



# Compartment Review Presentation

## Gladwin Forest Management Unit

Compartment 132

Entry Year 2016

Acreage: 2,977

County Arenac

Management Area: Gladwin Lake Plain

**Revision Date:** 05/20/2014

**Stand Examiner:** Rick Myrick

### Legal Description:

T19N - R04E, Sections 1, 3, & 11 - 15 and T19N - R05E, Sections 5 - 9, 17, & 18

### Identified Planning Goals:

Through an agreement with the Arenac County Road Commission the worst county roads within the Unit will be identified and upgraded through cooperative management activities deemed mutually beneficial. Forest Roads within the Compartment will be evaluated in order to clarify their access designations for multiple use values. Ash salvage operations due to advancing Emerald Ash Borer infestation will continue as affected stands are identified.

### Soil and topography:

Five major soil associations dominate Compartment 132. They are: the undulating somewhat poorly drained Gladwin-Allendale Association of loamy sands found in lake, outwash, and till plains; the very poorly drained Tawas Carbondale Association muck soils of lake and outwash plain depressions; the Grayling Association of excessively drained sands of moraines and outwash plains, the Rubicon Association of excessively drained sands of lake and outwash plains; and the somewhat poorly drained Au Gres-Rubicon Association sands typical of lake and outwash plains.

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

Compartment 132 consists of one large contiguous block of State land somewhat surrounded by a number of smaller disconnected public parcels a few of which are landlocked. The City of Omer is 1.5 miles southeast, with numerous small parcels of rural residences aligning N. Michigan Road, which leads into the area. The Compartment is almost entirely surrounded by private land. Much of the private ownership is dedicated to agricultural and recreational uses.

### Unique Natural Features:

The Michigan Natural Features Inventory lists the occurrence of Channel darter (*Percina copelandi*) and Wood turtle (*Glyptemys insculpta*) within the Compartment.

### Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

### Special Management Designations or Considerations:

The Rifle River is a cold water stream and is dedicated as a Special Conservation Area. Additionally it is regulated under the Natural Rivers Act and as such is designated as a High Conservation Value Area as well.

### Watershed and Fisheries Considerations:

The Compartment lies within the Rifle River Watershed and borders or contains approximately five miles of the river. Several intermittent flowing creeks drain south to Saverine Creek, which flows to the Rifle. The river is heavily fished and canoed. Redhorse Sucker migrate up the Rifle to spawn each spring.

### Wildlife Habitat Considerations:

Compartment 132 contains a variety of vegetative types. Upland and lowland systems are present, making it suitable for a number of wildlife species. Game species likely to be present in this compartment include black bear, bobcat, raccoon, coyote, wild turkey, ruffed grouse and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redbreasted vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and American woodcock. The compartment is easily accessible to hunters via Grove Road and River Road.

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

Surface sediments consist of lacustrine (lake) clay, silt, sand and gravel. The glacial drift thickness varies between 10 and 100 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations, the Mississippian Bayport Limestone and the Michigan Formation. The Saginaw Formation is used for clay/shale, the Bayport for limestone/stone and the Michigan is quarried for gypsum. A limestone quarry is located three miles to the east. A gravel pit is located in Section

15 and potential appears to be good. Deep River Field, discovered in 1944, is located in the southwest part of the Compartment. The field has produced over 27 MBO from the Dundee Limestone. The eastern part of the Compartment T19N-R5E is currently leased for oil and gas development.

**Vehicle Access:**

Access is available through Michigan Avenue, Franklin Trail, and Jose, Steve's, Stalmach, Grove, and Stewart Roads. The interior poor dirt roads can become seasonally impassable.

**Survey Needs:**

Much of the Compartment has been surveyed. However, registered corners are particularly needed within Sections 17 and 18 to establish property lines.

**Recreational Facilities and Opportunities:**

Dispersed recreation is popular throughout the compartment due to the proximity of the Rifle River. Often the river is accessed in large vans or conventional vehicles. If the roads used for hauling provide direct access to the river it is strongly encouraged that they continue to be maintained and restored to a condition equal to or better than they were before the sale.

**Fire Protection:**

The broad accessibility of this Compartment should lend itself to assisting wildland fire suppression activities. Some areas however may prove difficult to access as they are bisected by the Rifle River. Additionally there are numerous private residences at the wildland/urban interface in the western and eastern reaches of the Compartment.

**Additional Compartment Information:**

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

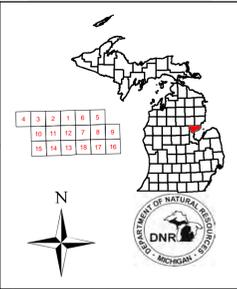
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**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 & Treatment Map

Compartment: 132  
 T19N R04E  
 01 02 03 04 10 11 12 13 14 15  
 T19N R05E  
 05 06 07 08 09 16 17 18  
 County: Arenac  
 Unit: Gladwin  
 Management Area: Gladwin Lake Plain  
 YOY: 2016  
 Acres: 2,977 GIS Calculated  
 Examiner: Rick Myrick  
 Map Revised: 06/19/2014  
 Map Phase: Pre-Review



Stand #  
 23  
 Stocking  
 Density  
 (4120) - A7  
 Level 3  
 Or  
 Level 4  
 Code  
 Cover Type Code

