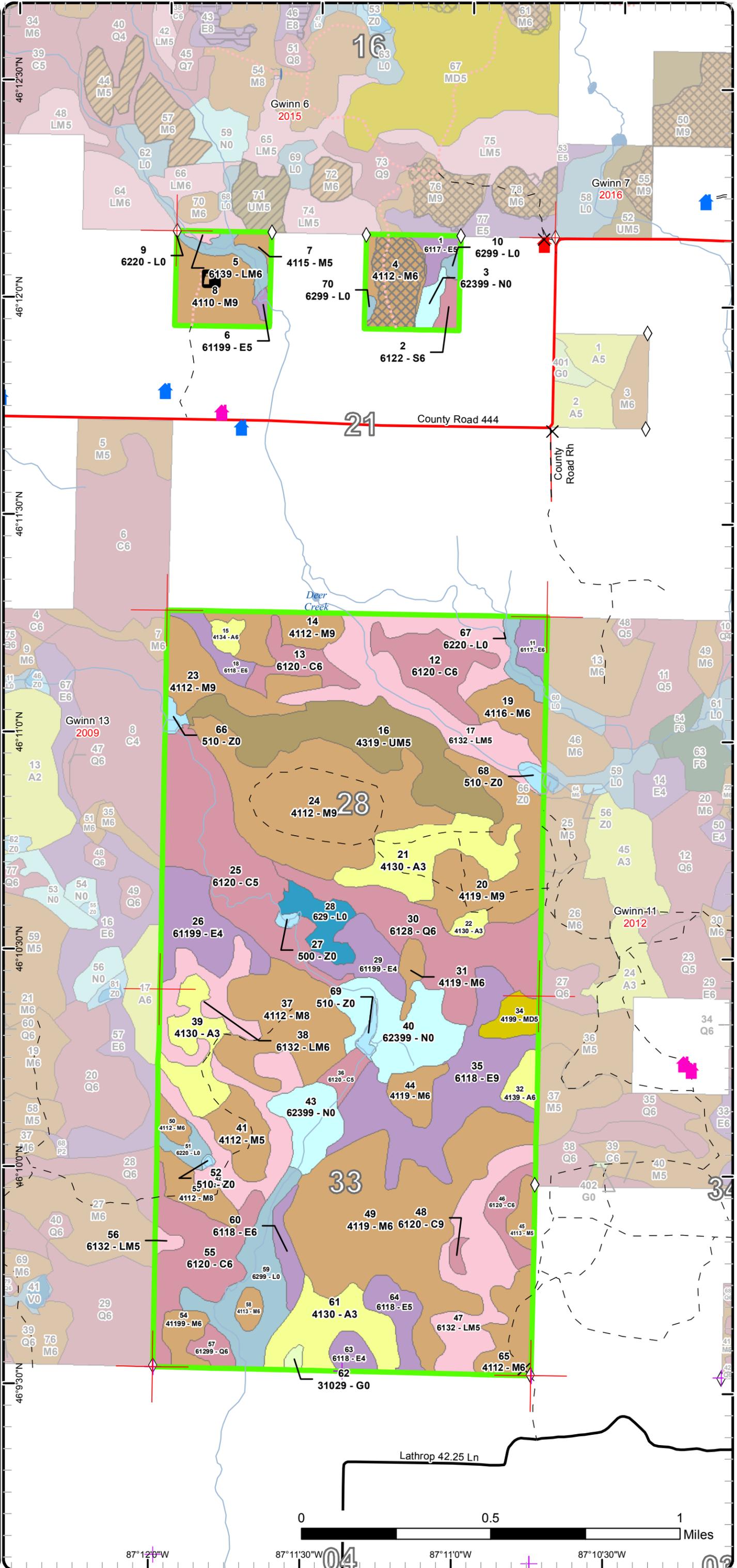
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments

Compartment: 12  
 T44N, R23W, Sections. 21, 28, 33  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Dead Horse Moraines  
 YOE: 2017  
 Acres: 1367 GIS Calculated  
 Examiner: Theresa Sysol  
 Map Revised: 7/30/2015  
 Map Phase: Pre-Review



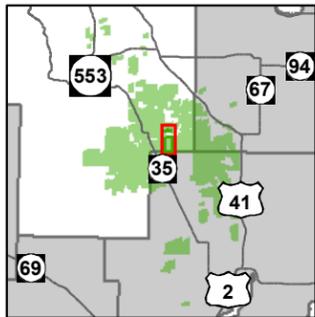
- ⊕ Remonumented Section Corner
- ◇ Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- ⋯ Closed Roads
- ⊗ Gate
- Culverts
- Rivers
- Lakes
- Treatments**
- ▨ Selection (Group, Single Tree)
- Forest Covertypes**
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertypes**
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland



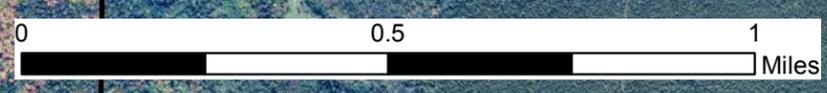
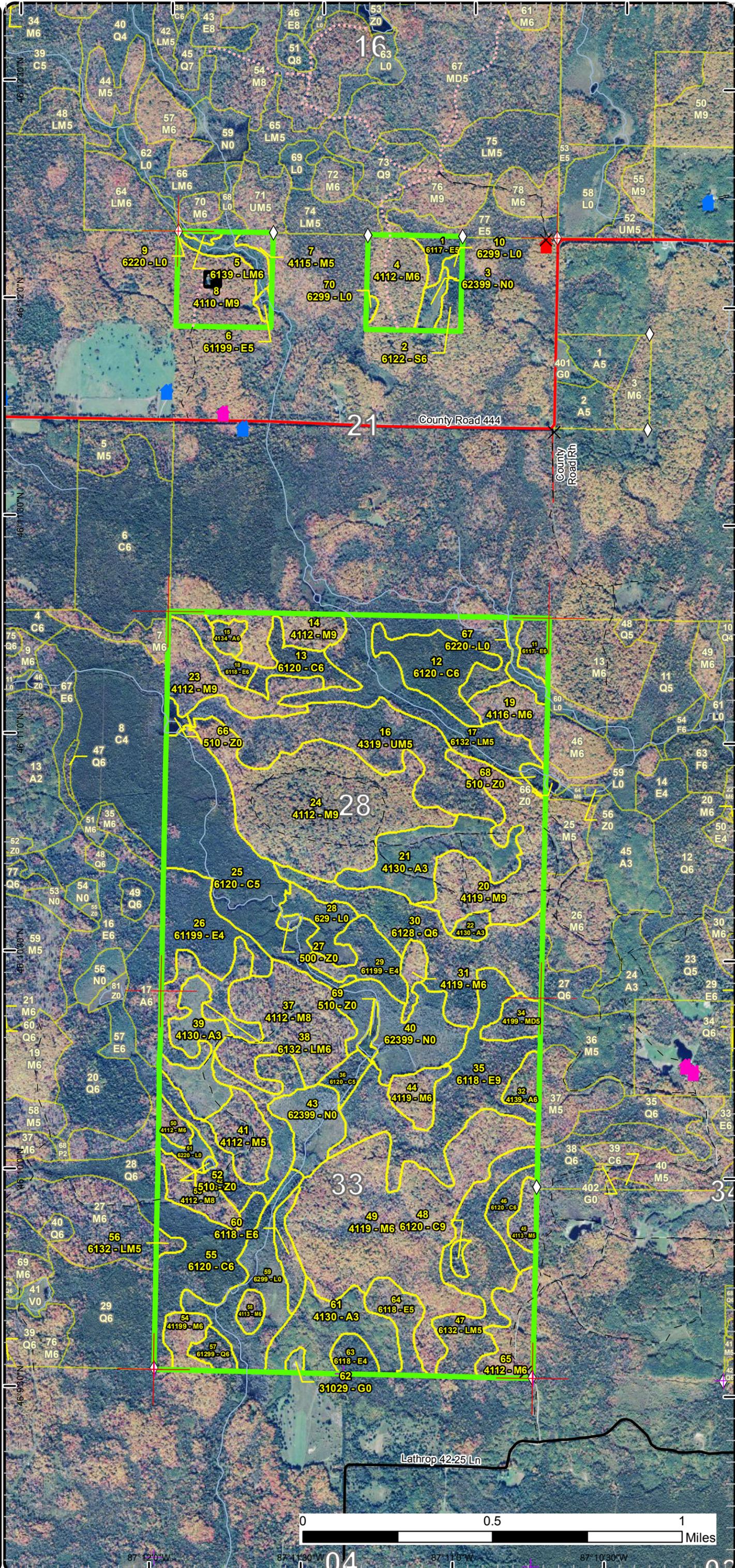
87°12'0"W      87°11'30"W      87°11'0"W      87°10'30"W

