



# COMPARTMENT REVIEW PRESENTATION

## GAYLORD FOREST MANAGEMENT UNIT

**COMPARTMENT: 171**

**ENTRY YEAR: 2014**

**ACREAGE: 1,738**

**COUNTY: Cheboygan**

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**Revision Date:** 05/08/2012

**Stand Examiner:** John Scheele

**Legal Description:** T33N – R02W Sections 1 - 3, 10, and 11

**Management Goals:** To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

**Soil and Topography:** There are 2 general soil type associations in the compartment. The Rubicon-East Lake Association soils are located in the central and eastern parts of the compartment and are somewhat excessively to excessively drained soils. The Cheboygan-Blue Lake Association soils are located in the western part of the compartment and are moderately to well drained soils. The topography consists of level to gently rolling terrain.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The north and east boundary of the compartment is adjacent to large, contiguous state and private ownership that has very limited development. The south and west boundaries are adjacent to smaller, private residential and absentee ownerships with some development.

**Unique, Natural Features:** The Natural Features Inventory database indicated a good potential for Red-shouldered hawk with nesting confirmed to the west and east of the compartment. Also potential for northern goshawk with nesting confirmed just north and southeast of the compartment. The 3-striped oncocnemis has been recorded to the northeast. A dry mesic northern forest occurrence is along Webb road to the east (Pigeon River Pine Tract). Goblin fern occurrence is to the north. Potential for rare plants of rich mesic forests include: Carex assiniboinensis, showy orchid, Ginseng, and Goblin Fern. Potential for calypso bulbosa, round leaved orchid, limestone oak fern and Cyripedium arietinum in lowland cover types. Potential for rare plants of dry northern forest and dry mesic northern forest include: Dalibarda repens and pine drops.

**Archeological, Historical, and Cultural Features:** A search of the Archeological Sites database indicated no concerns. There is archeology potential throughout the compartment.

**Special Management Designations or Considerations:** None

**Watershed and Fisheries Considerations:** This compartment is in the Little Pigeon River watershed and Little Sturgeon River watershed. It contains a couple of small lakes (Corey Lake and a small unnamed lake), as well as part of the Little Sturgeon River. Prescribed treatments are appropriate for protection of these waterbodies.

**Wildlife Habitat Considerations:** This compartment consists mostly of upland areas containing oak, mixed aspen/oak, hardwoods and red and jack pine along with two lowland areas associated with the Little Pigeon River and Corey Lake. These lowland areas support a variety of species including black bear, white-tailed deer, furbearers, and various amphibians. Harvests will concentrate on regenerating the oak for future mast production while leaving clumps and individual islands of oak for current mast production and as a seed source. There will also be some aspen treated to diversify the aspen age classes within the compartment. This early successional habitat will benefit white-tailed deer, elk, wild turkey, grouse, woodcock and various songbirds. This area receives significant hunting pressure for white-tailed deer, grouse, woodcock, and wild turkey.

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

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 100 and 400 feet. The Devonian Antrim Shale subcrops below the glacial drift and is quarried for cement products. The nearest gravel pit is located two miles to the south, but the uplands appear to have good potential. The nearest oil and gas production, the Guelph (former Niagaran) reef trend, is located three miles to the south. The Compartment is leased for the Collingwood/Utica Shale Formations exploration.

**Vehicle Access:** There is good vehicle access throughout the compartment via Webb, Munger, and Congdon Roads. There are also a number of county and state seasonal, forest roads within the compartment.

**Survey Needs:** There will be some survey work required to establish boundary corners for prescribed treatments. Some property corners may need to be established in sections 1, 3, 10, and 11. A fence location trespass issue with a private ownership may also be a concern in section 1. A portion of the fence appears to be in the wrong location, limiting access to a prescribed stand.

**Recreational Facilities and Opportunities:** There are no designated recreational trails within the compartment. Other various outdoor recreational opportunities exist with hunting being the most dominate activity.

