



**Gladwin Forest Management Unit
Compartment Review Presentation
Compartment #134 Entry Year: 2012
Compartment Acreage: 1345 County: Arenac**

Revision Date: Jan 2010, Oct 2010

Stand Examiner: Steven Nyhoff

Legal Description: T20N, R5E, Sections 29 & 23
T19N, R5E, Section 5

Identified Planning Goals ('Management Area' or 'RMU', if applicable): None

Management Goals: The compartment is mainly a mix of aspen and oak with the drainages being swamp hardwoods. The oak in the area is Black and Northern Pin Oak with very little Red Oak. The trees have poor to fair form; much of it is grade 2 or 3. The aspen in the compartment has been heavily treated in the past 20 years; therefore, oak covertypes are now in need of attention. Some of these stands have been treated in the past with dead oak removals and fire salvage.

Continue to manage the stands for the current covertypes. Try to maintain the current mix of species. The oak in the area is now 80+ years old and the harvests that have been prescribed this YOE are seed tree harvests. If they do not regenerate well after harvest, they will need to be interplanted with jack or red pine to bring them up to full stocking.

Soil and Topography: The terrain is mainly flat throughout much of the area. The area does have extensive micro relief because it is very hummocky due to a high water table and past wind throw events.

The main soil types are AuGres associations on the moderate ground. In the low ground and along the creeks, the soils are heavier to Tawas Associations and coarse alluvial soils with some Roscommon associations. In addition, the driest areas are heavy to Rubicon and Grayling Associations, which are scattered in the compartment.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The state ownership, for the most part, is contiguous with two landlocked parcels south of Tyler Plains Road. Both of the parcels have frontage on the Rifle River. There are private land holdings to the north and south of the compartment and solid state ownership to the east and the west. The private land in the area is mainly used as recreational properties: hunting, camping, etc.

Unique, Natural Features: There are no known occurrences and not were detected during the inventory process.

Archeological, Historical, and Cultural Features: There are no records of sites in the HAL database and no sites were located during inventory.

Special Management Designations or Considerations: The Rifle River is a designated Natural River.

Watershed and Fisheries Considerations: The compartment has several drainages that go through it. These flow into the Rifle River which the compartment touches along its south boundary. These will need to be protected when sales are set up along or near these creeks.

Wildlife Habitat Considerations: Wildlife Division supports any and all prescribed treatments that will perpetuate existing oak and aspen stands – techniques that will enhance or expand the aspen or oak cover type.

This is not a desirable compartment to implement special wildlife projects – too open and too flat. Road closures within these sections are difficult at best to sustain.

Swamp Conifer and Cedar stands offer thermal cover for wintering deer. Adjacent oak and coniferous stands offer the availability of high energy food sources for winter food stressed deer, during those years that acorn production is high and a larger percentage of the hard mast carries over into the spring breakup period.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel, and probable moraine deposits to the north. The glacial drift thickness varies between 10 and 100 feet, thicker to the north. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is mined for gypsum in other areas of the State. Gravel pits are located on the higher elevations. Most of Section 29 has gravel potential. A limestone quarry is located approximately two miles to the southeast. There has been only minor oil and gas exploration in the area. Four miles to the northwest is Clayton field. This field has produced over 5 Bcf gas from the Berea, nearly 7 million BO from the Richfield and over 17 Bcf gas from the PdC. There are oil and gas leases in Sections 30 and 31 to the west.

Vehicle Access: The access in the compartment is good. There are numerous open roads; many of these are in excess of what are needed. However, the closing of these excess roads is difficult because of the cover types and land which is open and flat.

Survey Needs: Much of the area has been surveyed in the past so no new survey is needed.

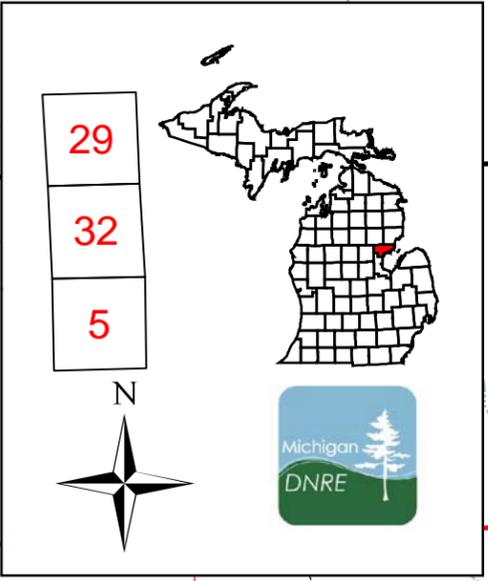
Recreational Facilities and Opportunities: There are no established recreational facilities in the compartment. However, the area is heavily used for hunting, disperse camping, horseback riding, snowmobiling, firewood gathering, and berry picking.

Fire Protection: The area along Tyler Plains Road has a history of fires. The cover types in the compartment are mainly aspen, oak, and swamp hardwoods, which are not explosive fire species. Therefore, the overall fire danger is moderate.

