



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 142

Entry Year 2015

Acreage: 1,284

County Cheboygan

Management Area: Chandler Hills

**Revision Date:** 05/22/2013

**Stand Examiner:** Don Stacks

**Legal Description:**

T35N R03W 28, 31, 32, 33.

**Identified Planning 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:**

Mostly Rubicon and Wallace sands on flat topography.

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

Residential areas are located to the north, south, and west sides of the compartment. State land is located to the east. One privately-owned 40 acre parcel is found in section 33, surrounded by state land.

**Unique Natural Features:**

Red-shouldered hawk in compartment and to s/sw, w/sw, n, se, and s. Grasshopper sparrow west. Osprey to w and ne. Bald eagle to w/nw. Black tern to ne. Common loon to ne. Eastern massasauga to w/nw. Dusted skipper to se. Mesic northern forest to w/sw. Rich conifer swamp and emergent marsh to w. Slough grass to nw. Michigan monkey-flower to ne. Lake cress to e/ne. Alleghany plum to e. Hill's thistle to e. Ram's head lady's-slipper to se. Potential for red-shouldered hawk, northern goshawk, wood turtle, and eastern massasauga. Potential for ram's head lady's-slipper, limestone oak fern, round-leaved orchis, and calypso orchid in cedar swamps.

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

None listed.

**Special Management Designations or Considerations:**

None listed.

**Watershed and Fisheries Considerations:**

This compartment is in the Pickeral Lake watershed and contains a portion of Berry Creek, a designated trout stream that is classified as cold water. There should be a minimum buffer of 100' adjacent to Berry Creek.

**Wildlife Habitat Considerations:**

This compartment consists of a mixture of upland and lowland types. The lowland areas support a variety of species including black bear, white-tailed deer, furbearers, and various amphibians. The upland area consists of a mix of aspen, hardwoods, red and white pine. Two aspen stands will be treated within this compartment to provide early successional habitat that will benefit white-tailed deer, wild turkey, ruffed grouse, American woodcock and various songbirds. This area receives significant hunting pressure.

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

Surface sediments consist of lacustrine (lake) sand and gravel, and minor coarse-textured glacial till and dune sand. The glacial drift thickness varies between 100 and 200 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is quarried for stone and cement products. The nearest gravel pit and brick plant is located to the north. The upland areas should have good gravel potential. The nearest oil and gas production, the Antrim Shale gas play, is located 12 miles to the south. The Compartment is leased for oil and gas development for the Collingwood Formation.

**Vehicle Access:**

Several forest trail roads run through the compartment and can be accessed from Gularski, Parke, Reams, and Pickeral Lake roads.

**Survey Needs:**

Potentially 1/4 to 1 mile of property line work.

**Recreational Facilities and Opportunities:**

Several designated snowmobile trails run through the compartment. A short segment of a designated ORV trail runs through the southeast portion of the compartment.

**Fire Protection:**

The Indian River Field Office and Tuscarora Township VFD are located about 3 miles to the east.

**Additional Compartment Information:**

The compartment contains a very diverse mix of cover types including aspen, oak, red pine, white pine, jack pine, and northern hardwoods. An active beaver pond and swamp conifer stands are also present.