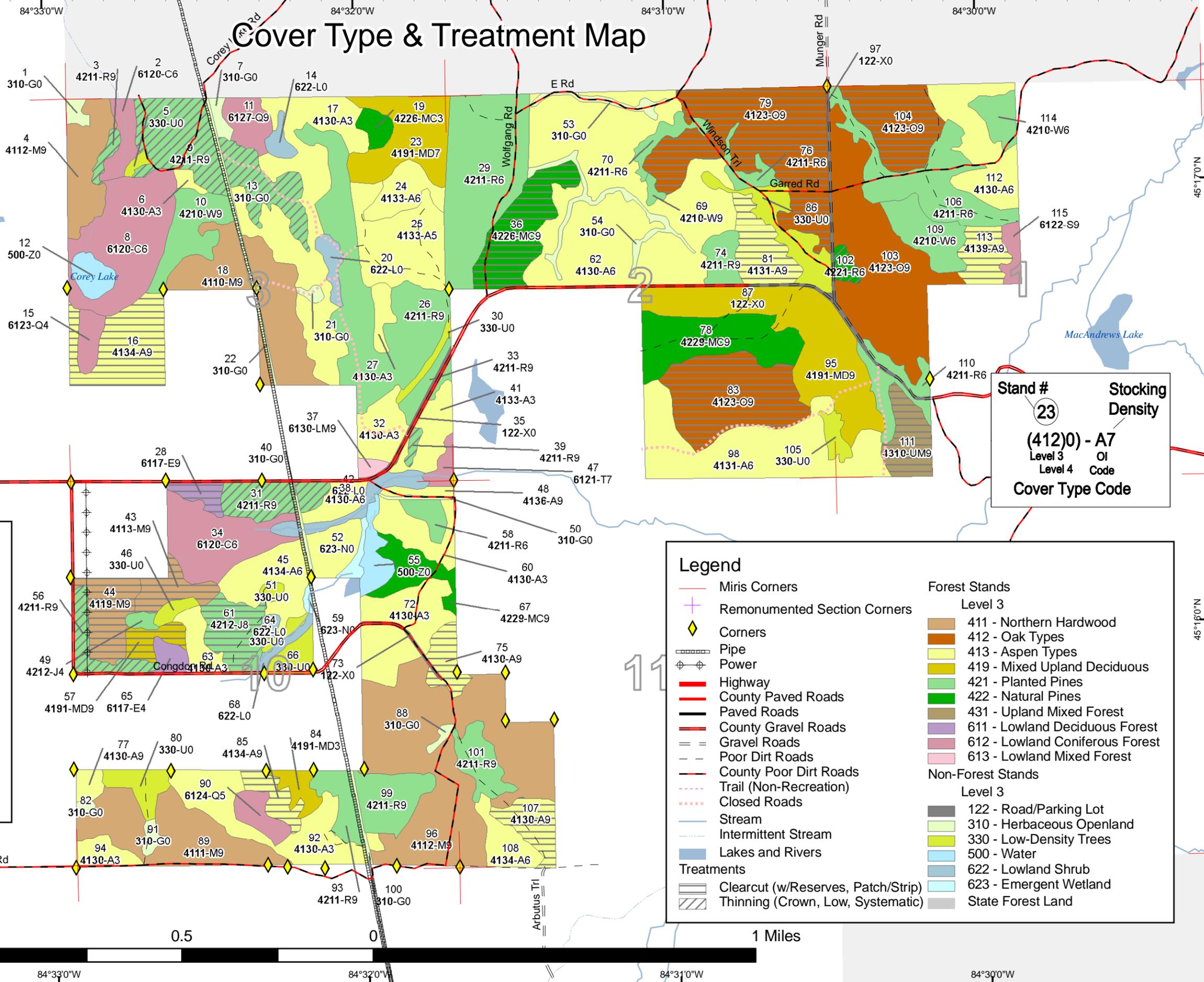
**Fire Protection:** There is some minor wildfire concerns with the over-mature Jack Pine stand in section 10.

### **Additional Compartment Information:**

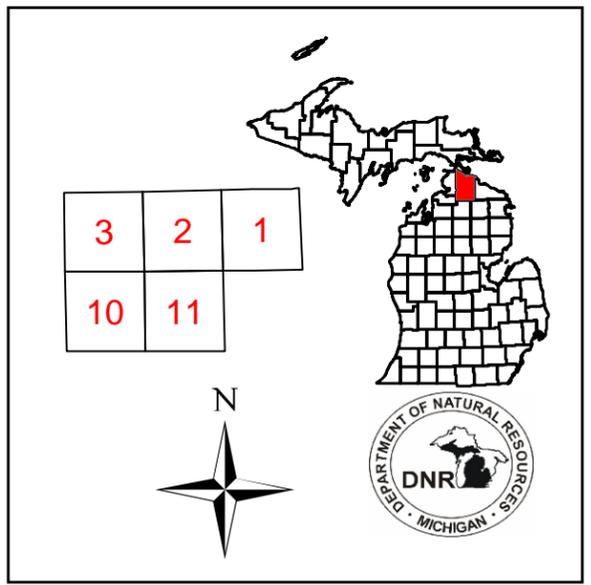
- **The following 3 reports from the IFMAP Inventory System are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand numbers, cover types**
  - ◆ **Proposed treatments**
  - ◆ **Proposed road access system**
  - ◆ **Suggested potential and current SCA's**

# Cover Type & Treatment Map

Compartment: 171  
 T33N R02W Sec. 1 - 3, 10, 11  
 County: Cheboygan  
 Unit: Gaylord  
 YOE: 2014  
 Acres: 1,738 GIS Calculated  
 Examiner: John Scheele  
 Map Revised: 05/16/2012  
 Map Phase: Pre-Review



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



### Legend

<ul style="list-style-type: none"> <li>— Miris Corners</li> <li>— Remonumented Section Corners</li> <li>◆ Corners</li> <li>— Pipe</li> <li>— Power</li> <li>— Highway</li> <li>— County Paved Roads</li> <li>— Paved Roads</li> <li>— County Gravel Roads</li> <li>— Gravel Roads</li> <li>— Poor Dirt Roads</li> <li>— County Poor Dirt Roads</li> <li>— Trail (Non-Recreation)</li> <li>— Closed Roads</li> <li>— Stream</li> <li>— Intermittent Stream</li> <li>— Lakes and Rivers</li> </ul>	<ul style="list-style-type: none"> <li>— Treatments</li> <li>— Clearcut (w/Reserves, Patch/Strip)</li> <li>— Thinning (Crown, Low, Systematic)</li> </ul>
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<b>Forest Stands</b> <b>Level 3</b> <ul style="list-style-type: none"> <li>411 - Northern Hardwood</li> <li>412 - Oak Types</li> <li>413 - Aspen Types</li> <li>419 - Mixed Upland Deciduous</li> <li>421 - Planted Pines</li> <li>422 - Natural Pines</li> <li>431 - Upland Mixed Forest</li> <li>611 - Lowland Deciduous Forest</li> <li>612 - Lowland Coniferous Forest</li> <li>613 - Lowland Mixed Forest</li> </ul>	<b>Non-Forest Stands</b> <b>Level 3</b> <ul style="list-style-type: none"> <li>122 - Road/Parking Lot</li> <li>310 - Herbaceous Openland</li> <li>330 - Low-Density Trees</li> <li>500 - Water</li> <li>622 - Lowland Shrub</li> <li>623 - Emergent Wetland</li> <li>State Forest Land</li> </ul>
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# Stand Boundary Map