Additional Compartment Information: Text

Cover Type & Treatment Map

Compartment 134
 T19N, R05E, Sec. 05
 T20N, R05E, Sec. 29, 32
 County: Arenac
 Unit: Gladwin
 YOE: 2012
 Acres: GIS Calculated
 Stand Examiner: Steve Nyhoff
 Map Revised: 9/24/2010
 Map Phase: Pre-Review



Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Miris Corners
- Remonumented Section Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Berm
- Gate
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Planting (tree species)

Forest Stands

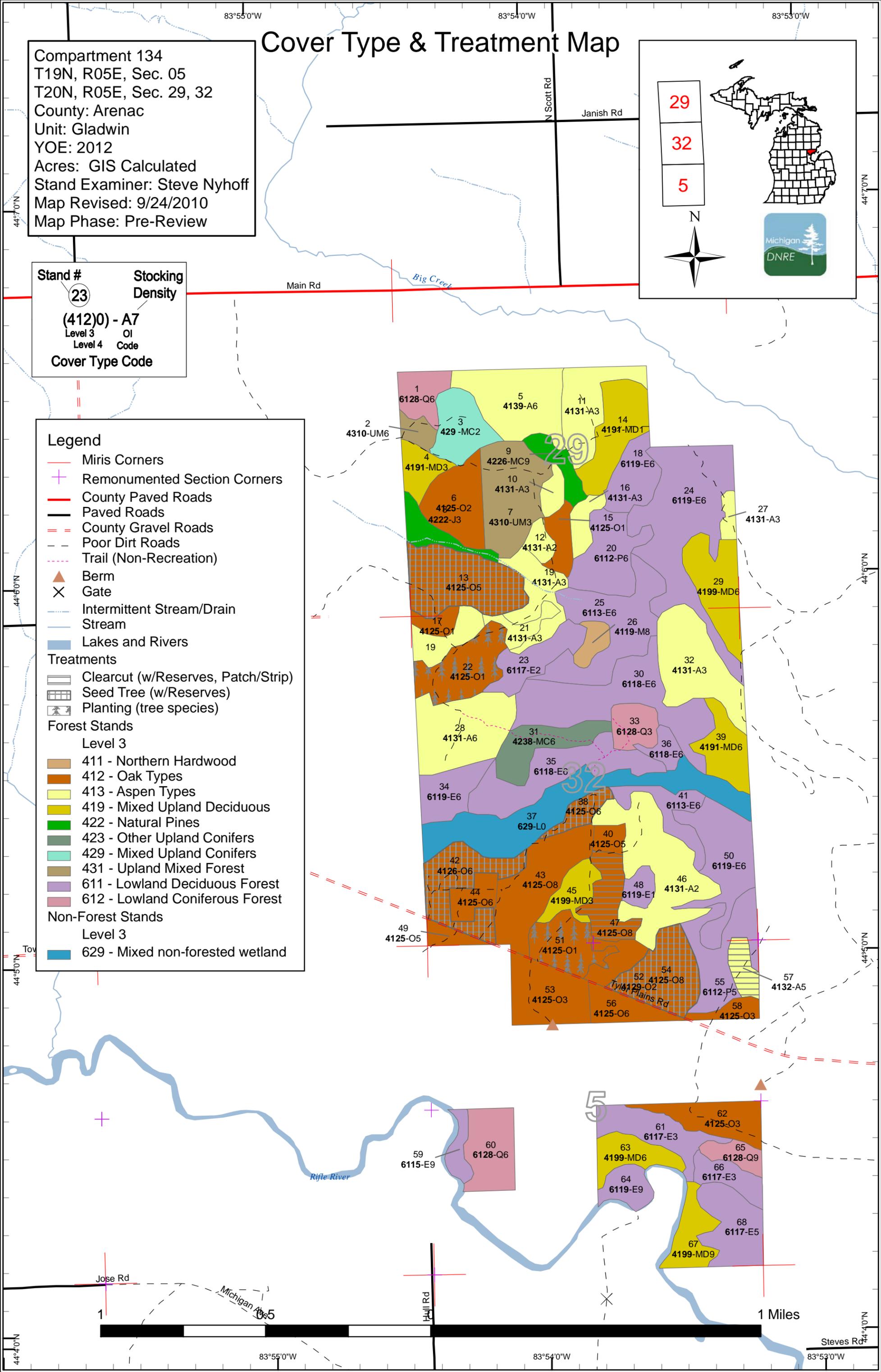
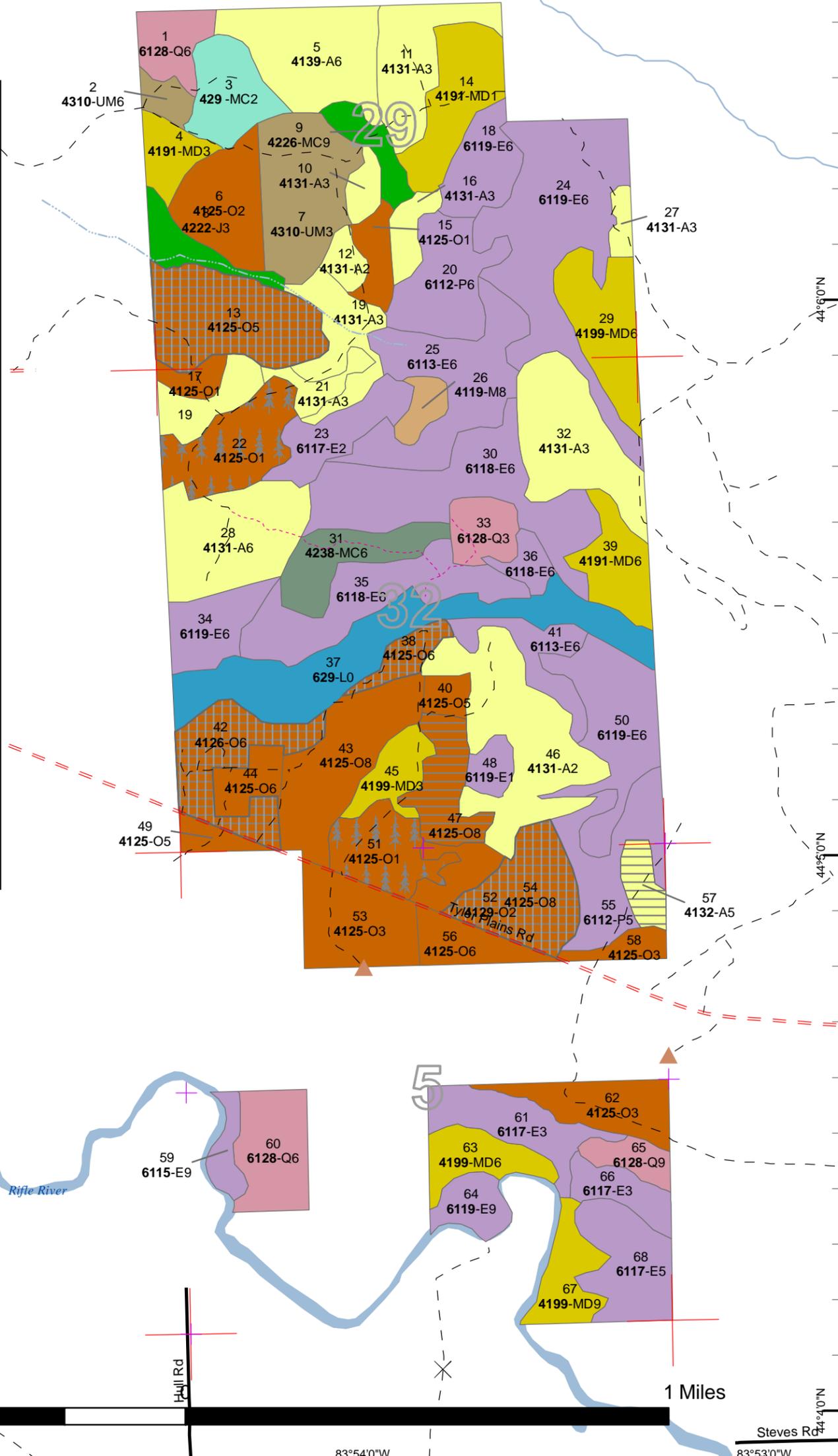
Level 3