# Stand Boundary Map

Compartment: 12  
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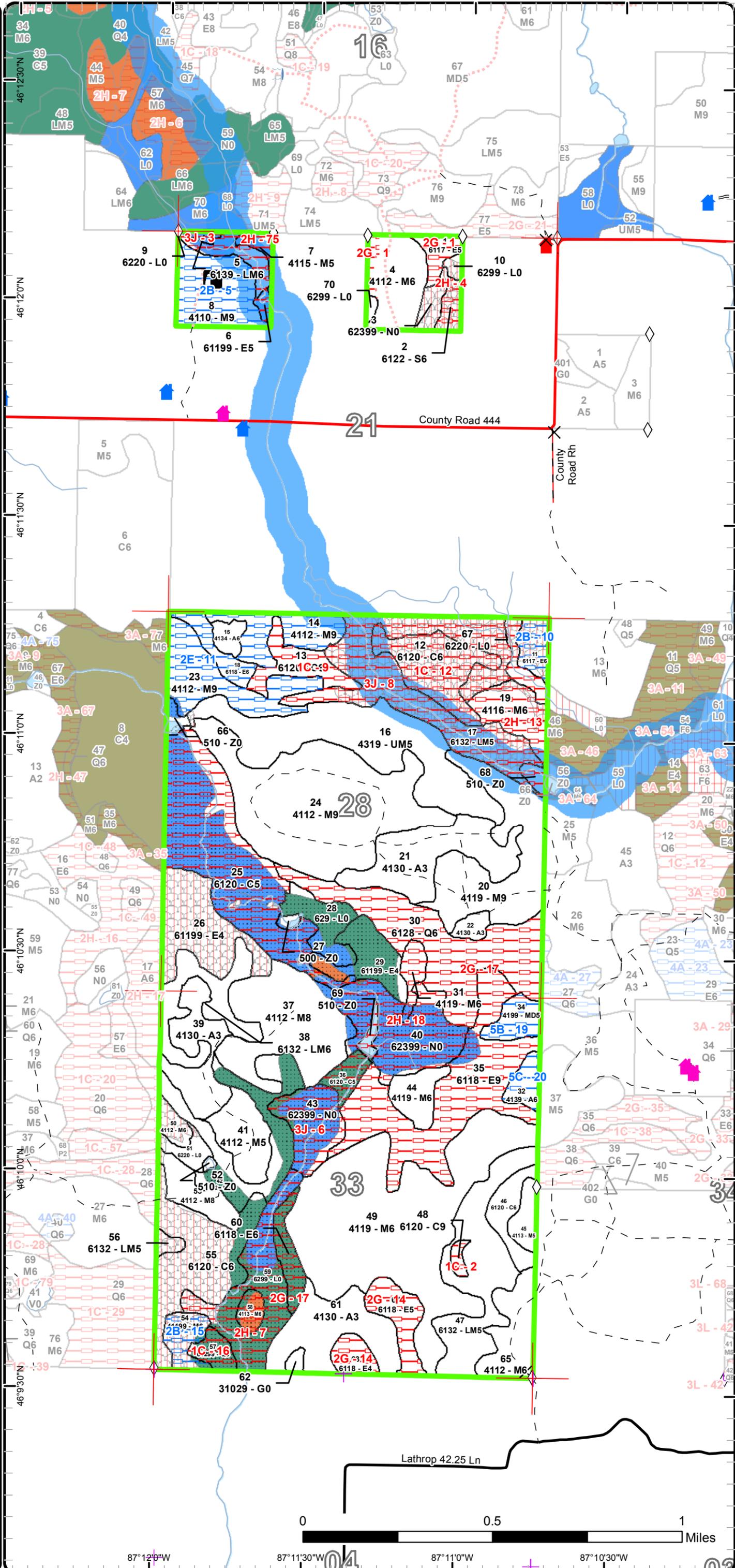
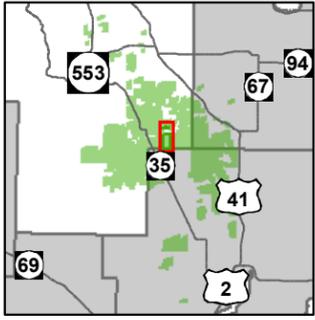
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  - ◇ Field Grade GPS Corners
  - Miris Corners
  - County Paved Roads
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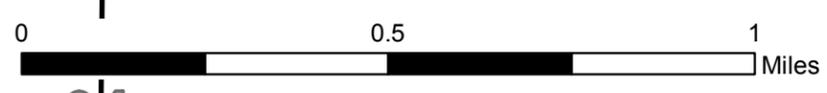
87°12'0"W 87°11'30"W 87°11'0"W 87°10'30"W

# Special Conservation Areas & Site Conditions Map

Compartment: 12  
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 Unit: Gwinn  
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 Acres: 1367 GIS Calculated  
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 Map Revised: 7/30/2015  
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- ✚ Remonumented Section Corner
- ◇ Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- ✕ Gate
- Culverts
- Rivers
- Stand Boundaries
- Reviewable SCAs (dq)
- Recommendation
- SCA
- 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
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Riparian Area
- Habitat Corridor
- Other Habitat Area



87°12'0"W 87°11'30"W 87°11'0"W 87°10'30"W

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

Gwinn Mgt. Unit

Compartment 12

Year of Entry 2017

Theresa Sysol : 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	22	70	0	0	0	4	0	0	7	0	0	0	0	0	0	0	0	103
Cedar	0	0	0	0	0	0	0	0	0	81	2	6	38	39	0	0	0	0	166
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	62
Lowland Deciduous	0	0	0	0	0	0	0	0	54	10	97	0	0	0	0	0	0	0	161
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	84	73	1	0	2	0	0	0	0	160
Lowland Shrub	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Marsh	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Northern Hardwood	0	0	0	0	0	0	0	0	0	82	142	0	0	0	0	0	0	282	506
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	62
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
<b>Total</b>	<b>136</b>	<b>22</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>54</b>	<b>269</b>	<b>447</b>	<b>7</b>	<b>38</b>	<b>41</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>282</b>	<b>1370</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 12