Compartment: 171  
 T33N R02W Sec. 1 - 3, 10, 11  
 County: Cheboygan  
 Unit: Gaylord  
 YOE: 2014  
 Acres: 1,738 GIS Calculated  
 Examiner: John Scheele  
 Map Revised: 05/16/2012  
 Map Phase: Pre-Review

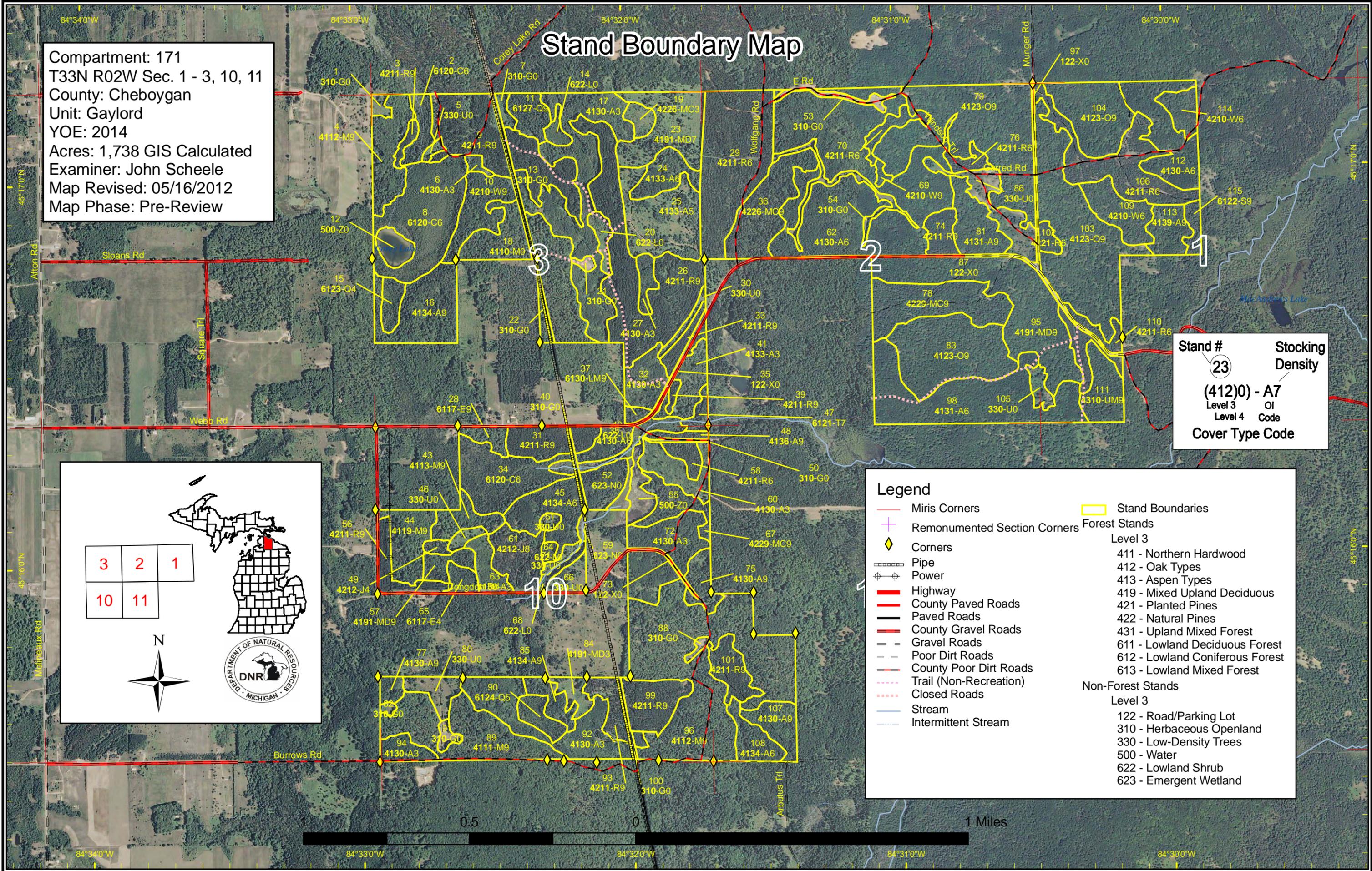
**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

## Legend

- Miris Corners
  - Remonumented Section Corners
  - Corners
  - Pipe
  - Power
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Closed Roads
  - Stream
  - Intermittent Stream
  - Stand Boundaries
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
  - 412 - Oak Types
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 421 - Planted Pines
  - 422 - Natural Pines
  - 431 - Upland Mixed Forest
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 330 - Low-Density Trees
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland

3	2	1
10	11	

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**Table 1 – Total Acres by Cover Type and Age Class**