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

Non-Forest Stands

Level 3

- 629 - Mixed non-forested wetland



Stand Boundary Map

Compartment 134
 T19N, R05E, Sec. 05
 T20N, R05E, Sec. 29, 32
 County: Arenac
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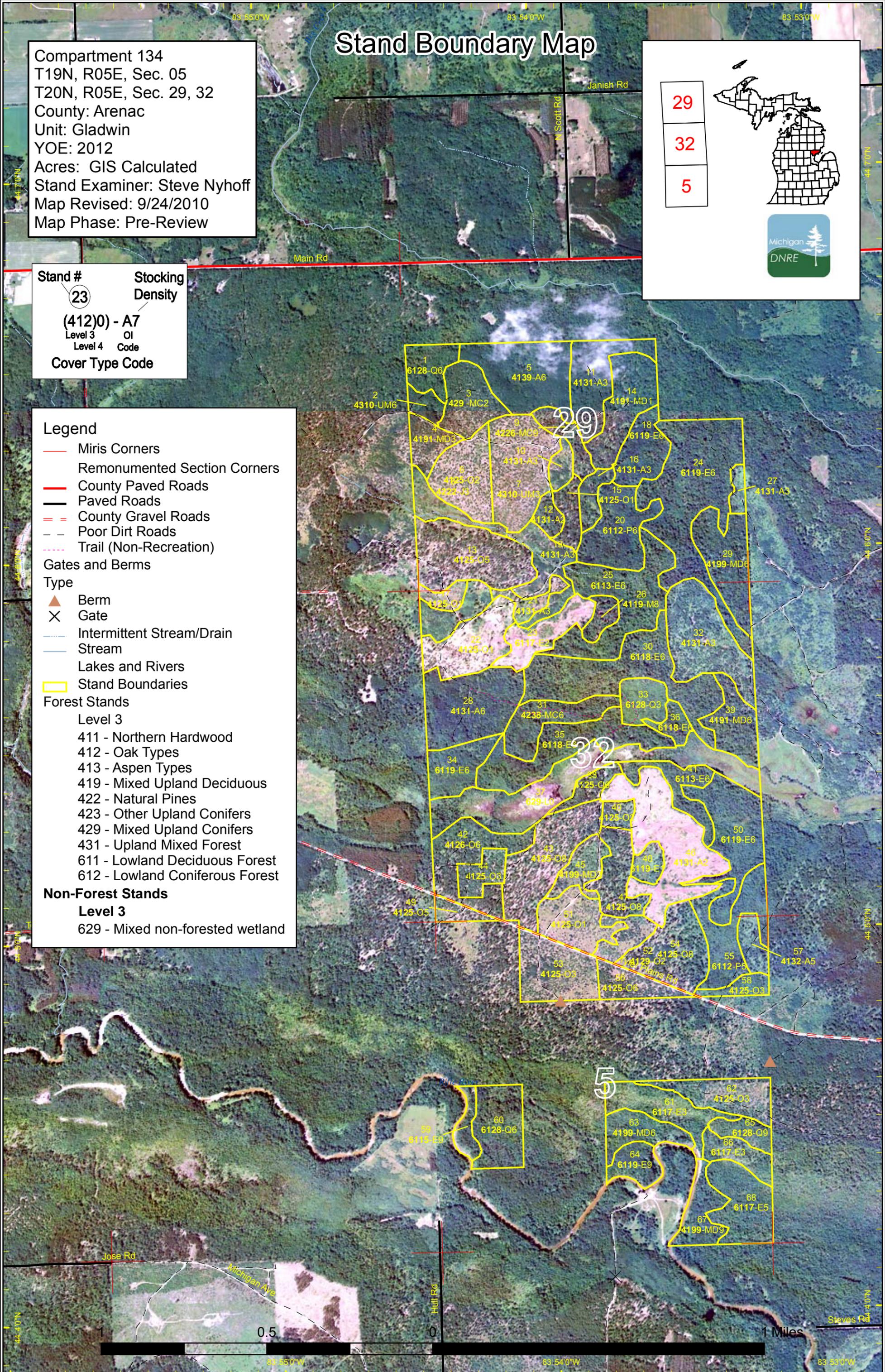
29
 32
 5



Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

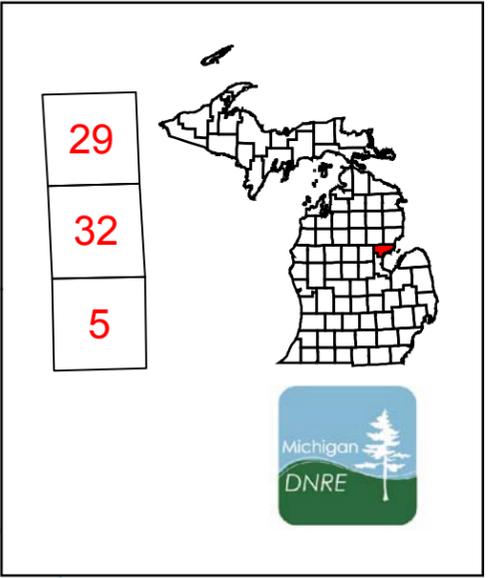
Legend

- Miris Corners
 - Remonumented Section Corners
 - County Paved Roads
 - Paved Roads
 - = County Gravel Roads
 - - Poor Dirt Roads
 - - - Trail (Non-Recreation)
- Gates and Berms**
- Type
- ▲ Berm
 - X Gate
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
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- Non-Forest Stands**
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- 629 - Mixed non-forested wetland



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 T20N, R05E, Sec. 29, 32
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Dedicated & Proposed Special Conservation Area Map



Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Miris Corners
- Remonumented Section Corners
- Proposed Special Conservation Areas
 - SCA - Special Conservation Area
 - SCA Removal
- Dedicated Special Conservation Areas
 - Natural Rivers Zoning District
 - Natural Rivers Vegetative Buffer
 - Cold Water Streams
- Stand Boundaries
- Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
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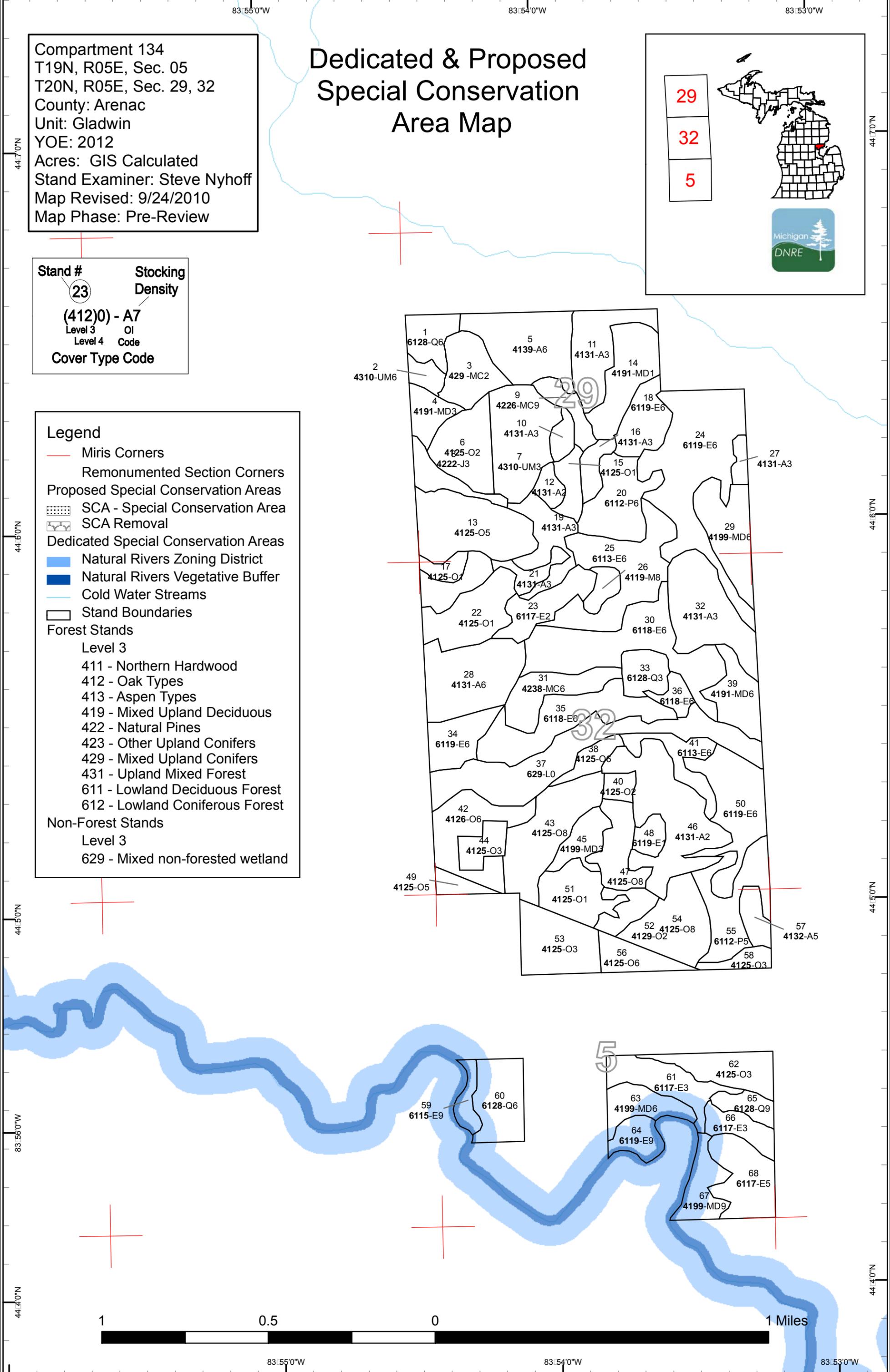
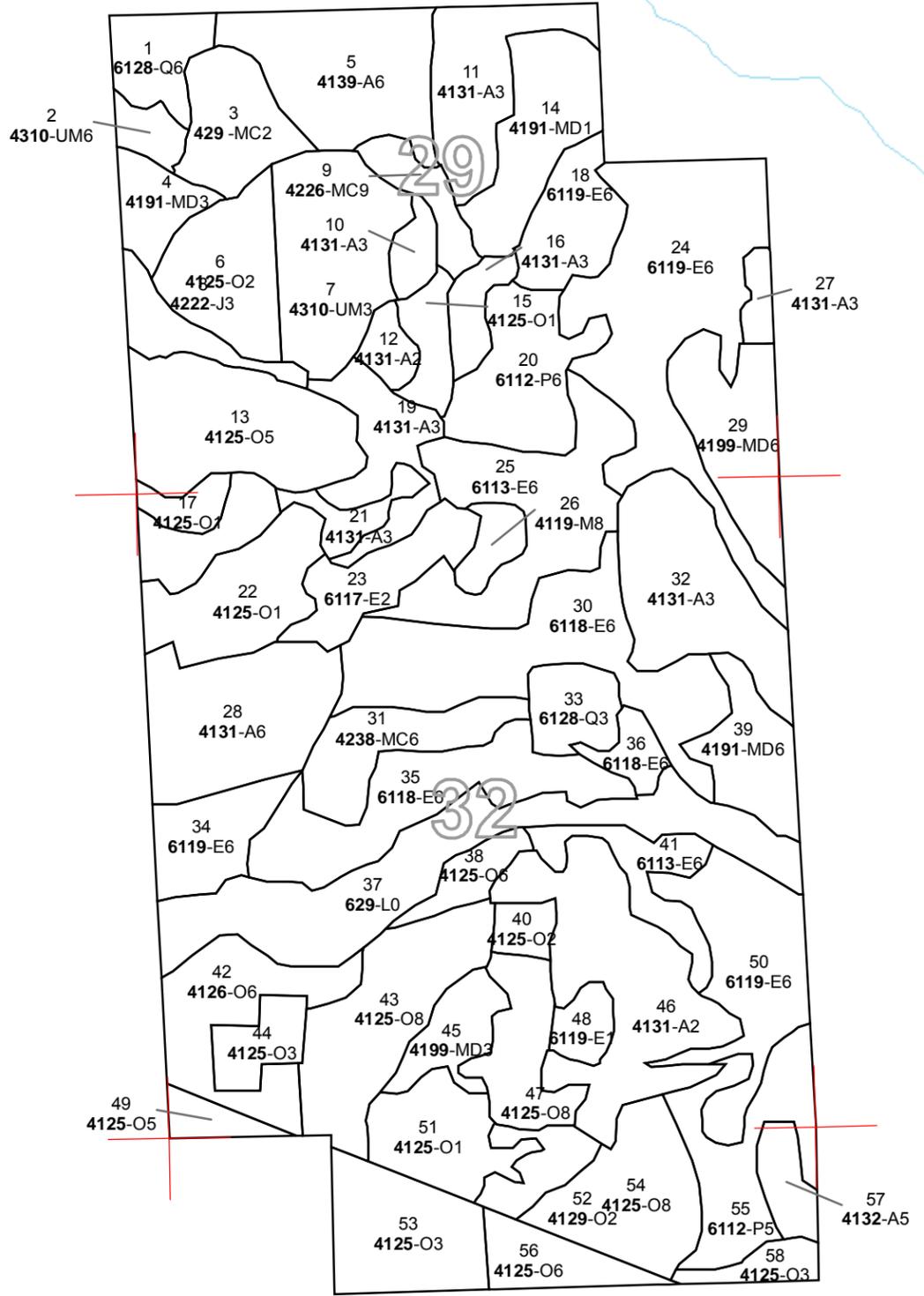


Table 1 – Total Acres by Cover Type and Age Class

Data updated before 10:00 AM



	Age Class														Total	
	Non-Forested	1-9	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	0	78	83	45	0	44	0	0	0	0	0	0	0	0	0	250
Jack Pine	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	0	0	0	26	27	0	0	0	0	0	0	0	0	0	53
Lowland Conifers	0	0	0	12	0	0	0	0	0	0	0	0	0	0	43	55
Lowland Deciduous	0	17	17	0	33	0	0	0	27	0	24	0	0	0	257	376
Lowland Shrub	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Mixed Upland Deciduous	0	26	22	0	0	0	0	0	40	17	0	0	0	0	15	119
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Northern Hardwood	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Oak	0	34	106	38	0	0	0	0	0	99	0	0	0	0	56	332
Upland Conifers	0	0	19	0	0	0	0	0	0	19	0	0	0	0	0	39
Upland Mixed Forest	0	0	36	0	5	0	0	0	0	0	0	0	0	0	0	41
Total	55	155	293	94	65	71	0	0	66	142	24	0	0	0	380	1345