Total Compartment Acres: 1,367

Commercial Harvest - 18  
 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
Northern Hardwood		0	18	0	0	0	0	0	0	0	18
	<b>Total</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		18	0	0	0	0	0	0	0	0	18
Next Step		0	0	0	0	0	18	0	0	0	18
	<b>Total</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>37</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
4	32012004-Cut	18.4	4112 - Maple, Beech, Cherry Association	Poletimber Well	96	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Approved Proposal

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

Prescription Selectively mark stand, using hardwood marking guidelines, to 70-90 BA. Maintain stand diversity by leaving under-represented hardwood species. Mark some cherry for harvest. Look for opportunities to encourage regeneration gaps, where appropriate. Retain legacy trees. Leave all hemlock, white spruce and white pine.

Next Step  
Treatments:

Acceptable mixed northern hardwoods; some white pine, hemlock and spruce is acceptable also  
Regen:

Other Treat with C. 6 stand 76 to the north due to access. May need to harvest during winter or frozen conditions, due to slight lowland area to cross.

Comment: Old next step comments:

Proposed Start Date: 11/7 /2014

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**Total Treatment  
Acreage Proposed: 18.4**

## Report 5 – Site Conditions

Gwinn Mgt. Unit  
Theresa Sysol : Examiner

Compartment: 12  
Year of Entry: 2017

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		2B	2E	5B	5C	1C	2G	2H	3J		
103	97	<b>7</b>	0	Aspen				<b>7</b>						
166	49	<b>0</b>	117	Cedar					40					76
2	2	<b>0</b>	0	Herbaceous Openland										
62	0	<b>0</b>	62	Lowland Conifers					6	56				0
159	46	<b>15</b>	98	Lowland Deciduous	<b>8</b>	<b>8</b>				96				2
160	97	<b>0</b>	63	Lowland Mixed Forest					0					63
66	21	<b>0</b>	45	Lowland Shrub						0				45
5	0	<b>0</b>	5	Lowland Spruce/Fir								5		
59	5	<b>0</b>	54	Marsh						0				54
9	0	<b>9</b>	0	Mixed Upland Deciduous			<b>9</b>							
505	395	<b>79</b>	31	Northern Hardwood	<b>35</b>	<b>44</b>				2		28		0
62	62	<b>0</b>	0	Upland Mixed Forest										
9	4	<b>0</b>	5	Water										5
1,367	779	<b>110</b>	479	Total Forested Acres	<b>43</b>	<b>52</b>	<b>9</b>	<b>7</b>	46	155	33			245
	57%	<b>8%</b>	35%	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	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	<b>1C: Other dept or div proc/practices</b>	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Gwinn Mgt. Unit  
Theresa Sysol : Examiner

Compartment: 12  
Year of Entry: 2017

3	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	165	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Rapid River watershed							
7	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Island within lowland type							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	70	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> contains Deer Creek							

## Report 5 – Site Conditions

Gwinn Mgt. Unit  
Theresa Sysol : Examiner

Compartment: 12  
Year of Entry: 2017

9	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> cedar with Deer Creek tributary within							
10	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> If stand were to be treated, it would be best to combine with State land to the east, which would also require private access.							
11	<b>Available</b>	<b>2E: Road needed</b>	52	2I: Survey needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
<b>Comments:</b> Numerous wet areas to cross to reach higher grounds. Long road building operation with potential drainages to cross requiring culverts and/or crane mats.							
12	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	25	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	15	2B: Unknown if access through adjacent landowner(s) is possible	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified
<b>Comments:</b> Stand falls between two drainages (Deer Creek). Treatment might be possible with State land to the east - access across private would be necessary, though.							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	20	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Contains a fairly heavy cedar component.							

## Report 5 – Site Conditions

Gwinn Mgt. Unit  
Theresa Sysol : Examiner

Compartment: 12  
Year of Entry: 2017

15	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Fairly heavy cedar component to stand.							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	127	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stands contain fairly heavy cedar component and wet ground. Some edges may be possible to treat when surrounding timber is scheduled.							
18	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Not marketable by itself; acreage too small. Only patch of larger aspen in immediate area.							

## Report 5 – Site Conditions

Gwinn Mgt. Unit  
Theresa Sysol : Examiner

Compartment: 12  
Year of Entry: 2017

75	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:



## 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. 12 Removal 1</b> <b>Comments</b> N- MARSH,-FLOODING. Will be protected by BMP's.	Other SCA		SCA Removal	3
<b>C. 12 Removal 10</b> <b>Comments</b> Z-WATER. Will be protected by BMP's.	Other SCA		SCA Removal	0
<b>C. 12 Removal 11</b> <b>Comments</b> Z-WATER. Will be protected by BMP's	Other SCA		SCA Removal	0
<b>C. 12 Removal 12</b> <b>Comments</b> Not old growth.	Other SCA		SCA Removal	43
<b>C. 12 Removal 13</b> <b>Comments</b>	Other SCA		SCA Removal	1
<b>C. 12 Removal 14</b> <b>Comments</b> DEER DAMAGE, POOR ACCESS surrounded by wet Q type, hard to get to.	Other SCA		SCA Removal	6
<b>C. 12 Removal 2</b> <b>Comments</b> L-LOWLAND BRUSH. Not old growth.	Other SCA		SCA Removal	2
<b>C. 12 Removal 3</b> <b>Comments</b> S5Q3, PATCHES UP - LOWLAND, LAND LOCKED, E OF BEAVER FLOODING. Not old growth.	Other SCA		SCA Removal	5
<b>C. 12 Removal 4</b> <b>Comments</b> Protected by BMP guidelines and Static riparian SCA	Other SCA		SCA Removal	61
<b>C. 12 Removal 5</b> <b>Comments</b> C6Q4Q2, SOME NICE CEDAR. Not old growth.	Other SCA		SCA Removal	25
<b>C. 12 Removal 6</b> <b>Comments</b> POOR ACCESS, leave stand, because it is a highly erodable riparian area. Follow BMP's - not old growth.	Other SCA		SCA Removal	1



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<b>C. 12 Removal 7</b> <b>Comments</b> E5Q4, WET; BMP's will be applied if treated.	Other SCA		<b>SCA Removal</b>	9
<b>C. 12 Removal 8</b> <b>Comments</b> E4Q2, MOSTLY 2-5" DBH, 15-20 FT TALL BASH, LOTS OF E3. Not old growth - follow BMP's.	Other SCA		<b>SCA Removal</b>	29
<b>C. 12 Removal 9</b> <b>Comments</b> POG, S5M4,WET AREAS, very highly erodable riparian area.	Other SCA		<b>SCA Removal</b>	0
<b>Raid River pools</b> <b>Comments</b> WET, ALONG STREAM. Surrounded by wet types. Now turned into an old beaver flooding area with lots of dead trees standing .	Spring-Seeps, Riparian Areas	Riparian Area	<b>Proposed SCA</b>	33
<b>Rapid Hardwood Island</b> <b>Comments</b> FAIR STAND, DEER DAMAGE, Hard to get to because of wet Qand E type around the stand.	Habitat Areas or Corridors	Other Habitat Area	<b>Proposed SCA</b>	3
<b>Rapid River conifers</b> <b>Comments</b>	Habitat Areas or Corridors	Habitat Corridor	<b>Proposed SCA</b>	6
<b>Rapid River corridor central</b> <b>Comments</b> E3E4Q2L, AVE 5" DBH, 15-20 FT, SCATTERED CED/BASH.	Habitat Areas or Corridors	Habitat Corridor	<b>Proposed SCA</b>	13
<b>Rapid River corridor N.</b> <b>Comments</b> Contains Rapid River and also provides wildlife travel corridor	Spring-Seeps, Riparian Areas	Riparian Area	<b>Proposed SCA</b>	40
<b>Rapid River corridor N. central</b> <b>Comments</b>	Habitat Areas or Corridors	Habitat Corridor	<b>Proposed SCA</b>	9
<b>Rapid River drainage</b> <b>Comments</b> L-LOWLAND BRUSH	Spring-Seeps, Riparian Areas	Riparian Area	<b>Proposed SCA</b>	12



## 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>Rapid River Hardwood Island</b> <b>Comments</b> Surrounded by wet Q,E,L types.	Habitat Areas or Corridors	Other Habitat Area	<b>Proposed SCA</b>	2
<b>Rapid River mid pools</b> <b>Comments</b> WET, ALONG STREAM. Surrounded by wet types. Now turned into an old beaver flooding area with lots of dead trees standing .	Spring-Seeps, Riparian Areas	Riparian Area	<b>Proposed SCA</b>	12
<b>Rapid River pool</b> <b>Comments</b> L-LOWLAND BRUSH	Spring-Seeps, Riparian Areas	Riparian Area	<b>Proposed SCA</b>	1
<b>Rapid River S. corridor</b> <b>Comments</b> C6Q4, NICE CEDAR.	Habitat Areas or Corridors	Habitat Corridor	<b>Proposed SCA</b>	10
<b>Rapid River spreads</b> <b>Comments</b> E5Q4, WET	Habitat Areas or Corridors	Habitat Corridor	<b>Proposed SCA</b>	51
<b>Rapid River wetlands</b> <b>Comments</b>	Spring-Seeps, Riparian Areas	Riparian Area	<b>Proposed SCA</b>	27