**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**

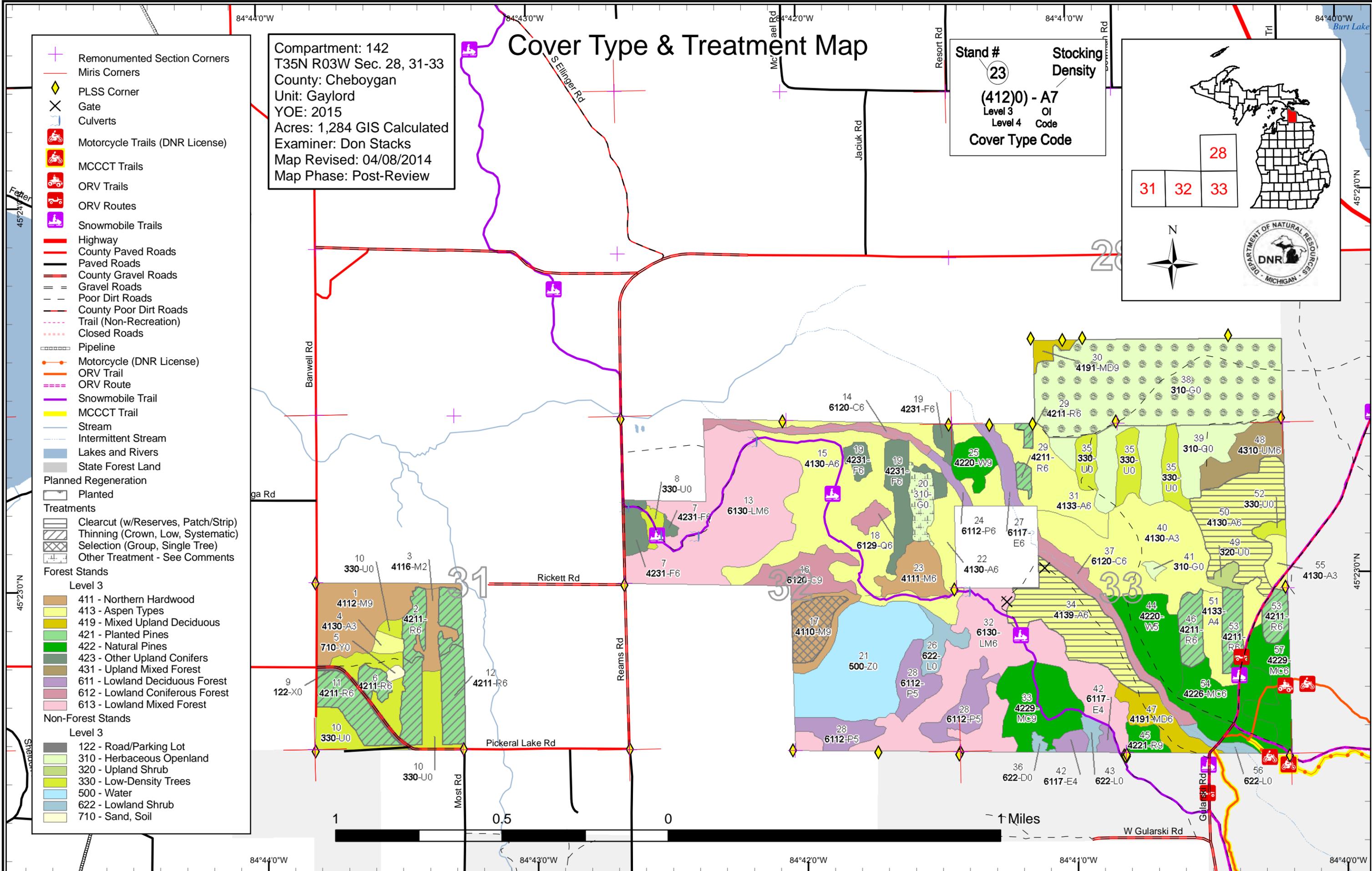
# Cover Type & Treatment Map

Compartment: 142  
 T35N R03W Sec. 28, 31-33  
 County: Cheboygan  
 Unit: Gaylord  
 YOE: 2015  
 Acres: 1,284 GIS Calculated  
 Examiner: Don Stacks  
 Map Revised: 04/08/2014  
 Map Phase: Post-Review

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

28  
 31 32 33

- Remonumented Section Corners
- Miris Corners
- PLSS Corner
- Gate
- Culverts
- Motorcycle Trails (DNR License)
- MCCCT Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Pipeline
- Motorcycle (DNR License)
- ORV Trail
- ORV Route
- Snowmobile Trail
- MCCCT Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land
- Planned Regeneration**
- Planted
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Other Treatment - See Comments
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
- 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**
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand, Soil



# Stand Boundary Map

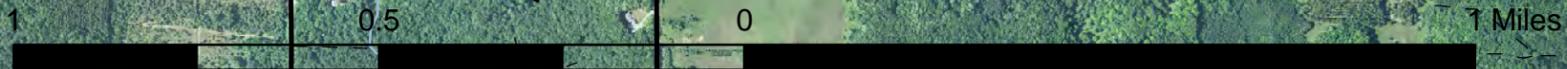
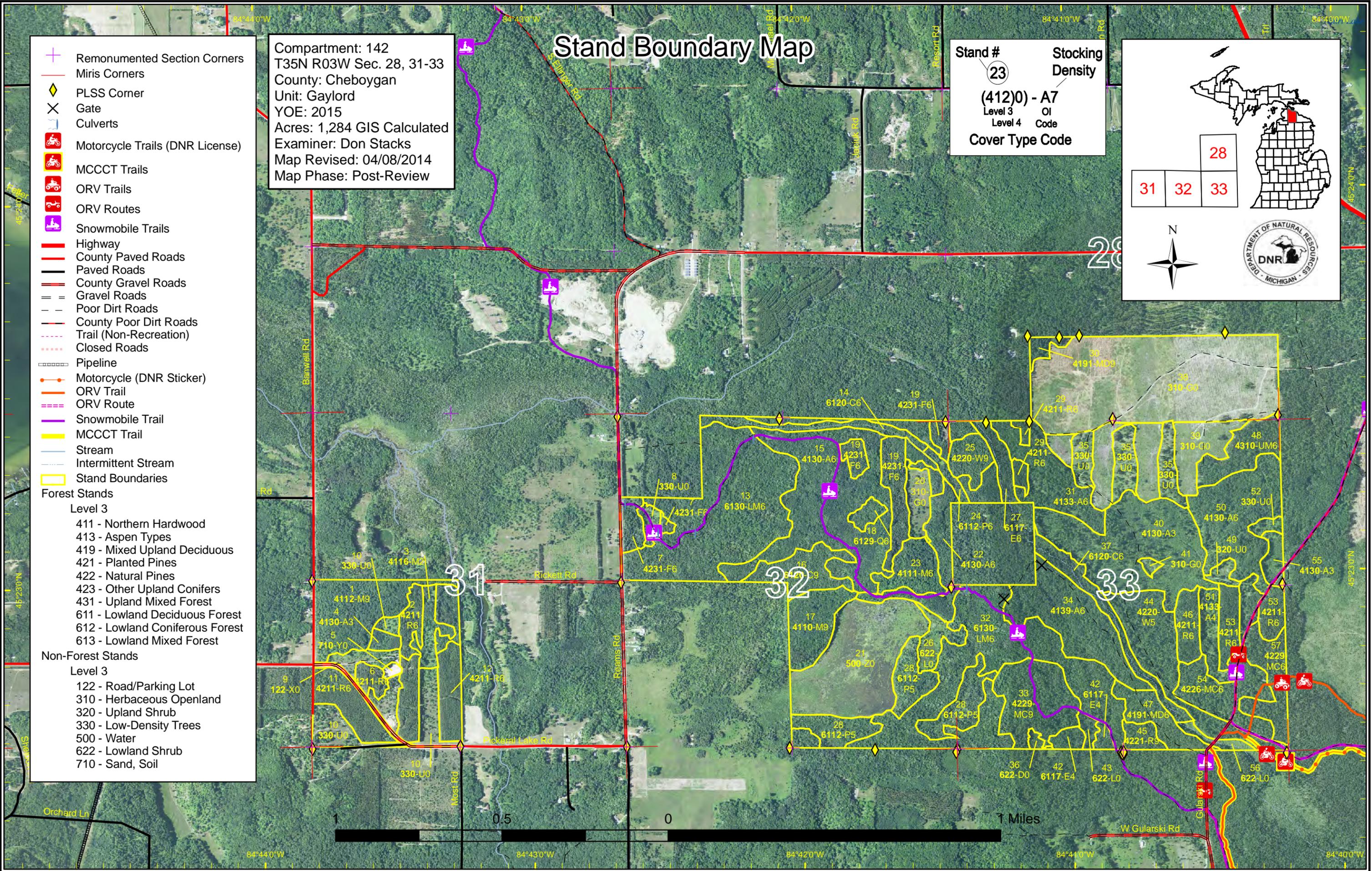
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Stand # **23**  
 Stocking Density  
**(4120) - A7**  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