	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	20	143	43	96	141	0	0	10	71	16	0	0	0	0	540
Cedar	0	0	0	0	0	0	0	0	36	0	41	0	0	0	77
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Jack Pine	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Low-Density Trees	44	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Lowland Conifers	0	0	0	6	0	0	0	7	0	9	0	0	0	0	22
Lowland Deciduous	0	0	0	0	0	4	0	0	0	5	0	0	0	0	10
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Lowland Shrub	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	6	0	0	0	0	0	0	0	6	0	0	0	0	81	93
Natural Mixed Pines	4	0	0	0	0	0	0	31	26	0	0	0	0	11	73
Northern Hardwood	0	0	0	0	0	0	0	16	69	136	0	0	0	0	222
Oak	0	0	0	0	0	0	0	0	0	42	26	0	0	131	199
Red Pine	0	0	0	0	0	285	9	0	0	0	0	0	0	0	294
Tamarack	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	0	41	0	0	0	0	0	0	0	0	41
<b>Total</b>	<b>156</b>	<b>143</b>	<b>43</b>	<b>102</b>	<b>141</b>	<b>331</b>	<b>28</b>	<b>67</b>	<b>213</b>	<b>210</b>	<b>67</b>	<b>0</b>	<b>0</b>	<b>238</b>	<b>1738</b>



## Table 2 – Proposed Treatment Summaries

**Gaylord Mgt. Unit**  
**Year of Entry 2014**

**Compartment 171**  
**Total Compartment Acres: 1738**

### Acres by Treatment Type

Commercial Harvest - 383	Site Prep - 0	Tree Planting - 0	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
<b>Aspen</b>	80	0	0	0	0	0	0	<b>80</b>
<b>Jack Pine</b>	15	0	0	0	0	0	0	<b>15</b>
<b>Lowland Deciduous</b>	5	0	0	0	0	0	0	<b>5</b>
<b>Mixed Upland Deciduous</b>	6	0	0	0	0	0	0	<b>6</b>
<b>Natural Mixed Pines</b>	26	0	0	0	0	0	0	<b>26</b>
<b>Northern Hardwood</b>	26	0	0	0	0	0	0	<b>26</b>
<b>Oak</b>	136	0	0	0	0	0	0	<b>136</b>
<b>Red Pine</b>	0	0	0	0	74	0	0	<b>74</b>
<b>Upland Mixed Forest</b>	14	0	0	0	0	0	0	<b>14</b>
<b>Total</b>	<b>309</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>74</b>	<b>0</b>	<b>0</b>	<b>383</b>