**Legend**

- Miris Corners
- × Gate
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Lakes and Rivers

**Treatments**

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Treatments w/ Site Condition

**Forest Stands**

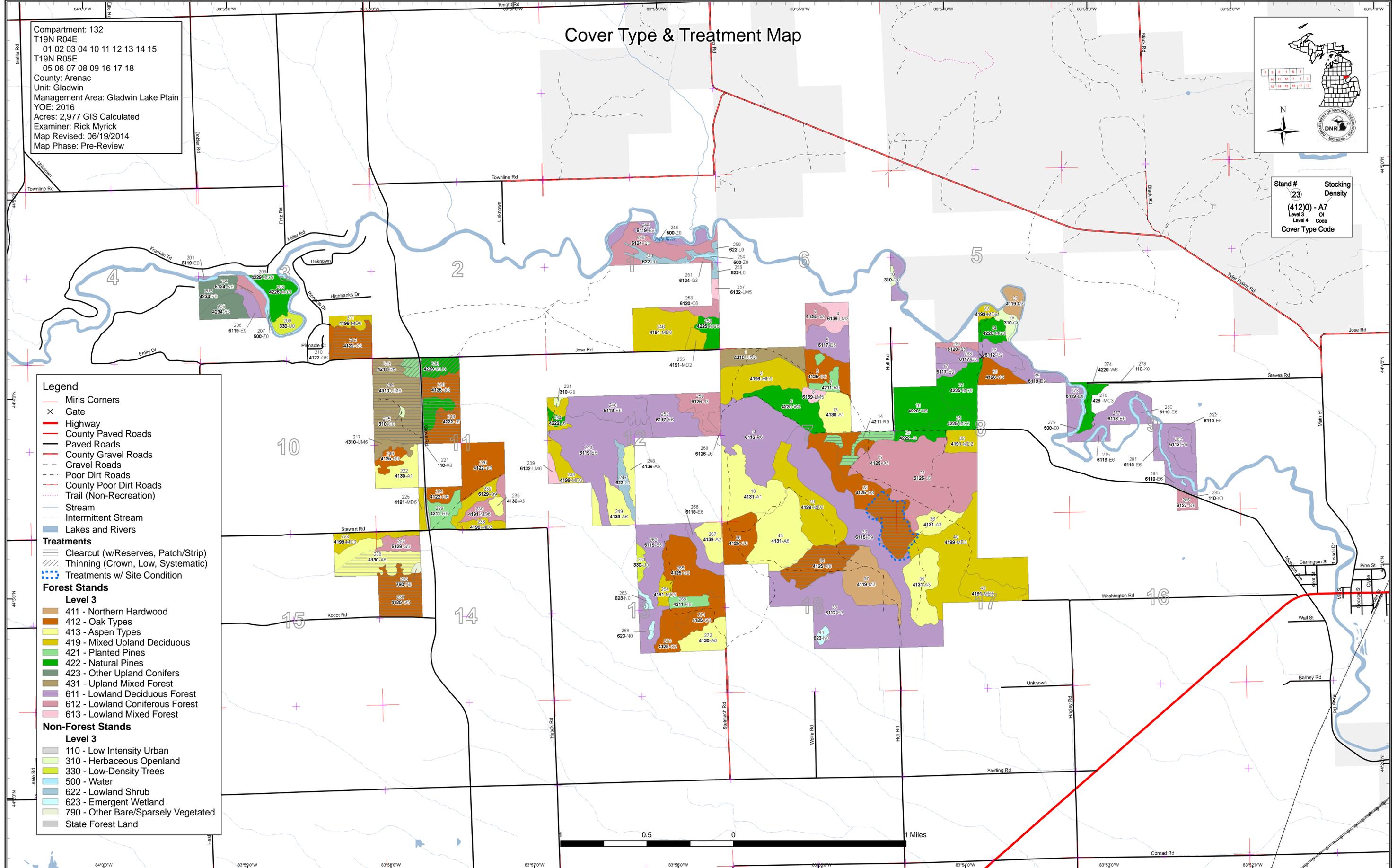
**Level 3**

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

**Non-Forest Stands**

**Level 3**

- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated
- State Forest Land