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Gladwin Mgt. Unit
Year of Entry 2012

Compartment 134
Total Compartment Acres: 1345

Acres by Treatment Type

Commercial Harvest - 127	Site Prep - 0	Tree Planting - 46	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	8	0	0	0	0	0	8
Oak	18	0	102	0	0	0	119
Total	25	0	102	0	0	0	127



Data updated before 10:00 AM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13 73134013-Cut	38.6	4125 - Black, N. Pin Oak	Medium Density Pole	86	Harvest	Seed Tree	Black, N. Pin Oak	Cmpt. Review Proposal

Prescription: Seed tree harvest retaining 10 to 20 BA. Favor the retention of oak and pine.
Specs:
Other Comments: Stand has pockets of good advance regeneration that should be protected were possible if not cut trees
Next Steps: Stand should regenerate to a mix of oak and pine if not interplant red pine.

38 73134038-Cut	7.4	4125 - Black, N. Pin Oak	High Density Pole	81	Harvest	Seed Tree	Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription: 4" spec clearcut marking 10 BA for retention. The retention should be a mixture of species favoring oak and pine.
Specs:
Other Comments:
Next Steps: Stand is expected to regenerate to a mixture of oak, pine, maple, and mixed conifers.

42 73134042-Cut	27.4	4126 - White, Black, N. Pin Oak	High Density Pole	85	Harvest	Seed Tree	White, Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription: Harvest the stand as a heavy seed tree harvest retaining 20 to 30 BA of mostly oak but eliminated now one species.
Specs:
Other Comments: Stand has had some dead oak harvest completed in the past so there are pockets of regeneration.
Next Steps: The stand is expected to regenerate to a mixture of oak and conifer. If not interplant red pine.

47 73134047-Cut	17.6	4125 - Black, N. Pin Oak	Medium Density Log	85	Harvest	Clearcut with Reserves	Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription: Final harvest to 4" DBH marking 1 to 2 oaks per acre for retention. In addition leave all conifers they make up less than 3% crown closure.
Specs:
Other Comments:
Next Steps: Stand is expected to regenerate to a mixture of oak, maple and conifers. If not interplant jack pine.

54 73134054-Cut	28.3	4125 - Black, N. Pin Oak	Medium Density Log	82	Harvest	Seed Tree	Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription: Harvest the stand as a seed tree retaining 10 - 20 BA. Retain a mixture of oak and conifers.
Specs:
Other Comments:
Next Steps: The stand is expected to regenerate to a mixture of oak and pine, if not interplant jack pine.

57 73134057-Cut	7.8	4132 - Aspen, Jack Pine	Medium Density Pole	44	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
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Prescription: Final harvest with out reserves because of the small size and low tree vigor and quality.
Specs:
Other Comments:
Next Steps: Stand is expected to regenerate to aspen, if not interplant jack pine.



Data updated before 10:00 AM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22 73134022-Plant	25.7	4125 - Black, N. Pin Oak	Low Density Sapling	5	Tree Planting	Hand Plant	Black, N. Pin Oak	Cmpt. Review Proposal

Prescription. Plant sparse area in the stand to bring up to full stocking.

Specs:

Other

Comments:

Next

Steps:

51 73134051-Plant	20.0	4125 - Black, N. Pin Oak	Low Density Sapling	17	Tree Planting	Hand Plant	Black, N. Pin Oak	Cmpt. Review Proposal
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Prescription. Stand is sparse so interplant jack pine to bring to full stocking.

Specs:

Other

Comments:

Next

Steps:

**Total Treatment
Acreage Proposed: 172.7**



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Data updated before 10:00 AM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

Data updated before 10:00 AM

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2012



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.6	Uneven Age	111-140	The stand has a lot of blow down. The stand is regenerating with a thick layer of balsam fir.
2	4310 - Pine, Oak Mix	High Density Pole	5.5	36		The stand is very mixed.
3	429 - Mixed Upland Conifers	Medium Density	19.5	17		The stand is on a ridge that is a mixture of oak, aspen, and pine. The pine increases in amount going north.
4	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	10.4	17		In the stand the crown closer is fairly evenly split between jack pine, oak and aspen. However, the distribution is not even it grades from high density area to another.
5	4139 - Aspen, Mixed Deciduous	High Density Pole	36.2	43	81-110	Stand is fairly homogenous in aspen cover but patchy in white pine, maple, and oak. The ground is somewhat undulating but not a great difference in elevation.
6	4125 - Black, N. Pin Oak	Medium Density	24.1	17		Stand swapped from Non-Forested to Forested. Stand is heavy to stump sprouts oak with some seed source oak. The amount of conifer cover is less than the surrounding stands.
7	4310 - Pine, Oak Mix	High Density Sapling	35.9	17		The stand is fairly thick and even mixture of jack pine and oak. There are some areas of greater density of jack pine and areas of oak but overall is even. About 50% of the jack pine has semi-serotinous cones so some natural seeding is occurring.
8	42221 - Natural Jack Pine, Mixed Deciduous	High Density Sapling	10.1	17		Stand swapped from Non-Forested to Forested. The stand was burned. It is in a swale and the central portion is a narrow lowland. Most of the stand is upland. The upland ground cover is blueberry and bracken fern and the lowland is leather leaf and blueberry.
9	42260 - Natural Pine, Mixed Deciduous	High Density Log	9.0	Uneven Age	81-110	The stand was burned and because of that it is variable going from seedlings to logs.
10	4131 - Aspen, Oak	High Density Sapling	5.3	17		
11	4131 - Aspen, Oak	High Density Sapling	24.5	4		The stand is undulating and grades into the oak stand to the east.
12	4131 - Aspen, Oak	Medium Density	5.2	5		New stand added. The stand is regenerating quite well though areas are hard to tell because of the thick which hazel present.
13	4125 - Black, N. Pin Oak	Medium Density Pole	38.6	86	51-80	The stand has been harvested in the past by dead oak removal. Currently the overstory is variable going from well to poorly stocked. Also the regeneration goes from fully to poorly stocked. There is good regeneration in the opening in the stand.
14	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	25.5	4		The stand is undulating with many open areas. The aspen in the stand is in pockets