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9	52171009-RPThin	43.1	42110 - Planted Red Pine	High Density Log	56	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin to 110 - 130 BA. Retention will be included in residual Red Pine.										
<u>Specs:</u>										
<u>Other Comments:</u> Current BA = 170 and was thinned in 1994. Pockets of high and low basal areas and pockets of high and medium understory.										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
16	52171016-CCWR	27.5	4134 - Aspen, Spruce/Fir	High Density Log	80		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. Put retention areas around lowland pockets to minimize rutting.										
<u>Specs:</u>										
<u>Other Comments:</u> Larger aspen is dying out and Balsam Fir is blowing over. Some pockets of lower ground are in the southeast corner and along west boundary of the stand. Survey work may be needed to establish private boundaries.										
<u>Next Steps:</u> Regeneration survey.										
<u>Proposed Start Date:</u> 10/01/2013										
28	52171028-CCWR	5.1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	90		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. Leave Hemlock, White Pine, Cedar and Spruce for retention. Cut in winter or dry summer to minimize rutting near drainage. No within stand retention recommend due to small stand size.										
<u>Specs:</u>										
<u>Other Comments:</u> Balsam fir is dying out and falling over. Small drainage in center of stand which flows to the south.										
<u>Next Steps:</u> Regeneration survey. Acceptable regeneration includes a moderate to well stocked mix of aspen, maple, and conifer species.										
<u>Proposed Start Date:</u> 10/01/2013										
31	52171031-RPThin	14.7	42110 - Planted Red Pine	High Density Log	50	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin to 110 - 130 RBA. Concentrate marking on defective or low quality trees. Retention is included in residual Red Pine.										
<u>Specs:</u>										
<u>Other Comments:</u> Current BA = 180. Nice quality Red Pine that was thinned in 2004.										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
36	52171036-CCWR	26.2	42260 - Natural Pine, Mixed Deciduous	High Density Log	80	111-140	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> Final harvest stand to regenerate. Mark the denser areas of Red Pine in the north and central part of the stand down to 70 feet of BA to leave.										
<u>Specs:</u> Also mark leave trees of White and Red Pine through the rest of stand. Mark these leave trees in clumps or individually. Leave a visual barrier along Webb Road. No landings in managed wildlife openings.										
<u>Other Comments:</u> Current BA = 130. Tall, nice quality Red Pine with pockets of higher basal area.										
<u>Next Steps:</u> Regeneration survey.										
<u>Proposed Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	52171039- RPTthin	1.5	42110 - Planted Red Pine	High Density Log	53	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Third row thin. Retention is included in residual Red Pine.										
<u>Specs:</u>										
<u>Other</u> Current BA = 183.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
43	52171043-CC	9.7	4113 - R.Maple, Conifer	High Density Log	85	111-140	Harvest	Clearcut	4113 - R.Maple, Conifer	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. No retention because of small stand size.										
<u>Specs:</u>										
<u>Other</u> Current BA = 120. Poor quality, multi-stemmed Red Maple. Beech scale is present. Stand is located between upland and lowland cedar to the north.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
44	52171044- CCWR	16.1	4119 - Mixed Northern Hardwoods	High Density Log	75	81-110	Harvest	Clearcut with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. Leave the few individual large White Pine trees. Mark some smooth barked beech trees and non-EAB ash trees for reserves.										
<u>Specs:</u>										
<u>Other</u> Current BA = 100. Low quality hardwood is branchy and multi-stemmed. Heavy Beech Scale and EAB is present										
<u>Comments:</u>										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a moderate to well stocked mix of deciduous species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
56	52171056- RPTthin	9.5	42110 - Planted Red Pine	High Density Log	61	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark to 110 - 130 BA. Concentrate marking on defective trees. Also cut any Jack Pine that is still living. Retention is included in residual Red Pine trees.										
<u>Specs:</u>										
<u>Other</u> Current BA = 180 and thinned in 1984. Tall, nice quality Red Pine. Jack Pine dying out. A power line runs along the east boundary and then through the north part of stand. 10 - 20 feet spacing between rows.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
57	52171057- CCWR	6.4	4191 - Mixed Upland Deciduous with Conifer	High Density Log	85		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. Do not cut spruce or pine species in northeast corner of stand as retention.										
<u>Specs:</u>										
<u>Other</u> Northeast side of stand has a higher component of spruce and some large White Pine. Leave this if cutting stand.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a moderate to well stocked mix of deciduous and conifer species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61	52171061-CC	15.1	42120 - Planted Jack Pine	Medium Density Log	61		Harvest	Clearcut	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Final harvest stand and replant to Red Pine. No within stand retention. For woody biomass requirement, leave closer to the 1/6. Maintain 100 ft.										
<u>Specs:</u> buffer to creek as shown by treatment area.										
<u>Other</u> Very poor quality Jack Pine that is very branchy. 10 - 20% of the pine is dead and falling over.										
<u>Comments:</u>										
<u>Next</u> Trench and replant to Red Pine.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