0.5 0 1 Miles

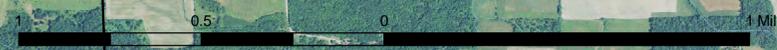
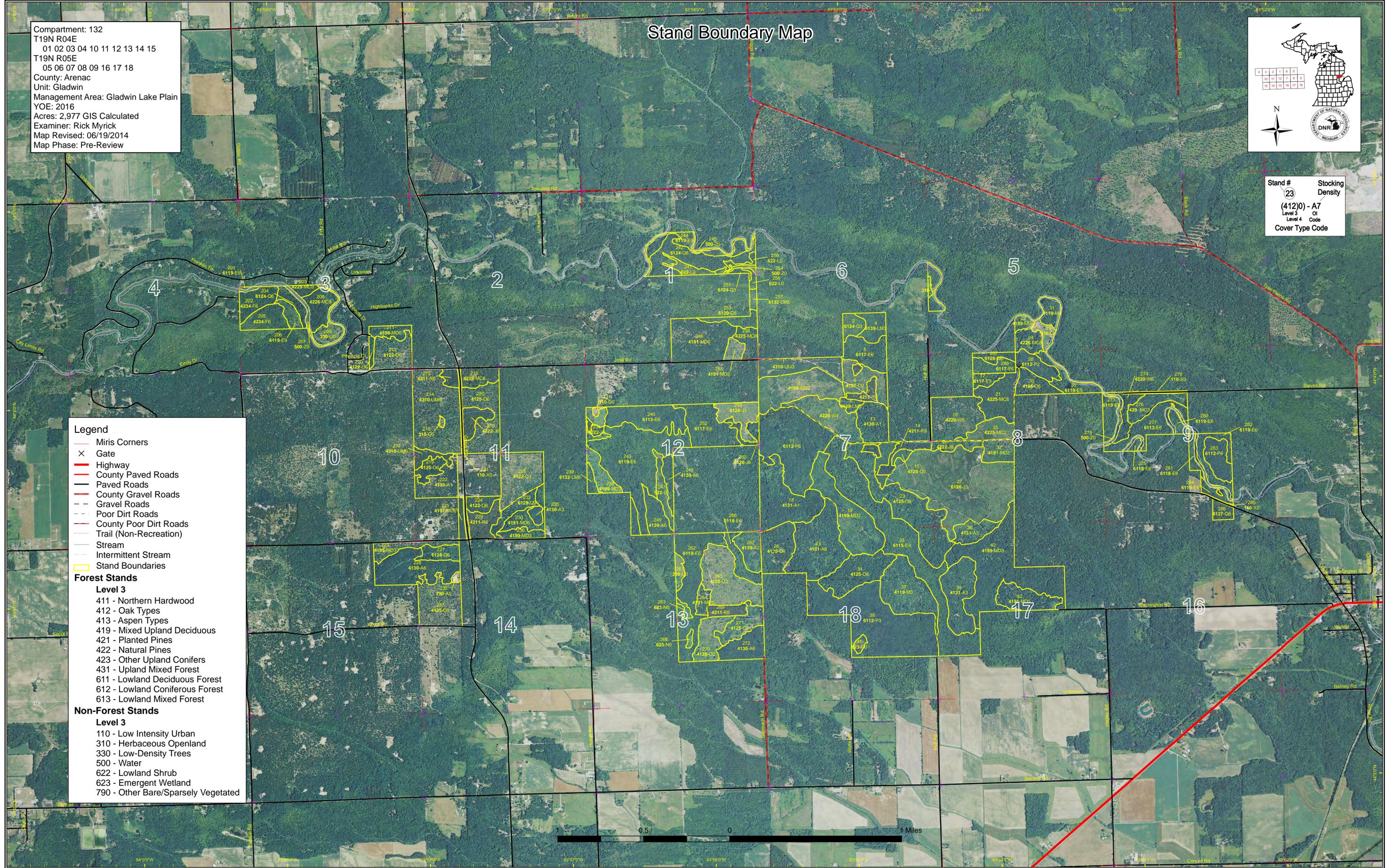
# Stand Boundary Map

Compartment: 132  
 T19N R04E  
 01 02 03 04 10 11 12 13 14 15  
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 05 06 07 08 09 16 17 18  
 County: Arenac  
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Stand #  
 23  
 Stocking  
 Density  
 (4120) - A7  
 Level 3  
 Of  
 Level 4 Code  
 Cover Type Code