		28
31	32	33

N

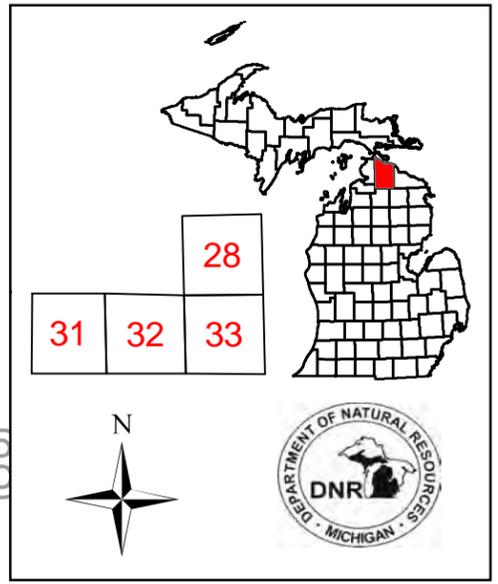
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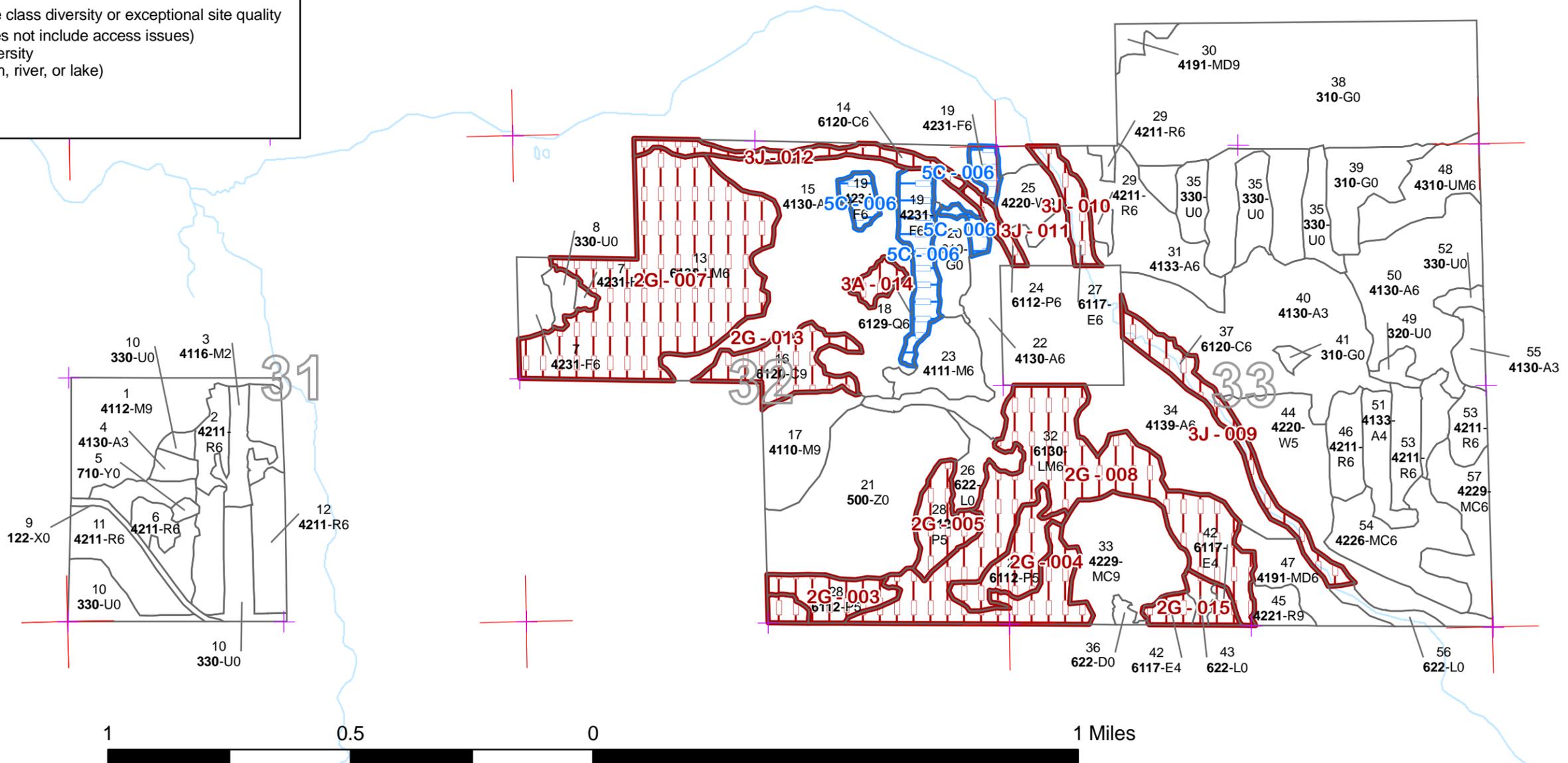
# Special Conservation Areas & Site Conditions Map

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+ Remonumented Section Corners  
 — Miris Corners  
 □ Stand Boundaries  
 Site Condition Available  
 Available w/ Constraints (Factor - Number)  
 Unavailable (Factor - Number)  
 Site Condition Type  
 5C: Delay treatment for age/size class diversity or exceptional site quality  
 2G: Too wet (sensitive soils, does not include access issues)  
 3A: Potential old growth / biodiversity  
 3J: Water quality / BMPs (stream, river, or lake)  
 Dedicated Special Conservation Areas  
 Cold Water Streams