## 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	5.7	93	51-80	Lowland hardwoods with conifers; wet site with high water table.
2	6122 - Black Spruce	Poletimber Well	4.7	85	51-80	Stand access blocked by drainage/creek and beaver flooding. Small patch of uplands in SE tip.
4	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.2	96	81-110	OPIC - FMD: FDF. CUT PRMT. # 38-97-01 "R.B. Block" (unit 2) - thinned Jan-March, 2001. NICE STAND, ACCESS FROM NORTH. DEER BROWSING ON REPRODUCTION. 2014: Treat in 2015 with C. 6 stand 76 to the north, due to access. Stand contains old white pine stump evidence. Borer damage noted on maple, also some heavy girdling, in places. Not much maple ground cover (1-2' hts) - most is older age class (2-3" dbh).
5	6139 - Mixed Lowland Forest	Poletimber Well	1.3	103	81-110	Same as stand to the north.
6	61199 - Lowland Hardwood (OI)	Poletimber Medium	1.8	85	51-80	OPIC - FMD: E4F4F2L, DEAD ELMS, FEW RM SAWLOGS, PATCHY HI AREAS. Stand was not examined due to time constraints and because it will not be harvested-too wet; creek flows through stand.
7	4115 - Y.Birch, Hemlock NH	Poletimber Medium	3.4	90	81-110	OPIC - FMD: POOR ACCESS. A stream and wet L type to cross. Leave for riparian buffer. Deer in area. Stand is similar to stand to the north in C. 6 (stand 71).
8	4110 - Sugar Maple Association	Sawtimber Well	26.1	96	81-110	Cut under permit #38-97-01 "R.B. Block" (unit 1) - thinned Dec, 1999 - Jan, 2000. Old grass opening within. Basswood mainly in clumps. Still a lot of defects within stand - heavy forking, sweep, cankers. Noted some uprooted cherry sawlog-sized trees. Conifers mainly along fringe of lowland. Maple regeneration is fairly thick, in places.
11	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	7.6	78	81-110	OPIC - FMD: E5Q4, WET. Access to stand blocked by creek and private lands.
12	6120 - Lowland Cedar	Poletimber Well	25.2	114	171-200	
13	6120 - Lowland Cedar	Poletimber Well	13.1	114	Unspecified	Nice cedar pockets and areas with more scattered timber within. Some uprooting noted.
14	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.2	88	111-140	Heavy defects within the stand - black stain, splits, forking, cankers and seams all prevalent. Trace amount of hemlock (5" dbh noted). Others conifers mainly on edges and on lower grounds. Little understory maple regeneration is present (heavy browse noted on visible regen <3' hts), except in some of the transition/lower areas with lower stocking. Access is a problem.
15	4134 - Aspen, Spruce/Fir	Poletimber Well	4.2	50	81-110	Aspen is breaking up; dead/dying - understory is maple. Poor access. Stand transitions into heavier red maple saplings/small poles as you head east. Will convert to maple. Old notes regarding manual cutting (wildlife?) done under permit 68/59, completed 1967.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4319 - Mixed Upland Forest	Poletimber Medium	62.2	93	81-110	Fairly heavy cedar component within. Larger balsam fir is dying out or dead - budworm kill from 1980's - replacing with understory fir. Trace black cherry noted. Dead aspen snags within. Variable low quality stand, with numerous wet pockets.
17	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	61.6	83	81-110	Contains Deer Creek.
18	6118 - Lowland Deciduous with Cedar	Poletimber Well	7.7	83	111-140	Low area between higher hardwood grounds. Some hemlock noted - top dieback. Larger balsam fir is either dead or dying; old budworm kill.
19	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	15.3	93	111-140	Difficult access to stand.
20	4119 - Mixed Northern Hardwoods	Sawtimber Well	46.2	98	81-110	Cut in 2001 and 2003 by Gary Gazan under permit # 002-97-01. Smaller 3-5' ground cover maple is heavily browsed, although there are areas with good 10-15' sugar maple stems. Still plenty of defects noted to residual trees (seams, crook, forks); snags and snapped trees also. Lower pockets of cedar, spruce and white pine within. A few areas are heavier to sugar maple poles (6-8") with legacy red maple.
21	4130 - Aspen	Sapling Well	35.5	13	Immature	Cut by Gazan under permit# 002-97-01 winters of 2001, 2003. Some residual hardwood within. Raspberry ground cover noted.
22	4130 - Aspen	Sapling Well	3.6	12	Immature	Cut by Gazan winters of 2001, 2003 under permit # 002-97-01. Some open areas and residual hardwood present. Raspberry ground cover noted.
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.3	98	111-140	Upland ridge and swale stand - lower areas contain more red maple, fir and black ash, and also some pockets of thick fir understory (15-20' hts) with red maple overtop. Ridge with low quality, sawlog-sized pulp red maple (numerous spiral seams, snag trees) with some crop tree potential sugar maple (poles) - very little conifers. A few of the more open areas contain hazel, ironwood, cherry and maple (10-20' hts) regeneration. Little maple seedling ground cover noted otherwise - browsed. Difficult stand to access; some portions impacted by adjacent lowland type.
24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	93.0	98	81-110	Cut winters of 2001, 2003 by Gazan under permit # 002-97-01. Average residual is around 100 BA, although most edges are lower stocking (80-90 BA) and contain heavier regeneration. Interior maple regeneration is pretty much lacking. Very few conifers. Both raspberry and leatherwood ground cover noted.
25	6120 - Lowland Cedar	Poletimber Medium	70.6	85	1-50	MOSTLY B. ASH/CEDAR - NON-PRODUCTIVE. DENSER, LG STEMS AROUND UPLAND EDGE. Includes small island of upland hardwood.