- Legend**
- Miris Corners
  - × Gate
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Stream
  - Intermittent Stream
  - Stand Boundaries
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
  - 412 - Oak Types
  - 413 - Aspen Types
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- Non-Forest Stands**
- Level 3**
- 110 - Low Intensity Urban
  - 310 - Herbaceous Openland
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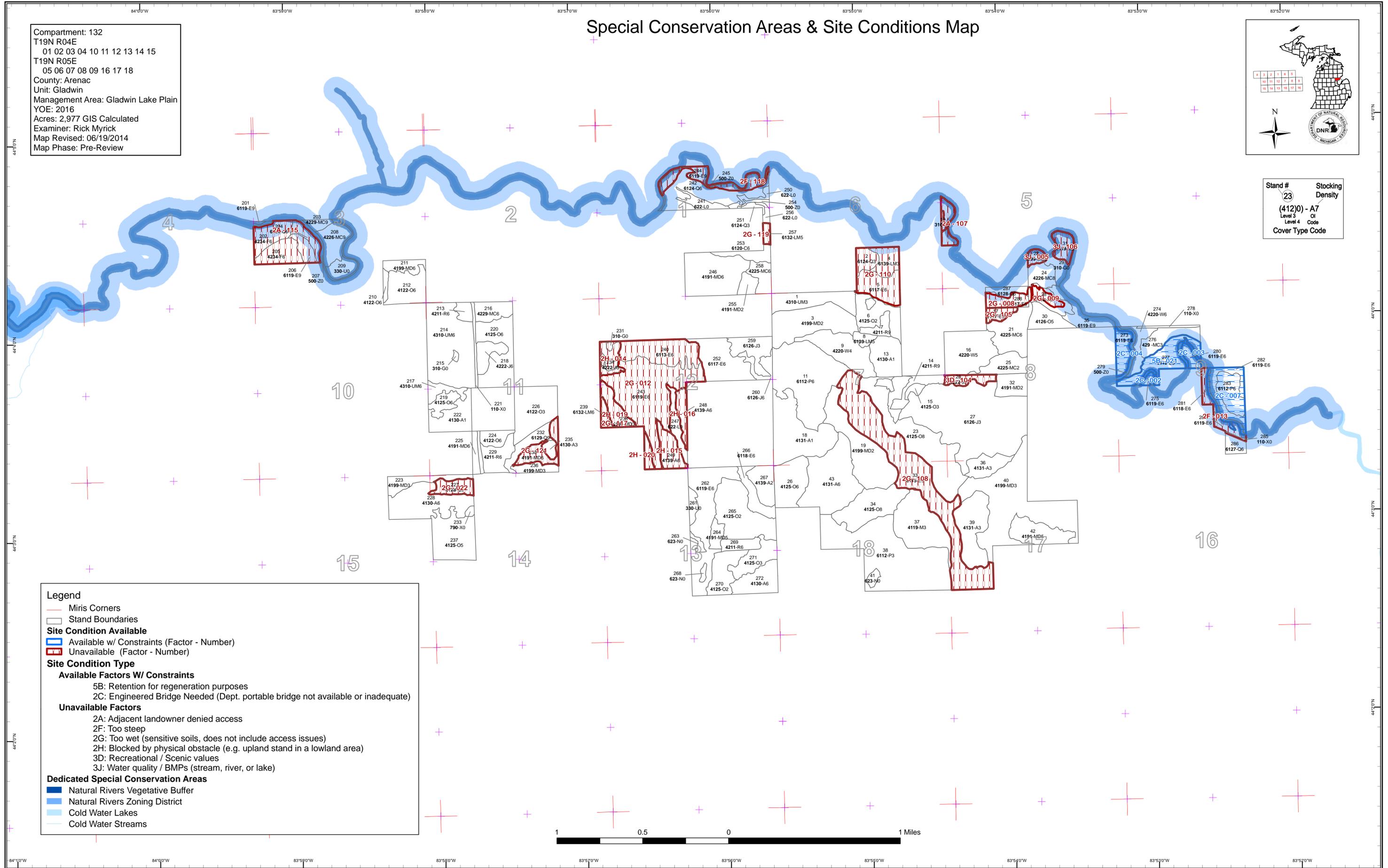


# Special Conservation Areas & Site Conditions Map

Compartment: 132  
 T19N R04E  
 01 02 03 04 10 11 12 13 14 15  
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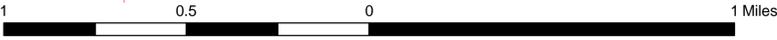


Stand #  
 23  
 Stocking  
 Density  
 (4120) - A7  
 Level 3  
 Of  
 Level 4  
 Code  
 Cover Type Code



**Legend**

- Miris Corners
- Stand Boundaries
- Site Condition Available**
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type**
- Available Factors W/ Constraints**
- 5B: Retention for regeneration purposes
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- Unavailable Factors**
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- Dedicated Special Conservation Areas**
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Lakes
- Cold Water Streams





	Age Class														Total
	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 +	Uneven Age	
Aspen	109	34	46	122	47	0	0	0	0	0	0	0	0	0	357
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	10	0	0	0	0	0	10
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Jack Pine	20	151	0	12	0	0	12	9	0	0	0	0	0	0	206
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	137	107	0	0	0	0	0	0	0	0	0	0	244
Lowland Conifers	0	0	0	2	17	7	0	48	0	0	0	13	16	0	103
Lowland Deciduous	0	0	0	99	25	59	156	154	44	0	0	0	0	10	547
Lowland Mixed Forest	0	14	0	8	0	0	0	0	5	0	0	0	0	0	27
Lowland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	7	163	7	186	14	0	0	0	0	26	0	5	0	0	409
Natural Mixed Pines	0	18	0	31	13	15	12	5	0	0	0	0	0	19	113
Northern Hardwood	0	0	0	50	0	0	0	0	11	0	0	0	0	0	61
Oak	95	79	0	23	31	0	0	76	81	85	0	0	0	0	472
Red Pine	0	0	0	0	14	25	17	0	0	0	0	0	0	0	57
Upland Conifers	0	18	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Mixed Forest	0	29	0	0	0	9	0	0	77	0	0	0	0	0	115
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	38	0	0	0	0	38
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Water	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
White Pine	0	0	0	55	37	0	0	0	0	0	0	0	0	0	92
<b>Total</b>	<b>339</b>	<b>508</b>	<b>190</b>	<b>695</b>	<b>199</b>	<b>114</b>	<b>199</b>	<b>293</b>	<b>229</b>	<b>148</b>	<b>0</b>	<b>18</b>	<b>16</b>	<b>29</b>	<b>2977</b>