45°24'0"N  
45°23'0"N

84°44'0"W 84°43'0"W 84°42'0"W 84°41'0"W 84°40'0"W

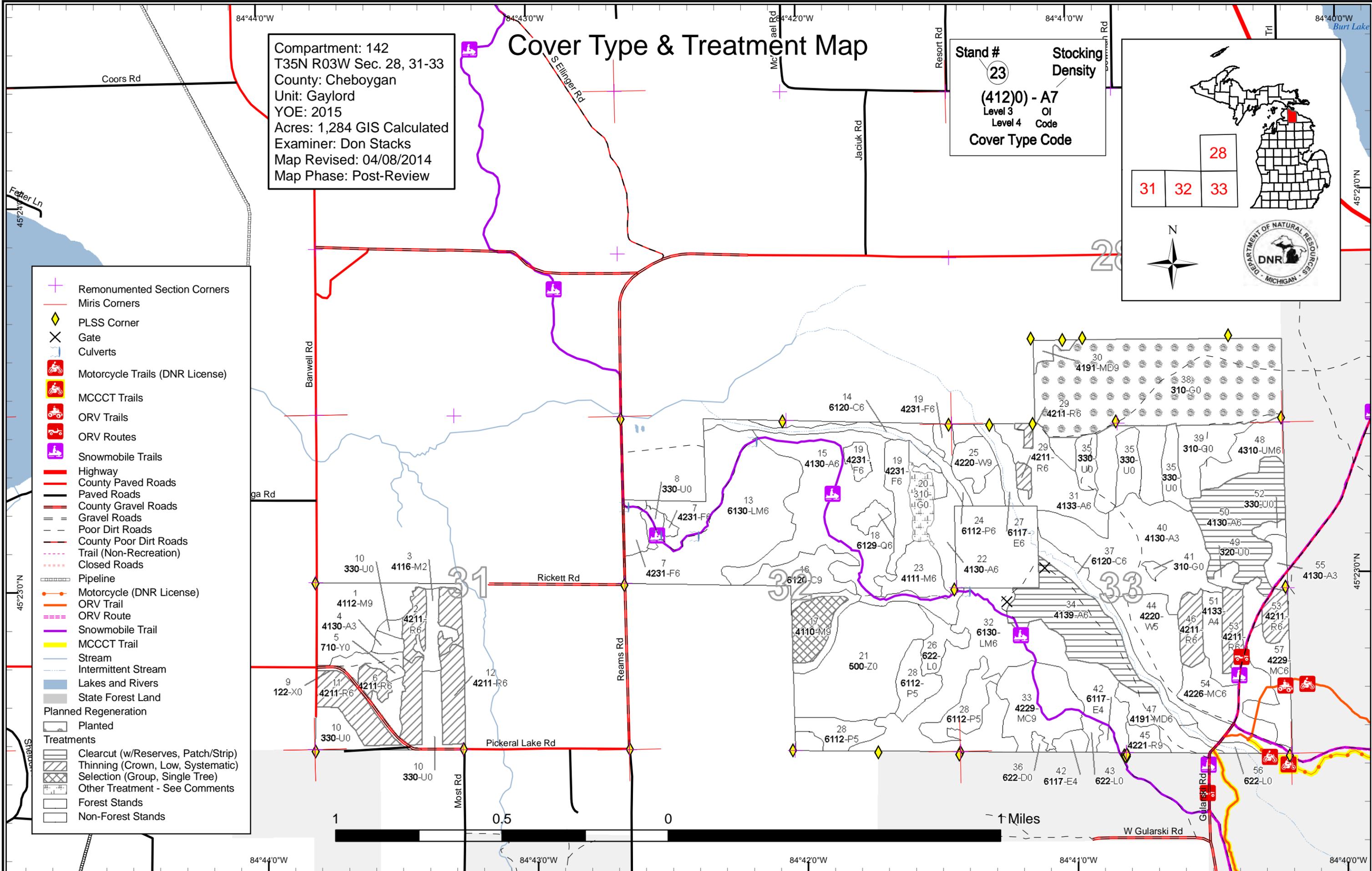
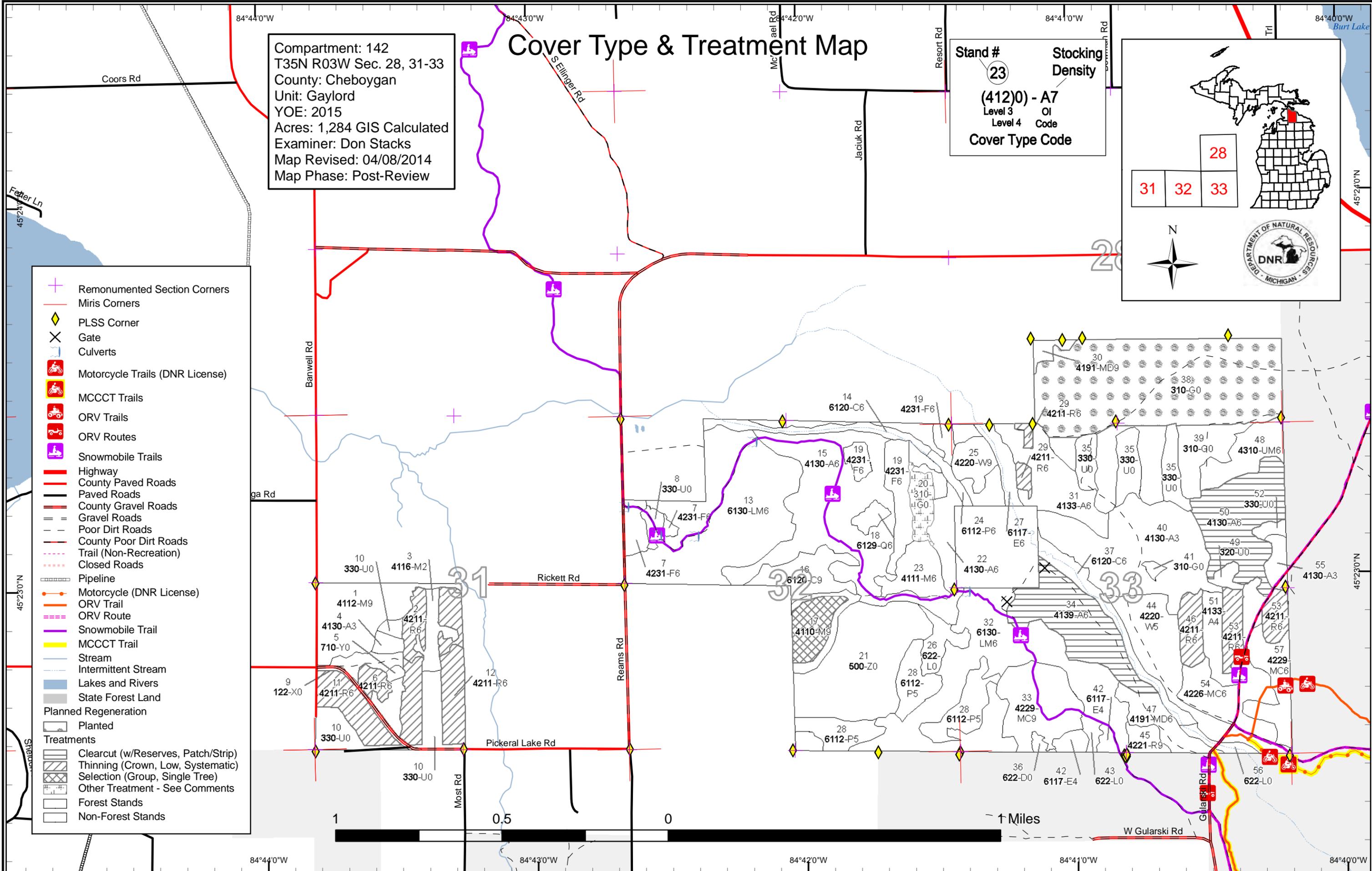
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	Age Class														Total
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	
Aspen	73	0	31	16	115	0	84	0	0	0	0	0	0	0	320
Cedar	0	0	0	0	0	0	0	11	16	0	18	0	0	0	44
Herbaceous Openland	173	0	0	0	0	0	0	0	0	0	0	0	0	0	173
Low-Density Trees	63	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Lowland Aspen/Balsam Poplar	0	0	0	0	3	0	37	0	0	0	0	0	0	0	40
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
Lowland Deciduous	0	0	0	0	0	14	0	0	0	0	0	0	0	0	14
Lowland Mixed Forest	0	0	0	0	0	91	91	0	0	0	0	0	0	0	182
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	0	0	0	0	14	0	0	0	4	0	0	0	0	18
Natural Mixed Pines	0	0	0	0	0	18	0	0	0	0	0	32	0	0	50
Northern Hardwood	0	0	8	0	0	0	0	0	49	0	0	20	0	0	77
Red Pine	0	0	0	0	0	87	0	5	0	0	0	0	0	0	93
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Treed Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Spruce/Fir	0	0	0	0	0	33	0	0	0	0	0	0	0	0	33
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	61	0	0	0	0	0	0	0	0	0	0	0	0	0	61
White Pine	0	0	0	0	26	0	0	0	45	0	0	0	0	0	71
<b>Total</b>	<b>394</b>	<b>0</b>	<b>40</b>	<b>16</b>	<b>145</b>	<b>275</b>	<b>212</b>	<b>16</b>	<b>109</b>	<b>4</b>	<b>18</b>	<b>55</b>	<b>0</b>	<b>0</b>	<b>1284</b>