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Gladwin Mgt. Unit

5 – Forested Stands

Data updated before 10:00 AM

Compartment: 134
Year of Entry: 2012

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4125 - Black, N. Pin Oak	Low Density Sapling	8.5	5		New stand added. Stand is regenerating but is some what patchy.
16	4131 - Aspen, Oak	High Density Sapling	7.2	28		Stand was harvested leaving 4" oak. The poles are in patches. There is also a small wet opening in the southern half of the stand. However, that portion is less than 1/2 acre in size.
17	4125 - Black, N. Pin Oak	Low Density Sapling	5.4	17		Stand swapped from Non-Forested to Forested.
18	6119 - Mixed Lowland Deciduous Forest	High Density Pole	16.9	39	81-110	The stand is a mixture of upland and lowland with the lowland making up the greater percentage. It appears to dry in late summer.
19	4131 - Aspen, Oak	High Density Sapling	30.3	17		
20	6112 - Lowland Aspen	High Density Pole	26.1	39	51-80	New stand added, The stand is seasonably wet. It appears to dry out in late summer. Currently there is a lot of downed aspen in the stand probably due natural thinning.
21	4131 - Aspen, Oak	High Density Sapling	6.6	18		
22	4125 - Black, N. Pin Oak	Low Density Sapling	25.7	5		Stand swapped from Non-Forested to Forested. The stand has some regeneration and it is around 25%. There are a lot of open areas in the stand.
23	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	17.2	5		Stand was swapped from non-forested to forested. The stand is undulating going for droughty knolls to wet lowland shrubs. Overall there is more lowland then upland. The red maple and oak is heavily browsed by deer.
24	6119 - Mixed Lowland Deciduous Forest	High Density Pole	65.3	Uneven Age		The north end of the stand has the overstory coming down and is being replaced by balsam fir, red maple, and ash. The south end looks fairly good and has a thick layer of advance regeneration of red maple.
25	6113 - Lowland Maple	High Density Pole	40.7	Uneven Age	51-80	
26	4119 - Mixed Northern Hardwoods	Medium Density Log	6.1	84	51-80	New stand added. The stand was harvested in 2005 as a selection.
27	4131 - Aspen, Oak	High Density Sapling	4.0	18		
28	4131 - Aspen, Oak	High Density Pole	37.6	24	81-110	The stand is hummocky but overall seems to be more upland than lowland. The lowland is more common in the southern portion of the stand.
29	4199 - Other Mixed Upland Deciduous	High Density Pole	25.6	74	81-110	The stand has a drainage going through it. Access to the stand would be off Black Road and an low weight bridge.



Data updated before 10:00 AM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	6118 - Lowland Deciduous with Cedar	High Density Pole	51.2	Uneven Age	1-50	New stand added. The stand is hummocky and wet. There is some scattered hemlock.
31	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	19.5	87	200+	New stand added. The stand is a dry knob heavy to hemlock and white pine. There is very little blow down. There is a small portion of the stand that lacks the conifers and is mainly red maple.
32	4131 - Aspen, Oak	High Density Sapling	36.8	15		
33	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	11.5	26		The stand was harvested and has regenerated well. Cedar regeneration is present but not extensive.
34	6119 - Mixed Lowland Deciduous Forest	High Density Pole	16.1	30		The stand is hummocky and is a mixture of upland and lowland with the lowland making up 75%.
35	6118 - Lowland Deciduous with Cedar	High Density Pole	35.6	Uneven Age	51-80	stand has lots of blow down. The overstory is heavily to maple, ash and quaking aspen. There are significant pockets of cedar mixed with hemlock and maple.
36	6118 - Lowland Deciduous with Cedar	High Density Pole	5.9	75		Stand swapped from Non-Forested to Forested.
38	4125 - Black, N. Pin Oak	High Density Pole	7.4	81	51-80	New stand added.
39	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	17.2	82	51-80	
40	4125 - Black, N. Pin Oak	Medium Density Pole	4.9	24	1-50	The stand is mainly saplings converting to poles. There is some younger seedings present.
41	6113 - Lowland Maple	High Density Pole	14.3	Uneven Age	81-110	The stand is generally hummocky and has many drainages going north. Some of the areas has high mortality because of past beaver activities.
42	4126 - White, Black, N. Pin Oak	High Density Pole	27.4	Uneven Age	51-80	The stand has had the dead oak harvested and now looks like a shelter wood harvest. Trees go from seedings to logs.
43	4125 - Black, N. Pin Oak	Medium Density Log	35.4	85	1-50	The north end of the stand has a significant amount of balsam fir and white pine. There is not much conifers along Tylers Plains Road. Regeneration is patchy but fair overall.
44	4125 - Black, N. Pin Oak	High Density Pole	9.4	26	1-50	
45	4199 - Other Mixed Upland Deciduous	High Density Sapling	11.6	17		New stand added. This stand was part of the preinventory stand 42. This portion of the stand has a significantly greater density and canopy closure. SI 55 oak