## Report 2 – Proposed Treatment Summaries

**Gladwin Mgt. Unit**  
**Year of Entry 2016**

**Compartment 132**  
**Total Compartment Acres: 2,977**

### Acres by Treatment Type

Commercial Harvest - 343    Tree Planting - 9    Other - 0  
 Habitat Cut - 0    Opening Maintenance - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen Types</b>	33	0	0	0	0	0	33
<b>Natural Pines</b>	12	0	0	0	15	0	27
<b>Oak Types</b>	190	0	0	0	0	0	190
<b>Planted Pines</b>	9	0	0	0	6	0	16
<b>Upland Mixed Forest</b>	77	0	0	0	0	0	77
<b>Total</b>	<b>322</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>343</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	73132014-CC	9.4	42110 - Planted Red Pine	High Density Log	48	171-200	Harvest	Clearcut	42110 - Planted Red Pine	Fld. Tr. Bdy.
<u>Prescription</u> 2" Clear cut.										
<u>Specs:</u>										
<u>Other</u> No retention due to low acre size.										
<u>Comments:</u>										
<u>Next</u> Replant to Red Pine within northern strip at road and within southern block only. The remainder expected to naturally regenerate to jack pine.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2010										
34	73132034- CCR	41.0	4125 - Black, N. Pin Oak	Medium Density Log	85	81-110	Harvest	Clearcut with Reserves	4310 - Pine, Oak Mix	Fld. Tr. Bdy.
<u>Prescription</u> 2" clear cut.										
<u>Specs:</u>										
<u>Other</u> Focus 3 to 4% retention around "traditional" campsites within the stand.										
<u>Comments:</u>										
<u>Next</u> Following harvest, trench and interplant to jack pine.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2010										
212	73132-212-Cut	26.9	4122 - Oak, Pine	High Density Pole	96	1-50	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut all black oak and jack pine. Retain all white oak, white pine, and red pine and mark to leave a few wolfy mature black oak.										
<u>Specs:</u>										
<u>Other</u> Retention is met with the uncut species.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
213	73132-213-Cut	6.3	42110 - Planted Red Pine	High Density Pole	58	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut all jack pine. Mark red pine down to 70 BA.										
<u>Specs:</u>										
<u>Other</u> Retention is met with the uncut species.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval
										Status
214	73132-214-Cut	76.9	4310 - Pine, Oak Mix	High Density Pole	85	1-50	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal

Prescription Cut all black oak and jack pine. Retain all white oak, white pine, and red pine and mark to leave a few wolfy mature black oak.

Specs:

Other Retention is met with the uncut species.

Comments:

Next Steps:

Proposed

Start Date: 10/01/2015

216	73132-216-Cut	14.5	42290 - Natural Mixed Pine	High Density Pole	54	51-80	Harvest	Systematic Thinning	4221 - Natural Red Pine	Cmpt. Review Proposal
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Prescription Cut all jack pine and aspen. Mark thick areas of red pine down to 70 BA.

Specs:

Other Retention is met with the uncut species.

Comments:

Next Steps:

Proposed

Start Date: 10/01/2015

218	73132-218-Cut	12.3	42220 - Natural Jack Pine	High Density Pole	68	81-110	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal
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Prescription Cut all species. Mark to leave a few pole size or greater black oak, white oak and white pine if possible.

Specs:

Other Retention will be met with the green marked to leave species.

Comments:

Next Steps:

Proposed

Start Date: 10/01/2015

220	73132-220-Cut	41.7	4125 - Black, N. Pin Oak	High Density Pole	93	1-50	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
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Prescription Cut all black oak and jack pine. Retain all white oak, white pine, and red pine and mark to leave a few wolfy mature black oak.

Specs:

Other Retention is met with the uncut species.

Comments:

Next Steps:

Proposed

Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
228 73132228-Cut	33.4	4130 - Aspen	High Density Pole	40		Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal

Prescription Cut all species. Retain all white pine and a few mature aspen as cavity trees.

Specs:

Other Mark to leave one aspen of the dominant dbh per acre to be felled and left as grouse drumming logs.

Comments:

Next Steps:

Proposed Start Date: 10/01/2015

237 73132-237-Cut	41.6	4125 - Black, N. Pin Oak	Medium Density Pole	86	1-50	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
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Prescription Cut all black oak and jack pine. Retain all white oak, white pine, and red pine and mark to leave a few wolfy mature black oak.

Specs:

Other Retention is met through the uncut species.

Comments:

Next Steps:

Proposed Start Date: 10/01/2015

**Total Treatment Acreage Proposed: 304.1**

S  
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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23 73132023-CCR	38.9	4125 - Black, N. Pin Oak	Medium Density Log	70	1-50	Harvest	Clearcut with Reserves	4125 - Black, N. Pin Oak	Fld. Tr. Bdy.

Prescription 8" spec. clear cut all oak. 2" clear cut all other species.

Specs:

Other Comment: Focus 3-4% retention around "traditional" campsites.

Next Steps: Post-harvest prescribed burn to control Red Maple. Mixed species expected to regenerate.