## Report 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit  
Year of Entry 2015

Compartment 142  
Total Compartment Acres: 1,284

### Acres by Treatment Type

Commercial Harvest - 185    Tree Planting - 0    Other - 0  
Habitat Cut - 0    Opening Maintenance - 9

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	84	0	0	0	0	0	84
Northern Hardwood	0	13	0	0	0	0	13
Planted Pines	0	0	0	0	87	0	87
<b>Total</b>	<b>84</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>87</b>	<b>0</b>	<b>185</b>



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	52142002-RPTHIN	14.6	42110 - Planted Red Pine	High Density Pole	53	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> A row thinning will be prescribed for this stand this Y.O.E. and will be included with the other adjacent red pine stands that will be treated. Any</p> <p><u>Specs:</u> hardwood trees that will obstruct the movement of equipment during harvest will be cut and left on sight as coarse woody debris. Post-harvest BA will be around 130. Do not cut Oak.</p> <p><u>Other Comments:</u> Stand consists of lesser quality, small diameter red pine poletimber that has never been treated. Much of the stand also has clumps of mixed hardwood present.</p> <p><u>Next Steps:</u> Marked thinning.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										
6	52142006-RPTHIN	4.7	42110 - Planted Red Pine	High Density Pole	59	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Prescribe a marked thinning this Y.O.E. to restore post-harvest BA back to about 120'. Do not cut Oak.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Small red pine poletimber stand with a few sawlog trees also present. Stand was row-thinned in 1996.</p> <p><u>Next Steps:</u> Marked thinning.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										
11	52142011-RPTHIN	15.9	42110 - Planted Red Pine	High Density Pole	53	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Prescribe a marked thinning this Y.O.E. to restore stand to a post-harvest BA of about 120'. Do not cut Oak.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Red pine poletimber with a few small sawlog trees present. Stand was row-thinned in 1996.</p> <p><u>Next Steps:</u> Marked thinning.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										
12	52142012-RPTHIN	22.5	42110 - Planted Red Pine	High Density Pole	53	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Prescribe a marked thinning this Y.O.E. to achieve a post-harvest BA of about 120'. Do not cut Oak.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Red pine poletimber with a few scattered sawlog trees. Row-thinned in 1996. Clean understory.</p> <p><u>Next Steps:</u> Marked thinning.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17	52142017- HWSESL	13.4	4110 - Sugar Maple Association	High Density Log	111	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Paint is still visible on marked trees from 2006 sale prep. If the sale is not re-sold before 10/01/2014, then this treatment will cover the next <u>Specs:</u> planning horizon of ten years. Update stumpage prices and possibly re-bid sale before 2015, before paint starts to fade. Add spec to cut all beech and white ash except those marked with a band of green paint. Non-winter harvest only, since snowmobile trail is heavily used and is the only access into the stand. A buffer of uncut timber (about two chains) lies between the sale area and the beaver pond to the east. Desired post- harvest BA will be about 75-80 sq. ft.</p> <p><u>Other</u> Stand consists of heavily stocked, large diameter northern hardwood sawtimber, mostly sugar maple and basswood. Stand was prescribed, <u>Comments:</u> marked, and sold in 2006, but never harvested. The sale was extended twice before the producer, (Wheeler Wolf lake Sawmill), declined to cut the sale. Prescription to mark this stand was cancelled in 1996 because of an active red-shouldered hawk nest. Beech scale is present within stand and there is also a lesser white ash component present.</p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2012</p>										
29	52142029- RPTHIN	4.0	42110 - Planted Red Pine	High Density Pole	53	200+	Harvest	Systematic Thinning	42110 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Row thin this Y.O.E. Include with stands 1/2 mile to the SE. Non- winter harvest only because of snowmobile trails. Post-harvest BA will be <u>Specs:</u> about 135 sq. ft. Cut and leave any hardwood or aspen trees that block the movement of harvest equipment within the sale area. Do not cut Oak.</p> <p><u>Other</u> Small pine plantation, mostly small diameters, lesser quality. Stand has never been treated, growth is stagnant. <u>Comments:</u></p> <p><u>Next</u> Marked thinning. <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										
34	52142034- ACCRES	40.8	4139 - Aspen, Mixed Deciduous	High Density Pole	61	81-110	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Final harvest this stand this Y.O.E. before aspen loses vigor. Leave uncut any incidental white pine, hemlock, white oak, or unmarked red oak. <u>Specs:</u> Mark to cut occasional red oak as needed, in areas where there are concentrations, to try to encourage red oak regen. Non-winter harvest would be preferred because of multiple snowmobile trails to access stand. Possibly leave scattered brushpiles of balsam fir after harvest to create snowshoe hare cover. Also, mark 6 - 12 trees to fell and leave on ground for drumming logs. No unharvested retention islands needed on this relatively narrow stand.</p> <p><u>Other</u> Nice quality mixed aspen poletimber/sawtimber, with a consistent red oak and red maple component. Adjacent to Berry Creek floodplain and <u>Comments:</u> private property. Medium to heavy balsam fir understory.</p> <p><u>Next</u> Natural regen. A mix of aspen, oak, white pine, and balsam fir will be acceptable. <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										
46	52142046- RPTHIN	9.7	42110 - Planted Red Pine	High Density Pole	53	200+	Harvest	Systematic Thinning	42110 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Row thin this stand with red pine stand to the east this Y.O.E. Thin every third row to restore post-harvest BA to about 120 sq. ft. Fell and leave <u>Specs:</u> any aspen/hardwood tree that obstructs the movement of harvest equipment through cut rows. Do not cut Oak.</p> <p><u>Other</u> Lesser quality red pine plantation, mostly stunted poletimber. Scattered mixed aspen, oak, and hardwood sawlog and poletimber is also found in <u>Comments:</u> the plantation. Stand has never been treated.</p> <p><u>Next</u> Marked thinning. <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2014</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
50	52142050- ACCRES	43.4	4130 - Aspen	High Density Pole	61	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Fld. Tr. Bdy. - Incomplete