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4131 - Aspen, Oak	Medium Density	48.7	5		Ground cover is a mixture of blueberry, bracken fern, and sedge. The aspen in the stand is located in the middle portion of the stand. The area that is aspen is fully stock. The north end and south end are heavy to oak. These area are at a medium stocking. The oak in the stand shows signs of heavy deer browsed. SI 60 oak
47	4125 - Black, N. Pin Oak	Medium Density Log	17.6	85	1-50	The stand has had numerous dead oak removals and now looks like a shelter wood harvest. Regeneration is variable going from seedlings to 3" saplings.
48	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	6.0	18		Stand swapped from Non-Forested to Forested. The stand is hummocky. The trees are variable going from seedlings to logs most are sapling. The area appears to be wet in the spring but dries out mid to late summer.
49	4125 - Black, N. Pin Oak	Medium Density Pole	5.3	27	1-50	
50	6119 - Mixed Lowland Deciduous Forest	High Density Pole	33.4	Uneven Age	51-80	New stand added. The stand is hummocky and variable going from seedlings to Xlogs. Most of the trees are saplings and poles. Along the drainages the stand is more of a E3/L the edges that drain into the E3/L are more of a E6.
51	4125 - Black, N. Pin Oak	Low Density Sapling	20.0	17		Stand swapped from Non-Forested to Forested. The stand is sparse with the ground cover of sedge, sweet fern, blueberry, and blackberry. SI 55 oak
52	4129 - Mixed Oak	Medium Density	9.6	17		New stand added. The stand areas of fully stocked oak and cherry. However, there are also scattered opening.
53	4125 - Black, N. Pin Oak	High Density Sapling	26.9	19		The aspen in the stand is located in a pocket that's about 2.5 acres in size. There is also some exotic norway spruce and scotts pine present. The stand is well stocked along Tylers Plains Road but poorly stocked along the private line. SI 55 aspen
54	4125 - Black, N. Pin Oak	Medium Density Log	28.3	Uneven Age	1-50	Stand was shelter wooded and is now having some regeneration. There is a patch of aspen and oaks that are pushing poles. The area is < 5 acres so it was not separated out.
55	6112 - Lowland Aspen	Medium Density Pole	26.7	44	81-110	The stand is hummocky with areas of L-Type scattered along the drainages. There is some mortality in the aspen.
56	4125 - Black, N. Pin Oak	High Density Pole	12.3	27	1-50	The stand's regeneration is mostly stump sprouts. The trees are just moving into poles there is alot of smaller diameter trees still on site. The ground cover is mainly blueberry with some blackberry. SI 55 oak
57	4132 - Aspen, Jack Pine	Medium Density Pole	7.8	44	1-50	Stand is hummocky. The aspen in the stand is of poor quality and the it has a high mortality in the north end of the stand.

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 134

Data updated before 10:00 AM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	4125 - Black, N. Pin Oak	High Density Sapling	6.0	27	1-50	The stand has a two aged look to it. There are 27 year old oak stump sprout that a pushing poles and there is and there is a heavy growth of trees around 1" diameter.
59	6115 - Lowland Ash	High Density Log	6.6	Uneven Age		Stand is on the flood plains of the Rifle River.
60	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	22.8	Uneven Age		The stand has very heavy blow down through out the stand especially hard hit were the conifers, cedar and balsam fir. There is some regeneration of cedar and hemlock in areas of heavy blow down.
61	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	20.7	70		The stand is mixture of upland and lowland with the lowland making up the majority. It is dissected by numerous drainage that feed into the Rifle River. The drainage are in ravines especially along the river.
62	4125 - Black, N. Pin Oak	High Density Sapling	19.7	16		The stand is on a ridge overlooking flood plains of the Rifle River. The trees are dense at the west end and get sparser going east.
63	4199 - Other Mixed Upland Deciduous	High Density Pole	14.3	70		New stand added. This stand is main on a ridge that over look the flood plain of the Rifle River. There is a significant drainage flowing through the southern edge of the stand.
64	6119 - Mixed Lowland Deciduous Forest	High Density Log	10.2	Uneven Age	141-170	Most of the stand is on the flood plain of the Rifle River as such it is a mixture of dry and wet ground. The edge of the stand to the north is a steep bank that is about 15 to 20 feet.
65	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	7.9	Uneven Age	171-200	The stand has significant amount of blow down along the south edge. There are a number of spings in the stand.
66	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	11.0	17		East end of the stand mainly paper birch tag alder and balsam fir some scattered red maple. There is heavy blow down present in the stand.
67	4199 - Other Mixed Upland Deciduous	High Density Log	14.6	Uneven Age	81-110	Most of the stand is located on a ridge above the Rifle River. There is a portion in the flood plains of the river but it is < 5 acres in size.
68	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	24.5	96	1-50	The stand is a mixture of L-Type and E-Type. It is heavy to cottonwood in the southern end of the stand and goes to ash and balsam fir going north.



Stand	Cover Type	Acres	Gen Cmts:
37	629 - Mixed non-forested wetland	54.8	This area is the basin that a creek flows through. This drainage has intermittent beaver ponds. There for it is a mixture of open water, beaver meadow, lowland shrub and marsh.



7 – 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.

Data updated before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Data updated before 10:00 AM

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
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.