Proposed

Start Date: 10/01/2010

Limiting Factor

2G: Too wet (sensitive soils, does not include access issues)

**Total Treatment  
Acreage Proposed: 38.9**

## Report 5 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment 132  
Year of Entry 2016

### Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions									
				No	5B	3J	3D	2H	2G	2F	2C	2A	
357	325	31	Aspen	325				31					
10	10		Cedar	10									
206	193	13	Jack Pine	193			9	4					
244	237	7	Lowland Aspen/Balsam Poplar	218					7		19		
102	55	47	Lowland Conifers	55					38	0			9
546	199	346	Lowland Deciduous	133	29			0	299	29	38		18
27	5	22	Lowland Mixed Forest	5					22				
409	380	28	Mixed Upland Deciduous	380		5		23					
113	113		Natural Mixed Pines	113									
61	50	11	Northern Hardwood	50		11							
471	471		Oak	471									
57	57		Red Pine	57									
18	18		Upland Conifers	18									
115	115		Upland Mixed Forest	115									
38	0	37	Upland Spruce/Fir	0									37
92	92		White Pine	92									
2,865	2,321	544	Total Forested Acres	2,235	29	16	9	58	367	29	57		64
	81%	19%	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
002	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	2	2B: Unknown if access through adjacent landowner(s) is possible			
<b>Comments:</b>							

## Report 5 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment 132  
Year of Entry 2016

003	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	6	2B: Unknown if access through adjacent landowner(s) is possible	
<b>Comments:</b>					
004	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	13	2B: Unknown if access through adjacent landowner(s) is possible	
<b>Comments:</b>					
005	Not Available	3J: Water quality / BMPs (stream, river, or lake)	5	2F: Too steep	1A: Federal/State/Local Law
<b>Comments:</b>					
007	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	41	2B: Unknown if access through adjacent landowner(s) is possible	
<b>Comments:</b>					
008	Not Available	2G: Too wet (sensitive soils, does not include access issues)	12	2F: Too steep	
<b>Comments:</b>					

## Report 5 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment 132  
Year of Entry 2016

009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7		
<b>Comments:</b>					
012	Not Available	2G: Too wet (sensitive soils, does not include access issues)	136	2B: Unknown if access through adjacent landowner(s) is possible	
<b>Comments:</b>					
013	Not Available	2F: Too steep	13	No Limiting Factor	
<b>Comments:</b>					
014	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	2B: Unknown if access through adjacent landowner(s) is possible	
<b>Comments:</b>					
015	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	2B: Unknown if access through adjacent landowner(s) is possible	
<b>Comments:</b>					
016	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	2B: Unknown if access through adjacent landowner(s) is possible	
<b>Comments:</b>					

## Report 5 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment 132  
Year of Entry 2016

019	<b>Not Available</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	14	2B: Unknown if access through adjacent landowner(s) is possible
<b>Comments:</b>				
020	<b>Not Available</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
<b>Comments:</b>				
021	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	29	
<b>Comments:</b>				
022	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	
<b>Comments:</b>				
104	<b>Not Available</b>	<b>3D: Recreational / Scenic values</b>	9	
<b>Comments:</b>				
105	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	
<b>Comments:</b>				

## Report 5 – Site Conditions

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment 132  
Year of Entry 2016

106	Not Available	3J: Water quality / BMPs (stream, river, or lake)	11	1A: Federal/State/Local Law	
<b>Comments:</b>					
107	Not Available	2A: Adjacent landowner denied access	10		
<b>Comments:</b>					
108	Not Available	2G: Too wet (sensitive soils, does not include access issues)	122		
<b>Comments:</b>					
110	Not Available	2G: Too wet (sensitive soils, does not include access issues)	49		
<b>Comments:</b>					
115	Not Available	2A: Adjacent landowner denied access	55	2B: Unknown if access through adjacent landowner(s) is possible	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
<b>Comments:</b>					
117	Not Available	2G: Too wet (sensitive soils, does not include access issues)	5		
<b>Comments:</b>					

**Report 5 – Site Conditions**

Gladwin Mgt. Unit  
Rick Myrick : Examiner

Compartment 132  
Year of Entry 2016

118	Not Available	2F: Too steep	22	
<b>Comments:</b>				
119	Not Available	2G: Too wet (sensitive soils, does not include access issues)	3	
<b>Comments:</b>				
121	Not Available	2G: Too wet (sensitive soils, does not include access issues)	16	3H: Deer Wintering Areas
<b>Comments:</b>				



### 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>Comments</b>				



**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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.

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## Gladwin Mgt. Unit

## Report 8 – Forested Stands

Compartment: 132  
Year of Entry: 2016

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4310 - Pine, Oak Mix	High Density Sapling	29.4	19		Good natural regeneration
6124 - Lowland Spruce- Fir	High Density Sapling	9.8	47		Very wet
4199 - Other Mixed Upland Deciduous	Medium Density	51.1	13		Considerable aspen saps west
6139 - Mixed Lowland Forest	High Density Sapling	14.2	12		Very wet and low.
6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	25.3	47	51-80	
4125 - Black, N. Pin Oak	Medium Density	24.3	13		
42110 - Planted Red Pine	High Density Log	9.6	52	111-140	
6139 - Mixed Lowland Forest	Medium Density Pole	5.0	30	1-50	
42200 - Natural White Pine	Low Density Pole	37.2	43	1-50	
6112 - Lowland Aspen	High Density Pole	87.7	35	51-80	
6119 - Mixed Lowland Deciduous Forest	High Density Log	9.6	Uneven Age		
4130 - Aspen	Low Density Sapling	25.2	1		
42110 - Planted Red Pine	High Density Log	13.9	48	171-200	
4125 - Black, N. Pin Oak	High Density Sapling	13.6	17		
42200 - Natural White Pine	Medium Density Pole	43.4	35	51-80	
6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	7.2	85	81-110	
4131 - Aspen, Oak	Low Density Sapling	59.9	2		
4199 - Other Mixed Upland Deciduous	Medium Density	58.4	19		