Prescription Final harvest this Y.O.E. before any significant mortality begins to occur, resulting is less desirable aspen regen. Non-winter harvest only  
Specs: because of designated snowmobile trail. Leave all oak and white pine. This should not hinder aspen regen. Mark 6 - 12 trees to fell and leave for drumming logs. Also, leave a one to two acre unharvested island for retention purposes.

Other Stand consists of a mix of mostly quaking aspen poletimber and bigtoothed aspen sawlogs, with lesser amounts of scattered red maple, red oak,  
Comments: white oak, and white pine sawtimber and poletimber. Stand is starting to show slight loss of vigor at 60 years of age.

Next Natural regen. A mix of aspen, oak, and white pine will be an acceptable mix of species regen.  
Steps:

Proposed  
Start Date: 10/01/2014

53	52142053- RPTHIN	16.0	42110 - Planted Red Pine	High Density Pole	53	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
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Prescription Row thin this stand this Y.O.E. to restore post-harvest BA to about 120 sq. ft. Do not cut Oak. Fell and leave any aspen or hardwood that  
Specs: obstructs the movement of harvest equipment within cut rows.

Other Lesser quality, small diameter red pine poletimber. Scattered mixed aspen, hardwood, and oak sawlogs and poles are also found in the stand.  
Comments: Stand has never been treated. Stand is adjacent to snowmobile trail will require non-winter harvest.

Next  
Steps:

Proposed  
Start Date: 10/01/2014

20	NF_52142020- NonFor	8.8	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Fld. Tr. Bdy. - Incomplete
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Prescription General opening maintenance which may include mowing, discing, Rx fire, herbicide.  
Specs:

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: Unspecified

**Total Treatment  
Acreage Proposed: 193.6**



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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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#Type! #Type!

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Type!

Limiting Factor

**Total Treatment  
Acreage Proposed: 0.0**

## Report 5 – Site Conditions

Gaylord Mgt. Unit  
Don Stacks : Examiner

Compartment 142  
Year of Entry 2015

### Availability for Management

Total Acres			Dominant Site Conditions				
Acres	Available	Not Available	No	5C	3J	3A	2G
320	320		Aspen	320			
44		44	Cedar			27	18
40		40	Lowland Aspen/Balsam Poplar			3	37
4		4	Lowland Conifers			4	
14	6	8	Lowland Deciduous	6		8	
182		182	Lowland Mixed Forest				182
18	18		Mixed Upland Deciduous	18			
76	76		Natural Mixed Pines	76			
77	77		Northern Hardwood	77			
93	93		Red Pine	93			
17	17		Upland Mixed Forest	17			
33	33		Upland Spruce/Fir	8	24		
45	45		White Pine	45			
962	684	278	Total Forested Acres	660	24	38	4
	71%	29%	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
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	11				
<b>Comments:</b>							
004	Not Available	2G: Too wet (sensitive soils, does not include access issues)	14				
<b>Comments:</b>							

## Report 5 – Site Conditions

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005	Not Available	2G: Too wet (sensitive soils, does not include access issues)	12		
<b>Comments:</b>					
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	No Limiting Factor	
<b>Comments:</b>					
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	91	3H: Deer Wintering Areas	
<b>Comments:</b>					
008	Not Available	2G: Too wet (sensitive soils, does not include access issues)	91	3H: Deer Wintering Areas	
<b>Comments:</b>					
009	Not Available	3J: Water quality / BMPs (stream, river, or lake)	16	3H: Deer Wintering Areas	
<b>Comments:</b>					
010	Not Available	3J: Water quality / BMPs (stream, river, or lake)	8	3H: Deer Wintering Areas	
<b>Comments:</b>					