75	52171075- CCWR	8.2	4130 - Aspen	High Density Log	85		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Cut stand to regenerate. Leave White Pine trees. No within stand retention recommended because of small stand size.										
<u>Specs:</u>										
<u>Other</u> Big Tooth Aspen dying out. Heavy EAB present in a 18 DBH ash tree and in understory sapling ash.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
79	52171079- CCWR	68.2	4123 - Red Oak	High Density Log	95	51-80	Harvest	Clearcut with Reserves	4123 - Red Oak	Cmpt. Review Proposal
<u>Prescription</u> Final harvest stand to regenerate. Mark multi-species clumps of 2 - 6 trees per clump for mast crop production. Scatter clumps throughout										
<u>Specs:</u> stand. Target residual basal area should be no more than 20 square feet. Follow standard retention guidelines. Place larger-sized retention areas along Munger Road as visual barrier.										
<u>Other</u> Current total BA = 80 including oak BA of 48. Aspen dying out of stand. White Pine was planted in understory in some parts of the stand.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a mix of medium to well stocked oak and aspen.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
81	52171081- CCWR	15.9	4131 - Aspen, Oak	High Density Log	95	81-110	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Final harvest stand to regenerate. Mark multi-species clumps of 2 - 6 trees per clump for mast crop production. Scatter clumps throughout										
<u>Specs:</u> stand. Target residual basal area should be no more than 20 square feet. Follow standard retention guidelines. Place larger-sized retention areas along Webb Road as visual barrier.										
<u>Other</u> Current total BA = 90 including oak BA of 47. Diameter size variability with aspen from sapling to small log. Larger sized aspen is poor quality.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
83	52171083- CCWR	41.8	4123 - Red Oak	High Density Log	90	51-80	Harvest	Clearcut with Reserves	4123 - Red Oak	Cmpt. Review Proposal
<u>Prescription</u> Final harvest stand to regenerate. Mark multi-species clumps of 2 - 6 trees per clump for mast crop production. Try to include larger red pine										
<u>Specs:</u> trees within clumps. Scatter clumps throughout stand. Target residual basal area should be no more than 20 square feet. Also create within-stand retention pockets which include some of the large Red Pine trees. Include 2" and greater cutting specification in sale conditions.										
<u>Other</u> Current BA = 80. Clumps of multi-stemmed, low quality Red Oak. No oak regeneration in understory.										
<u>Comments:</u>										
<u>Next</u> Regeneration survey. Acceptable regeneration includes a mix of medium to well-stocked oak, deciduous and conifer species.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
85	52171085-CC	7.3	4134 - Aspen, Spruce/Fir	High Density Log	80		Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. No recommended retention because of small stand size.										
<u>Specs:</u>										
<u>Other Comments:</u> West facing hillside with some larger diameter (16+) aspen trees. Access stand either from the south or the northeast.										
<u>Next Steps:</u> Regeneration survey.										
<u>Proposed Start Date:</u> 10/01/2013										
102	52171102-RPThin	3.1	42210 - Natural Red Pine	High Density Pole	53	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Third row thin stand. Do not cut outside of designated rows. Retention is included with residual trees.										
<u>Specs:</u>										
<u>Other Comments:</u> Current BA = 170										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2013										
104	52171104-CCWR	25.8	4123 - Red Oak	High Density Log	100	81-110	Harvest	Clearcut with Reserves	4123 - Red Oak	Cmpt. Review Proposal
<u>Prescription</u> Final harvest stand to regenerate. Mark multi-species clumps of 2 - 6 trees per clump for mast crop production. Scatter clumps throughout stand. Target residual basal area should be no more than 20 square feet. Place larger-sized retention pocket along top of ridge in center of stand.										
<u>Specs:</u>										
<u>Other Comments:</u> Current BA = 83. Nice quality oak with a few multi-stemmed oaks. Pockets of aspen.										
<u>Next Steps:</u> Regeneration survey. Acceptable regeneration includes a mix of medium to well-stocked oak										
<u>Proposed Start Date:</u> 10/01/2013										
107	52171107-CC	10.9	4130 - Aspen	High Density Log	80		Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Harvest stand to regenerate. No recommended retention because of small stand size.										
<u>Specs:</u>										
<u>Other Comments:</u> Some larger diameter aspen (16"+) in east part of stand that is starting to die out. Sugar Maple is poor quality and branchy.										
<u>Next Steps:</u> Regeneration survey.										
<u>Proposed Start Date:</u> 10/01/2013										
111	52171111-CCWR	14.0	4310 - Pine, Oak Mix	High Density Log	100	51-80	Harvest	Clearcut with Reserves	4310 - Pine, Oak Mix	Cmpt. Review Proposal
<u>Prescription</u> Final harvest stand to regenerate. Include 2" and greater cutting specification in sale conditions. Place larger-sized retention pocket in western part of stand where there is a larger component of conifer trees. It is acceptable to retain more than 10% of stand if necessary.										
<u>Specs:</u>										
<u>Other Comments:</u> Current BA = 77. Multi-stemmed, low quality oak. Aspen dying out. White and Red Pine mix was planted in understory in 1959.										
<u>Next Steps:</u> Regeneration survey.										
<u>Proposed Start Date:</u> 10/01/2013										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
113	52171113- CCWR	10.5	4139 - Aspen, Mixed Deciduous	High Density Log	85		Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Harvest stand to regenerate. Do not cut oak or White Pine. No within stand retention because of small stand size.