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## Gladwin Mgt. Unit

## Report 8 – Forested Stands

Compartment: 132  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	42220 - Natural Jack Pine	Medium Density Log	9.4	70		
21	42250 - Pine, Oak	High Density Pole	31.2	31	51-80	
22	4199 - Other Mixed Upland Deciduous	High Density Log	5.2	115	111-140	
23	4125 - Black, N. Pin Oak	Medium Density Log	76.5	70	1-50	
24	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	12.8	47	1-50	
25	42250 - Pine, Oak	Medium Density	18.3	13		
26	4125 - Black, N. Pin Oak	High Density Pole	31.1	47	51-80	
27	6126 - Lowland Jack Pine	High Density Sapling	151.3	13		Outstanding natural regeneration
28	6112 - Lowland Aspen	Medium Density	15.5	26		
30	4126 - White, Black, N. Pin Oak	Medium Density Pole	16.4	94	1-50	
31	4119 - Mixed Northern Hardwoods	High Density Log	11.2	85	111-140	
32	4191 - Mixed Upland Deciduous with Conifer	Medium Density	15.2	15		
33	6115 - Lowland Ash	High Density Log	122.4	70	111-140	
34	4125 - Black, N. Pin Oak	Medium Density Log	39.9	85	81-110	
35	6119 - Mixed Lowland Deciduous Forest	High Density Log	17.4	50	81-110	
36	4131 - Aspen, Oak	High Density Sapling	16.3	12		
37	4119 - Mixed Northern Hardwoods	High Density Sapling	50.2	35		
38	6112 - Lowland Aspen	High Density Sapling	121.9	20	81-110	

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## Gladwin Mgt. Unit

## Report 8 – Forested Stands

Compartment: 132  
Year of Entry: 2016

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4131 - Aspen, Oak	High Density Sapling	41.0	21		
4199 - Other Mixed Upland Deciduous	High Density Sapling	109.6	31		
4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	26.0	90	1-50	
4131 - Aspen, Oak	High Density Pole	65.8	37	51-80	
6119 - Mixed Lowland Deciduous Forest	High Density Log	0.6	79		
42340 - Upland Spruce/Fir	High Density Pole	18.2	95		
42290 - Natural Mixed Pine	High Density Log	5.0	75	171-200	
6124 - Lowland Spruce- Fir	High Density Pole	9.2	75		
42340 - Upland Spruce/Fir	High Density Pole	19.3	95		
6119 - Mixed Lowland Deciduous Forest	High Density Log	8.2	82		
42260 - Natural Pine, Mixed Deciduous	High Density Log	19.2	Uneven Age	111-140	
4122 - Oak, Pine	High Density Pole	3.2	30	51-80	Vegetative buffer to subdivision.
4199 - Other Mixed Upland Deciduous	High Density Pole	10.1	30	1-50	Very steep ridge on the north half of the stand. Approx. 60 ft. drop.
4122 - Oak, Pine	High Density Pole	26.9	96	1-50	Good regeneration.
42110 - Planted Red Pine	High Density Pole	6.3	58	171-200	
4310 - Pine, Oak Mix	High Density Pole	76.9	85	1-50	Good regeneration.
42290 - Natural Mixed Pine	High Density Pole	14.5	54	51-80	
4310 - Pine, Oak Mix	High Density Pole	8.6	54	81-110	