**Report 5 – Site Conditions**

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**Year of Entry 2015**

011	<b>Not Available</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	3H: Deer Wintering Areas
<b>Comments:</b>				
012	<b>Not Available</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	11	3H: Deer Wintering Areas
<b>Comments:</b>				
013	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	18	3H: Deer Wintering Areas
<b>Comments:</b>				
014	<b>Not Available</b>	<b>3A: Potential old growth / biodiversity</b>	4	3H: Deer Wintering Areas
<b>Comments:</b>				
015	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	
<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
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Comments

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**Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Cold Water 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	High Density Log	34.1	81	81-110	Northern hardwood stand, mostly red maple and sugar maple, with scattered black cherry. Camp Pellston prison crew cut TSI in 1996. Heavy regen in understory. Adjacent to Pickeral Lake Rd. and Miller Rd.
2	42110 - Planted Red Pine	High Density Pole	14.6	53	171-200	Stand consists of lesser quality, small diameter red pine poletimber that has never been treated. Much of the stand also has clumps of mixed hardwood present.
3	4116 - Mixed N. Hardwood - Aspen	Medium Density	8.5	28		Stand consists of a mix of lesser stocked hardwood/aspen saplings and small poletimber.
4	4130 - Aspen	High Density Sapling	3.1	28		Small stand of mixed aspen/hardwood in transition from saps into small poletimber.
6	42110 - Planted Red Pine	High Density Pole	4.7	59	171-200	Small red pine poletimber stand with a few sawlog trees also present. Stand was row-thinned in 1996.
7	42310 - Planted Spruce	High Density Pole	8.1	52	81-110	Small white spruce plantation adjacent to Reams Rd. and snowmobile trail.
11	42110 - Planted Red Pine	High Density Pole	15.9	53	141-170	Red pine poletimber with a few small sawlog trees present. Stand was row-thinned in 1996.
12	42110 - Planted Red Pine	High Density Pole	22.5	53	171-200	Red pine poletimber with a few scattered sawlog trees. Row-thinned in 1996. Clean understory.
13	6130 - Fir, Aspen, Maple	High Density Pole	91.3	64	111-140	Mixed swamp conifers with lesser amounts of mixed deciduous on very wet soil. Aspen component is falling out of stand, converting to balsam fir.
14	6120 - Lowland Cedar	High Density Pole	10.7	79	111-140	Cedar stand growing in the floodplain of a trib to Berry Cr. Sparse, scattered quaking aspen poles/logs and large white pine sawtimber.
15	4130 - Aspen	High Density Pole	78.1	45	81-110	Mixed aspen poletimber with lesser amounts of red maple and balsam fir.
16	6120 - Lowland Cedar	High Density Log	17.5	101	141-170	High quality stand of cedar. Many larger diameters present. Scattered balsam fir poles along with a few aspen can also be found in the stand. Wet site.
17	4110 - Sugar Maple Association	High Density Log	19.8	111	111-140	Stand consists of heavily stocked, large diameter northern hardwood sawtimber, mostly sugar maple and basswood. Stand was prescribed, marked, and sold in 2006, but never harvested. The sale was extended twice before the producer, (Wheeler Wolf lake Sawmill), declined to cut the sale. Prescription to mark this stand was cancelled in 1996 because of an active red-shouldered hawk nest.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6129 - Mixed Coniferous Lowland Forest	High Density Pole	3.8	111	200+	Small acreage stand consisting primarily of hemlock and cedar poletimber and sawlogs. Stand is surrounded by large acreage big-toothed aspen stand. White spruce plantation nearby to the east.
19	42310 - Planted Spruce	High Density Pole	24.4	53	141-170	White spruce plantation. Stand presently provides excellent thermal cover to wildlife.
22	4130 - Aspen	High Density Pole	37.0	45	81-110	Multi-poly stand of mostly BTA poletimber, with lesser amounts of red maple poletimber. Scattered red pine poletimber/sawtimber, balsam fir poltimber, white pine and red oak sawtimber also present.
23	4111 - S.Maple, Hard Mast Association	High Density Pole	14.6	83	81-110	Stand consists mostly of sugar maple boltwood. Scattered beech, basswood, and red oak also present. Heavy hardwood regen in understory.
24	6112 - Lowland Aspen	High Density Pole	3.4	48	1-50	Small stand which is a floodplain to a trib of Berry Cr.
25	42200 - Natural White Pine	High Density Log	9.7	86	141-170	Small stand of very nice white pine, mostly logs and x-logs, with poletimber also. Big-toothed aspen poletimber and scattered red pine sawtimber also present.
27	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	7.8	55	51-80	Narrow floodplain to Berry Cr. Adjacent stands about 8 feet higher in elevation. Medium stocked quaking aspen.
28	6112 - Lowland Aspen	Medium Density Pole	36.6	63	51-80	Overmature, lesser stocked stand of mixed swamp aspen and red maple, on a very wet site. Standing and flowing water present. Mostly tag alder in the understory. Much of the aspen has died. Almost all the black ash is dead or dying.
29	42110 - Planted Red Pine	High Density Pole	4.0	53	200+	Small pine plantation, mostly small diameters, lesser quality. Stand has never been treated, growth is stagnant.
30	4191 - Mixed Upland Deciduous with Conifer	High Density Log	3.7	91	1-50	Small stand of scattered, large white pine sawtimber adjacent to private residence and large RPP final harvest. White pine poletimber and saplings filling in in understory. Also sparse, scattered overmature aspen and red maple.
31	4133 - Aspen, Mixed Pine	High Density Pole	28.3	29		Mix of quaking and big-toothed aspen from 1985 final harvest. Younger white pine poletimber can be found throughout stand, with a heavier concentration found in the center of the stand. Scattered large white pine and red pine sawlog trees also exist.
32	6130 - Fir, Aspen, Maple	High Density Pole	91.1	59	111-140	Stand consists of a mix of lowland conifers and deciduous. Balsam fir is stocked the heaviest and most consistent, with areas of heavy balsam fir regen. Stand is very wet with areas of standing water. Other species include big-toothed aspen, quaking aspen, balsam poplar, red maple, cedar, paper birch, white pine, and hemlock. Almost all the black ash in this stand is dead or dying.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	42290 - Natural Mixed Pine	High Density Log	31.8	114	81-110	Stand consists of mostly large white pine sawtimber, with lesser amounts of large red pine sawtimber. White pine and red pine poletimber is also present with sparse, scattered big-toothed aspen, red maple, balsam fir, and red oak poletimber/sawtimber. Mostly balsam fir and white pine in the understory.
34	4139 - Aspen, Mixed Deciduous	High Density Pole	40.8	61	81-110	Nice quality mixed aspen poletimber/sawtimber, with a consistent red oak and red maple component. Adjacent to Berry Creek floodplain and private property. Medium to heavy balsam fir understory.
37	6120 - Lowland Cedar	High Density Pole	15.9	86	51-80	Floodplain to Berry Creek. Mostly cedar with a mix of deciduous.
40	4130 - Aspen	High Density Sapling	67.3	6		Aspen regen from 2007 final harvest. Well stocked, good quality. Red maple sapling regen also exists. Scattered, large white pine sawtimber found throughout stand, as well as sparse scattered red oak sawtimber/poletimber. Sparse, scattered white pine saplings can also be found in the understory.
42	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	6.1	56	1-50	Poorly stocked poletimber stand of mostly quaking aspen, with lesser amounts of red maple, balsam fir, and white pine on very wet soil. Mostly tag alder in understory.
44	42200 - Natural White Pine	Medium Density Pole	34.9	86	1-50	Medium stocked white pine poletimber/sawtimber and sparse, scattered red oak and red pine sawtimber in canopy. Fairly dense mixed aspen/red maple regen in understory from 1996 removal harvest. Patchy white pine saps also present in understory.
45	42210 - Natural Red Pine	High Density Log	5.5	71	81-110	Red pine sawtimber and poletimber with scattered large white pine saw log trees. Lesser amounts of big-toothed aspen, red oak, and red maple also present. White pine and balsam fir make up most of understory.
46	42110 - Planted Red Pine	High Density Pole	9.7	53	200+	Lesser quality red pine plantation, mostly stunted poletimber. Scattered mixed aspen, oak, and hardwood sawlog and poletimber is also found in the plantation. Stand has never been treated.
47	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	14.3	51	81-110	Stand consists of a mix of red maple, red oak, white pine, big-toothed aspen, and red pine in sawtimber and poletimber sizes. Adjacent to Berry Cr.
48	4310 - Pine, Oak Mix	High Density Pole	17.2	59	81-110	Stand is a mix of jack pine, red oak, and quaking aspen with lesser amounts of red maple and white pine.
50	4130 - Aspen	High Density Pole	43.4	61	81-110	Stand consists of a mix of mostly quaking aspen poletimber and bigtoothed aspen sawlogs, with lesser amounts of scattered red maple, red oak, white oak, and white pine sawtimber and poletimber.