Specs:

Other Good oak regeneration in understory of stand. Current wire fence along south boundary of stand appears to be 200 feet north of boundary line  
Comments: with private property. Survey of section may be needed.

Next Regeneration survey.

Steps:

Proposed

Start Date: 10/01/2013

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**Total Treatment  
Acreage Proposed: 380.6**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3 52171003-RPThin	2.5	42110 - Planted Red Pine	High Density Log	56	200+	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Third row thin stand. Include when thinning pine to the east if access can be made through low area.  
Specs:

Other Factor limit stand because of no access due to low area.  
Comment:

Next  
Steps:

Proposed  
Start Date: 10/01/2013

Limiting Factor and No 2H: Blocked by physical obstacle  
Treatment Reason (e.g. upland stand in a lowland area)  
 Creek between this stand and stand prescribed to the east (Stand 9).

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**Total Treatment**  
**Acreage Proposed: 2.5**

Out of YOE -- Treatments  
Prescribed with No Limiting Factor

Year of Entry: 2014



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

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: #Error

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**Total Treatment  
Acreage Proposed: 0**



Stand	Gaylord Mgt. Unit		5 – Forested Stands			Compartment: 171 Year of Entry: 2014	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
2	6120 - Lowland Cedar	High Density Pole	7.5	82		Poor quality cedar.	
3	42110 - Planted Red Pine	High Density Log	2.5	56	200+	Current BA = 257.	
4	4112 - Maple, Beech, Cherry Association	High Density Log	18.8	80	81-110	Current BA = 87. Poor quality Sugar Maple and Beech with the aspen dying out. EAB in the ash.	
6	4130 - Aspen	High Density Sapling	1.9	27			
8	6120 - Lowland Cedar	High Density Pole	41.3	100		Poor quality cedar.	
9	42110 - Planted Red Pine	High Density Log	43.1	56	141-170	Current BA = 170 and was thinned in 1994. Pockets of high and low basal areas and pockets of high and medium understory.	
10	42101 - Planted White Pine, Mixed Deciduous	High Density Log	17.0	56	111-140	Current BA = 120. Some aspen and Balsam Fir is dying out. White Pine is very branchy. Stand is on a west facing slope leading down to the cedar stand to the west.	
11	6127 - Lowland Pine	High Density Log	8.8	90		Small pocket of Red Pine in northwest corner of stand. Elk/deer rubs.	
15	6123 - Lowland Fir	Low Density Pole	5.7	30		EAB Present.	
16	4134 - Aspen, Spruce/Fir	High Density Log	27.5	80		Larger aspen is dying out and Balsam Fir is blowing over. Some lowland pockets within stand in southeast corner and along west boundary. Survey work may be needed to establish private boundaries. Elk and deer rubs.	
17	4130 - Aspen	High Density Sapling	55.5	18			
18	4110 - Sugar Maple Association	High Density Log	40.9	80	81-110	Current BA = 103 and was thinned in 2008. Ash is dead or dying from heavy EAB.	
19	42260 - Natural Pine, Mixed Deciduous	High Density Sapling	4.4	5		Stand is located on a knoll. No trees were left from the 2007 timber harvest.	
23	4191 - Mixed Upland Deciduous with Conifer	Low Density Log	26.9	Uneven Age		Jack Pine and aspen was cut in 2007. Elk and deer rubs.	
24	4133 - Aspen, Mixed Pine	High Density Pole	11.0	30		High amount of elk/deer rubs.	
25	4133 - Aspen, Mixed Pine	Medium Density Pole	31.3	30		Pockets of herbaceous openings within stand. White Pine is short and bushy. Many elk/deer rubs.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	42110 - Planted Red Pine	High Density Log	58.6	56		Current BA = 155 and was thinned in 1994.
27	4130 - Aspen	High Density Sapling	4.7	28		
28	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	5.1	90		Balsam fir is dying out and falling over. Small drainage in center of stand which flows to the south.
29	42110 - Planted Red Pine	High Density Pole	52.9	55	111-140	Current BA = 127 and was thinned in 2004.
31	42110 - Planted Red Pine	High Density Log	14.7	50	171-200	Current BA = 180. Nice quality Red Pine that was thinned in 2004.
32	4130 - Aspen	High Density Sapling	11.5	18		
33	42110 - Planted Red Pine	High Density Log	5.7	53	141-170	Current BA = 150 and was thinned in 1994.
34	6120 - Lowland Cedar	High Density Pole	28.3	85		
36	42260 - Natural Pine, Mixed Deciduous	High Density Log	26.2	80	111-140	Current BA = 130. Tall, nice quality Red Pine with pockets of higher basal area. Deer bedding in stand.
37	6130 - Fir, Aspen, Maple	High Density Log	1.9	90		Stand is a buffer to road and drainageway which flows to stream on the east side of road.
38	4130 - Aspen	High Density Pole	7.2	28		
39	42110 - Planted Red Pine	High Density Log	1.5	53	171-200	Current BA = 183.
41	4133 - Aspen, Mixed Pine	High Density Sapling	11.4	18		Tops of White Pine trees are multi-stemmed due to weevil damage.
43	4113 - R.Maple, Conifer	High Density Log	9.7	85	111-140	Poor quality, multi-stemmed Red Maple. Beech scale is present. Stand is located between upland and lowland cedar to the north. Many deer rubs in east part of stand.
44	4119 - Mixed Northern Hardwoods	High Density Log	16.1	75	81-110	Current BA = 100. Low quality hardwood that is branchy and multi-stemmed. Heavy Beech Scale and EAB is present
45	4134 - Aspen, Spruce/Fir	High Density Pole	29.3	28		
47	6121 - Tamarack	Low Density Log	3.7	77		