26	61199 - Lowland Hardwood (OI)	Poletimber Poor	29.5	73	1-50	OPIC - FMD: E4Q2, MOSTLY 2-5" DBH, 15-20 FT TALL B. ASH, LOTS OF E3.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	61199 - Lowland Hardwood (OI)	Poletimber Poor	16.3	77	1-50	OPIC - FMD: E3E4Q2L, AVE 5" DBH, 15-20 FT, SCATTERED CED/BASH.
30	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	56.2	90	81-110	OPIC - FMD: Q6Q3, Wet area, LOTS OF DEER SIGN, riparian zone, leave for buffer.
31	4119 - Mixed Northern Hardwoods	Poletimber Well	5.5	98	111-140	Hardwood island within swamp. OPIC - FMD: POOR ACCESS, HEAVY DEER DAMAGE.
32	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.5	85	81-110	Portion of stand (3" dbh aspen with maple saplings) appears to have been treated with stand to the east, under permit #004-92. Remainder of stand is hardwood with older, overmature aspen and some spruce/fir. Heavy ground cover of maple seedlings (<2' hts), but, heavily browsed. Not enough volume in stand to treat economically.
34	4199 - Other Mixed Upland Deciduous	Poletimber Medium	8.5	98	1-50	Shelterwood cut with adjacent compartment - permit #004-92 "J.R. Block" (unit 3).
35	6118 - Lowland Deciduous with Cedar	Sawtimber Well	62.9	98	81-110	Areas heavier to cedar pockets. Slowly gradients into smaller, lower stocked timber. Browsed ash.
36	6120 - Lowland Cedar	Poletimber Medium	5.7	101	81-110	Contains Deer Creek drainage.
37	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	47.8	82	81-110	Poor access to stand; a stream (headwaters of the Rapid River) and wet Q,E,L type to cross. Cut winter of 2010-11 under contract #001-07-01 "Lathrop Sale" (unit 1,2). Heavily browsed maple ground cover; some regeneration pockets thicker to aspen. Legacy maple ( up to 36" dbh) noted within on higher grounds; some areas of the stand thicker to poles. Lowland strip of black ash, spruce/fir splits stand, and occasional cedar clumps throughout. Edges of stand heavier to poles; more red maple.
38	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	21.7	88	81-110	OPIC - FMD: F5M4Q4, HI/LO AREAS. Portions of original stand were treated with adjacent harvest; remainder is mostly lowland conifers with some red maple, aspen and birch.
39	4130 - Aspen	Sapling Well	22.3	4	Immature	OPIC - FMD: Survey needed. Cut winter of 2010-11 under contract #001-07-01. Heavy raspberry ground cover noted.
41	4112 - Maple, Beech, Cherry Association	Poletimber Medium	16.9	82	51-80	OPIC - FMD: F5M5, HI/LO AREAS, TRANSITION AREA. Treated winter of 2010-11 under contract #001-07-01. Good retention of large diameter wildlife trees and overmature aspen. Dead balsam fir snags. Heavy raspberry ground cover and browsed maple seedlings.
42	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	31.4	97	81-110	OPIC - FMD: E5Q4, WET. Stand can be variable; some dead ash areas, and some areas thicker to spruce/fir, maple, cedar, and spruce/fir, birch (narrow ridge). Windthrow noted to stand, as well as blowdown and dead spruce/fir. Difficult stand to harvest, due to natural drainages.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4119 - Mixed Northern Hardwoods	Poletimber Well	10.1	98	51-80	OPIC - FMD: FDF, DEER BROWSING ON REPRODUCTION. CUT PRMT.# 3-97-01 "Lathrop Road Hardwood" (unit 4) - cut Feb, 2001.
45	4113 - R.Maple, Conifer	Poletimber Medium	6.6	98	81-110	Permit # 3-97-01 "Lathrop Road Hardwood" (part of unit 5) - cut Nov-Dec, 1999. Some large diameter red maple, yellow birch with smaller maple poles and saplings. Also cedar, hemlock, fir residual. Very little maple ground cover regeneration noted.
46	6120 - Lowland Cedar	Poletimber Well	10.2	85	81-110	Heavier cedar patches with other mixed conifers, deciduous scattered. Understory ash is heavily browsed. Little understory otherwise.
47	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	42.0	97	51-80	OPIC - FMD: E5E3L, HOLD 20 YRS. 2014: Blowdown and wet. Some dead/dying balsam fir. Pockets of heavier conifers (fir, spruce, cedar) with transition edges with more red maple. Browsed ash seedlings at the 3-5 ft ht, but still good quantity of regeneration 10 ft +.
48	6120 - Lowland Cedar	Sawtimber Well	2.1	95	111-140	OPIC - FMD: Q6, NICE CEDAR. 2014: Lots of blow down occurring. Little/no understory present.
49	4119 - Mixed Northern Hardwoods	Poletimber Well	119.5	98	81-110	OPIC - FMD: FDF, CUT PRMT.# 3-97-01 "Lathrop Road Hardwood" (unit 2 - 4) - cut Jan-Feb, 2000 and 2001. DEER BROWSING ON REPRODUCTION. 2014: Some better, higher ground timber with lots of lower areas interspersed with scattered spruce, cedar. Lots of defects to stand yet, but some pole potential. Uprooting/blowdown in heavier thinned areas. Numerous legacy maple (to 30" dbh), and basswood mainly in clumps. Still little understory regeneration noted; browsed ash and maple seedlings.
50	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.5	95	81-110	Small stand of hardwood surrounded by drainages/low areas.
53	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	11.7	98	51-80	OPIC - FMD: POOR QUALITY , POOR ACCESS. Harvested Jan, Feb, 2011 under contract #001-07-01 "Lathrop Sale" (unit 4). Heavy raspberry ground cover noted. Lycopodium present also. Browsed maple regeneration. Lower stand edges heavier to red maple.
54	41199 - Northern Hardwood (OI)	Poletimber Well	8.8	178	111-140	OPIC - FMD: DEER DAMAGE, POOR ACCESS surrounded by wet Q type, hard to get to.
55	6120 - Lowland Cedar	Poletimber Well	39.2	127	111-140	OPIC - FMD: C6S4.
56	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	2.3	127	81-110	Small lowland patch harvested with compartment to the west. (Permit #002-99 - cut 2003)
57	61299 - Mixed Swamp Conifer (OI)	Poletimber Well	5.8	92	81-110	OPIC - FMD: C6Q4, NICE CEDAR. Also contains red maple, fir and spruce.