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Gaylord Mgt. Unit

## Report 8 – Forested Stands

Compartment: 142  
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	4133 - Aspen, Mixed Pine	Low Density Pole	16.1	39	1-50	Lower stocked, young, mixed stand including quaking/big-toothed aspen, red maple, red oak, white oak, red pine, white pine, and jack pine pole timber and saplings.
53	42110 - Planted Red Pine	High Density Pole	16.0	53	141-170	Lesser quality, small diameter red pine poletimber. Scattered mixed aspen, hardwood, and oak sawlogs and poles are also found in the stand. Stand has never been treated.
54	42201 - Natural White Pine, Mixed Deciduous	High Density Pole	26.3	41	1-50	Stand consists of lesser stocked large red oak, white oak, quaking aspen, and red maple. A heavier stocking of 20 - 30' white pine poletimber is also present.
55	4130 - Aspen	High Density Sapling	5.8	6		Aspen/red maple regen from 2007 final harvest.
57	42290 - Natural Mixed Pine	High Density Pole	18.4	56	51-80	Stand consists of a mix of mostly 2 to 3 stick jack pine poletimber with lesser amounts of red pine, white pine, red maple, and red/white oak. Adjacent to snowmobile trail.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	710 - Sand, Soil	1.2	No	Unspecified	
8	3302 - Low Density Conifer Trees	3.7	No	Unspecified	Scattered red pine, white pine, white spruce saps and poletimber along with deciduous shrubs present. Snowmobile trail runs through this stand.
9	122 - Road/Parking Lot	3.2	No	Unspecified	Pickeral Lake Rd.
10	3301 - Low Density Deciduous Tree	33.7	No	Unspecified	Scattered sugar maple, black cherry, mixed aspen, and pin cherry saps and small poletimber on sparse ground. Adjacent to county road.
20	310 - Herbaceous Openland	8.8	No	Unspecified	Grass with sparse scattered shrubs and hardwood saplings.
21	50 - Water	60.7	No	Unspecified	Active beaver pond.
26	6223 - Inundated Shrub Swamp	8.5	No	Unspecified	Very wet lowland shrub from over flow from adjacent beaver pond.
35	3303 - Mixed Low Density Trees	23.3	No	Unspecified	Three strips of sparse white pine, jack pine, black cherry saps and poletimber.
36	6224 - Treed Bog	1.5	No	Unspecified	
38	3102 - Grass	122.3	Plantation	Red Pine	Stand was harvested in 2011. East half was trenched in 2011 and planted in 2012 to red pine. West half was trenched in 2012 and will be planted to red pine in 2013. Sparse, scattered aspen saplings, red oak stump sprouts, and volunteer jack pine also present.
39	3102 - Grass	40.6	No	Unspecified	
41	3102 - Grass	1.4	No	Unspecified	Grass stand with encroaching aspen saps.
43	6220 - Alder/willow	2.8	No	Unspecified	
49	3205 - Mixed Upland Shrub	3.1	No	Unspecified	Low shrubs with sparse, scattered aspen, hardwood, and jack pine saps.
52	3303 - Mixed Low Density Trees	2.6	No	Unspecified	
56	6220 - Alder/willow	4.0	No	Unspecified	