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## Gaylord Mgt. Unit

## 5 – Forested Stands

Compartment: 171

Year of Entry: 2014



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4136 - Aspen, Mixed Conifer	High Density Log	2.8	80		
49	42121 - Planted Jack Pine, Mixed Deciduous	Low Density Pole	2.0	61		Jack Pine is very branchy, dying out, and falling over. Stand converting to hardwood stand.
56	42110 - Planted Red Pine	High Density Log	9.5	61	171-200	Current BA = 180 and thinned in 1984. Tall, nice quality Red Pine. Jack Pine dying out. A power line runs along the east boundary and then through the north part of stand. 10 - 20 feet spacing between rows.
57	4191 - Mixed Upland Deciduous with Conifer	High Density Log	6.4	85		East side of stand has a higher component of spruce and some large White Pine. Leave this if cutting stand.
58	42110 - Planted Red Pine	High Density Pole	4.9	53	81-110	Current BA = 103 and was thinned in 2004.
60	4130 - Aspen	High Density Sapling	12.5	7		
61	42120 - Planted Jack Pine	Medium Density Log	16.2	61		Very poor quality Jack Pine that is very branchy. 10 - 20% of the pine is dead and falling over.
62	4130 - Aspen	High Density Pole	114.9	46		
63	4130 - Aspen	High Density Sapling	7.8	8		
65	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	4.5	55		Heavy EAB in stand with ash dead or dying.
67	42290 - Natural Mixed Pine	High Density Log	11.3	Uneven Age	51-80	Current BA = 70. Aspen was cut in 1994. Some individual larger diameter pine trees (>18) along water edge.
69	42100 - Planted White Pine	High Density Log	1.4	53	141-170	Current BA = 160 and stand was never thinned. Trees are very branchy with dead branches from ground to almost the top of the trees.
70	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	5.4	53	111-140	Current BA = 130. Thinned in 2004.
72	4130 - Aspen	High Density Sapling	27.5	18		
74	42110 - Planted Red Pine	High Density Log	7.3	53	141-170	Current BA = 143. Nice quality Red Pine. A thinning which removed every other row was done in 2004. Good spacing for optimal growth.
75	4130 - Aspen	High Density Log	8.2	85		Big Tooth Aspen dying out. Heavy EAB present in a 18 DBH ash tree and in understory sapling ash.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
76	42110 - Planted Red Pine	High Density Pole	4.9	53	141-170	Current BA = 157 and was thinned in 2004.
77	4130 - Aspen	High Density Log	3.4	80		Larger aspen is dying out. Beech scale is present and moderate. Terrian is moderately hilly.
78	42290 - Natural Mixed Pine	High Density Log	30.6	75	81-110	Current BA = 103. Aspen dying out. deer bedding area along western stand boundary line. Some larger diameter (20+) white and red pine.
79	4123 - Red Oak	High Density Log	68.2	Uneven Age	51-80	Current total BA = 80 with Oak BA = 48. Aspen dying out of stand. White Pine was planted in understory is some parts of the stand.
81	4131 - Aspen, Oak	High Density Log	15.9	95	81-110	Current total BA = 90 with Oak BA = 47. Diameter size variability with aspen from sapling to small log. Larger sized aspen is poor quality.
83	4123 - Red Oak	High Density Log	41.8	90	51-80	Current BA = 80. Clumps of multi-stemmed, low quality Red Oak. no oak regeneration in understory.
84	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	5.6	8		
85	4134 - Aspen, Spruce/Fir	High Density Log	7.3	80		West facing hillside with some larger diameter (16+) aspen trees. Elk rubs on the maple in the understory.
89	4111 - S.Maple, Hard Mast Association	High Density Log	37.8	90	81-110	Current BA = 107. Thinned in 2008. EAB is killing all ash and Beech Scale is present.
90	6124 - Lowland Spruce-Fir	Medium Density Pole	7.0	71		EAB is heavy and ash is dead or dying out. A stream begins in stand and flows north.
92	4130 - Aspen	High Density Sapling	30.8	18		
93	42110 - Planted Red Pine	High Density Log	8.5	57	111-140	Current BA = 120. Thinned in 2004.
94	4130 - Aspen	High Density Sapling	6.5	18		
95	4191 - Mixed Upland Deciduous with Conifer	High Density Log	54.5	Uneven Age	51-80	Current Oak Basal Area is 65. Sub-canopy of aspen and red maple sapling/pole is heavy.
96	4112 - Maple, Beech, Cherry Association	High Density Log	98.4	90	51-80	Current BA = 73 and was thinned in 2008. Light Beech Scale is present and ash is dead or dying from EAB.
98	4131 - Aspen, Oak	High Density Pole	53.9	38		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	42110 - Planted Red Pine	High Density Log	15.8	57	141-170	Current BA = 167. Nice quality, 6 to 7 stick Red Pine. Thinned in 2004.
101	42110 - Planted Red Pine	High Density Log	11.0	50	111-140	Current BA = 140 and was thinned in 2004.
102	42210 - Natural Red Pine	High Density Pole	3.1	53	141-170	Current BA = 170
103	4123 - Red Oak	High Density Log	63.2	Uneven Age	81-110	Current BA = 103. Multi-stemmed , low quality Red Maple and oak. Aspen is dying out. White Pine plantine in understory in one area of stand.
104	4123 - Red Oak	High Density Log	25.8	100	81-110	Current BA = 83. Nice quality oak with a few multi-stemmed oaks. Pockets of aspen.
106	42110 - Planted Red Pine	High Density Pole	33.1	53	111-140	Current BA = 128. Thinned in 2004.
107	4130 - Aspen	High Density Log	10.9	80		Some larger diameter aspen (16"+) in east part of stand is starting to die out. Sugar Maple is poor quality and branchy.
108	4134 - Aspen, Spruce/Fir	High Density Pole	9.9	70		Steeper ravine along the western edge of the stand.
109	42101 - Planted White Pine, Mixed Deciduous	High Density Pole	15.1	53	81-110	Current BA = 83. White Pine is very branchy. Survey of section needs to be done to establish accurate south boundary line of stand. Existing wire fence appears to be located 200 feet north of actual boundary line with private property.
110	42110 - Planted Red Pine	High Density Pole	11.9	53	141-170	Current BA = 147. Thinned in 2004.
111	4310 - Pine, Oak Mix	High Density Log	14.0	Uneven Age	51-80	Current BA = 77. Multi-stemmed , low quality oak. Aspen dying out. White and Red Pine mix was planted in understory in 1959.
112	4130 - Aspen	High Density Pole	25.7	46		
113	4139 - Aspen, Mixed Deciduous	High Density Log	10.5	85		Good oak regeneration in understory of stand. Current wire fence along south boundary of stand appears to be 200 feet north of boundary line with private property. Survey of section may be needed.
114	42101 - Planted White Pine, Mixed Deciduous	High Density Pole	7.5	53	81-110	Current BA = 103. White Pine is very branchy and not growinf very well. Good oak regeneration in understory.
115	6122 - Black Spruce	High Density Log	4.3	85		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	310 - Herbaceous Openland	2.1	N/A	Unspecified	
5	330 - Low-Density Trees	1.4	N/A	Unspecified	
7	310 - Herbaceous Openland	2.3	N/A	Unspecified	
12	50 - Water	6.3	N/A	Unspecified	
13	310 - Herbaceous Openland	3.7	N/A	Unspecified	
14	622 - Lowland Shrub	3.1	N/A	Unspecified	
20	622 - Lowland Shrub	4.5	N/A	Unspecified	
21	310 - Herbaceous Openland	1.3	N/A	Unspecified	
22	310 - Herbaceous Openland	1.3	N/A	Unspecified	
30	330 - Low-Density Trees	2.7	N/A	Unspecified	
35	122 - Road/Parking Lot	3.1	N/A	Unspecified	
40	310 - Herbaceous Openland	1.9	N/A	Unspecified	
42	622 - Lowland Shrub	8.4	N/A	Unspecified	
46	330 - Low-Density Trees	2.8	N/A	Unspecified	
50	310 - Herbaceous Openland	1.1	N/A	Unspecified	
51	330 - Low-Density Trees	1.7	N/A	Unspecified	
52	623 - Emergent Wetland	2.5	N/A	Unspecified	
53	310 - Herbaceous Openland	3.6	N/A	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
54	310 - Herbaceous Openland	8.1	N/A	Unspecified	
55	50 - Water	7.4	N/A	Unspecified	
59	623 - Emergent Wetland	1.0	N/A	Unspecified	
64	622 - Lowland Shrub	1.7	N/A	Unspecified	
66	330 - Low-Density Trees	2.1	N/A	Unspecified	
68	622 - Lowland Shrub	2.7	N/A	Unspecified	
71	330 - Low-Density Trees	6.0	N/A	Unspecified	
73	122 - Road/Parking Lot	1.5	N/A	Unspecified	
80	330 - Low-Density Trees	7.9	N/A	Unspecified	
82	310 - Herbaceous Openland	1.0	N/A	Unspecified	
86	330 - Low-Density Trees	15.5	N/A	Unspecified	
87	122 - Road/Parking Lot	5.1	N/A	Unspecified	
88	310 - Herbaceous Openland	1.3	N/A	Unspecified	
91	310 - Herbaceous Openland	2.5	N/A	Unspecified	
97	122 - Road/Parking Lot	2.5	N/A	Unspecified	
100	310 - Herbaceous Openland	1.6	N/A	Unspecified	
105	330 - Low-Density Trees	4.1	N/A	Unspecified	



### 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.

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.

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.