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## Gwinn Mgt. Unit

## Report 8 – Forested Stands

Compartment: 12  
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	4113 - R.Maple, Conifer	Poletimber Well	4.1	178	141-170	OPIC - FMD: FAIR STAND, DEER DAMAGE, Hard to get to because of wet Qand E type around the stand.
60	6118 - Lowland Deciduous with Cedar	Poletimber Well	8.3	97	81-110	OPIC - FMD: E5Q4, WET.
61	4130 - Aspen	Sapling Well	31.1	15	Immature	OPIC - FMD: A2F1 CUT PRMT. #003-97-01 "Lathrop Road Hardwood" (unit 1). Aspen is 1/2 to 1" dbh, 10-15 ft tall. 2014: Some open areas within stand. Aspen is now 2-3" dbh, 25-30 ft tall. Raspberry ground cover noted.
63	6118 - Lowland Deciduous with Cedar	Poletimber Poor	6.7	97	51-80	OPIC - FMD: E6Q4L, SPARSE,CED, ALDER UNDERSTORY, BAM DYING
64	6118 - Lowland Deciduous with Cedar	Poletimber Medium	12.8	97	51-80	OPIC - FMD: E5E3L, HOLD 20 YRS. 2014: Low, wet stand. Black ash regeneration heavily browsed.
65	4112 - Maple, Beech, Cherry Association	Poletimber Well	18.9	98	81-110	OPIC - FMD: CUT PRMT. # 3-97-01 "Lathrop Road Hardwood" (part of Unit 5) - cut Nov-Dec, 1999. DEER BROWSING ON THE REPRODUCTION. 2014: Lower grounds with more ash, red maple, hemlock and spruce. Not much maple regeneration 3 ft and less present; heavily browsed yet.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	62399 - Marsh (OI)	4.9	No	Marsh/flooding; tagalder in clumps.
9	6220 - Alder/willow	7.7	No	OPIC - FMD: L-LOWLAND BRUSH. Contains Deer Creek.
10	6299 - Lowland Shrub (OI)	1.7	No	OPIC - FMD: L-LOWLAND BRUSH
27	500 - Water	1.3	No	Rapid River flows through.
28	629 - Mixed non-forested wetland	13.4	No	Some scattered timber. Floodwater zone for Rapid River.
40	62399 - Marsh (OI)	35.2	No	OPIC - FMD: WET, ALONG STREAM. Surrounded by wet types. Now turned into an old beaver flooding area with lots of dead trees standing (mainly cedar).
43	62399 - Marsh (OI)	18.7	No	OPIC - FMD: WET, ALONG STREAM. Surrounded by wet types. Now turned into an old beaver flooding area with lots of dead trees standing .
51	6220 - Alder/willow	4.9	No	OPIC - FMD: L-LOWLAND BRUSH.
52	510- Water (OI)	0.6	No	OPIC - FMD: Z-WATER
59	6299 - Lowland Shrub (OI)	32.0	No	OPIC - FMD: L-LOWLAND BRUSH
62	31029 - Grass (OI)	1.7	No	OPIC - FMD: SEEDED IN 1982.
66	510- Water (OI)	2.4	No	Beaver flooding
67	6220 - Alder/willow	5.7	No	part of Deer Creek drainage
68	510- Water (OI)	2.5	No	Beaver flooding
69	510- Water (OI)	2.5	No	
70	6299 - Lowland Shrub (OI)	1.0	No	OPIC - FMD: L-LOWLAND BRUSH