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## Gladwin Mgt. Unit

## Report 8 – Forested Stands

Compartment: 132  
Year of Entry: 2016

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42220 - Natural Jack Pine	High Density Pole	12.3	68	81-110	
4125 - Black, N. Pin Oak	High Density Pole	10.5	37	51-80	
4125 - Black, N. Pin Oak	High Density Pole	41.7	93	1-50	Good regeneration.
4130 - Aspen	Low Density Sapling	24.0	1		
4199 - Other Mixed Upland Deciduous	High Density Sapling	15.4	16		
4122 - Oak, Pine	High Density Pole	9.3	37	81-110	
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	5.6	37	81-110	
4122 - Oak, Pine	High Density Sapling	41.4	16		
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.5	117	111-140	
4130 - Aspen	High Density Pole	47.4	40		
42110 - Planted Red Pine	High Density Pole	17.4	62	111-140	
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	13.8	40	51-80	
6129 - Mixed Coniferous Lowland Forest	High Density Log	15.8	131	171-200	
42220 - Natural Jack Pine	High Density Pole	3.6	38		
4130 - Aspen	High Density Sapling	4.5	26		
4199 - Other Mixed Upland Deciduous	High Density Sapling	8.8	35		
4125 - Black, N. Pin Oak	Medium Density Pole	41.6	86	1-50	Good regeneration.
4199 - Other Mixed Upland Deciduous	High Density Sapling	23.3	12		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
239	6132 - Mixed Lowland Forest with Cedar	High Density Pole	5.0	89		True swamp. Very wet.
240	6113 - Lowland Maple	High Density Pole	38.5	35		
242	6124 - Lowland Spruce-Fir	High Density Pole	39.0	71	51-80	
243	6119 - Mixed Lowland Deciduous Forest	High Density Pole	97.2	69	111-140	EAB infestation. Numerous draws with running water. Numerous areas of standing water. Stand is only marginally upland. Balsam fir is patchy, thick in some portions of the understory.
244	6119 - Mixed Lowland Deciduous Forest	High Density Log	16.9	79	1-50	
246	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	51.9	37	51-80	
248	4139 - Aspen, Mixed Deciduous	High Density Pole	9.8	39		
249	4139 - Aspen, Mixed Deciduous	High Density Pole	22.3	39	81-110	
251	6124 - Lowland Spruce-Fir	High Density Sapling	2.1	38		
252	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	38.2	65	81-110	The stand consists of marginal uplands severed every 200 feet or so by wide lowland strips with north south running drainages.
253	6120 - Lowland Cedar	High Density Pole	10.2	80	141-170	
255	4191 - Mixed Upland Deciduous with Conifer	Medium Density	7.5	5		Good regeneration.
257	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	3.1	35		Standing water. True swamp.
258	42250 - Pine, Oak	High Density Pole	12.4	68	51-80	
259	6126 - Lowland Jack Pine	High Density Sapling	20.3	5		
260	6126 - Lowland Jack Pine	High Density Pole	8.8	38		
262	6119 - Mixed Lowland Deciduous Forest	High Density Pole	60.3	39	51-80	
264	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	7.3	26	51-80	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
265	4125 - Black, N. Pin Oak	Medium Density	51.9	7		
266	6118 - Lowland Deciduous with Cedar	High Density Pole	14.0	70	51-80	Very low and wet. True swamp. EAB infestation noted in Ash.
267	4139 - Aspen, Mixed Deciduous	Medium Density	17.6	16		
269	42110 - Planted Red Pine	High Density Pole	9.6	57	141-170	
270	4125 - Black, N. Pin Oak	Medium Density	23.0	7		
271	4125 - Black, N. Pin Oak	High Density Sapling	20.2	7		
272	4130 - Aspen	High Density Pole	23.6	37		
273	6119 - Mixed Lowland Deciduous Forest	High Density Pole	13.3	60		
274	42200 - Natural White Pine	High Density Pole	11.8	38	81-110	Primarily upland with lowlands along the river's edge.
275	6119 - Mixed Lowland Deciduous Forest	High Density Pole	2.2	60		
276	429 - Mixed Upland Conifers	High Density Sapling	18.2	15	111-140	
277	6113 - Lowland Maple	High Density Pole	28.8	88	81-110	Noted EAB infestation. Selection harvest occurred at this stand a few years ago.
280	6119 - Mixed Lowland Deciduous Forest	High Density Pole	5.6	60		
281	6118 - Lowland Deciduous with Cedar	High Density Pole	6.0	50	81-110	EAB infestation. Steep 100 foot bank down to river floodplain.
282	6119 - Mixed Lowland Deciduous Forest	High Density Pole	16.7	50	81-110	Riparian zone to Rifle River. A designated natural river.
283	6112 - Lowland Aspen	High Density Pole	19.1	39	111-140	
284	6119 - Mixed Lowland Deciduous Forest	High Density Pole	6.6	50	81-110	Steep bank rises approximately 100 feet above Rifle River flood plain. Noted EAB infestation.
286	6127 - Lowland Pine	High Density Pole	7.4	48	51-80	Older oak overstory approximately 10 BA.

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Gladwin Mgt. Unit

Report 8 – Forested Stands

Compartment: 132  
Year of Entry: 2016



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
287	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	6.9	50	51-80	
288	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	12.2	50	51-80	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
10	310 - Herbaceous Openland	1.4	No	Unspecified	
29	310 - Herbaceous Openland	7.8	No	Unspecified	
41	623 - Emergent Wetland	3.3	No	Unspecified	
207	50 - Water	8.5	No	Unspecified	
209	3302 - Low Density Conifer Trees	10.2	No	Unspecified	Large flock of wild turkey present.
215	3105 - Mixed Upland Herbaceous	1.1	No	Unspecified	
221	11 - Low Intensity Urban	7.4	No	Unspecified	
231	3105 - Mixed Upland Herbaceous	1.3	No	Unspecified	
233	790 - Other Bare/Sparsely Vegetate	1.7	No	Unspecified	
241	6229 - Mixed lowland shrub	7.9	No	Unspecified	
245	50 - Water	5.2	No	Unspecified	
247	6220 - Alder/willow	12.1	No	Unspecified	
250	6220 - Alder/willow	4.4	No	Unspecified	
254	50 - Water	2.3	No	Unspecified	
256	6220 - Alder/willow	2.8	No	Unspecified	
261	3303 - Mixed Low Density Trees	5.6	No	Unspecified	
263	6239 - Mixed Emergent Wetland	2.6	No	Unspecified	
268	6239 - Mixed Emergent Wetland	1.8	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
<b>278</b>	11 - Low Intensity Urban	2.9	No	Unspecified	Steve's Road.
<b>279</b>	50 - Water	15.8	No	Unspecified	The Rifle River.
<b>285</b>	11 - Low Intensity Urban	0.9	No	Unspecified	Gravel county road.