



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 207

Entry Year 2015

Acreage: 1,941

County Cheboygan

Management Area: Cheboygan Lake Plain

Revision Date: 03/11/2013

Stand Examiner: Shannon Harig

Legal Description:

T35N-R01E, Sections 4,9,16

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:

The topography in this compartment is very level. Most of this compartment is comprised of Grayling-Rubicon and Cheboygan-Blue Lake Association soils.

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

This compartment is contiguous state ownership and surrounded by state land. There is very little residential development in the area. This compartment gets a lot of use from hunters and mushroom pickers as well as motorized recreation on the motorcycle trail.

Unique Natural Features:

Potential for northern goshawk, bald eagle, and osprey, ram's head lady's-slipper, limestone oak fern, round-leaved orchis, and calypso orchid in mixed conifer swamps.

Archeological, Historical, and Cultural Features:

There is a limited potential for archeological concerns in this compartment.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment is in the Black River watershed, near the Upper Black River and important lake sturgeon spawning grounds. Prescribed management activities are far enough away from the river that Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

This compartment consists mostly of upland habitat consisting of red and jack pine, mixed oak, and aspen. Harvest will concentrate on the harvest and regeneration of mix habitat of jack pine, oak, and aspen. Some mature oak will be left in these treatments for current hard mast production. These treatments will benefit white-tailed deer, wild turkey, ruffed grouse, and various songbirds.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 200 feet. The Devonian Traverse Group subcropps below the glacial drift. The Traverse is used for cement and stone elsewhere in the State. Gravel pits are located just to the east and the compartment should have some potential. The nearest oil and gas production, the Niagaran Reef Trend, is located 12 miles to the south. The Compartment is leased for oil and gas development for the Collingwood Formation.

Vehicle Access:

Good access to most of the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

Red Bridge ORV Trail and Route runs through the compartment.

Fire Protection:

Some potential for a large wildfire.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

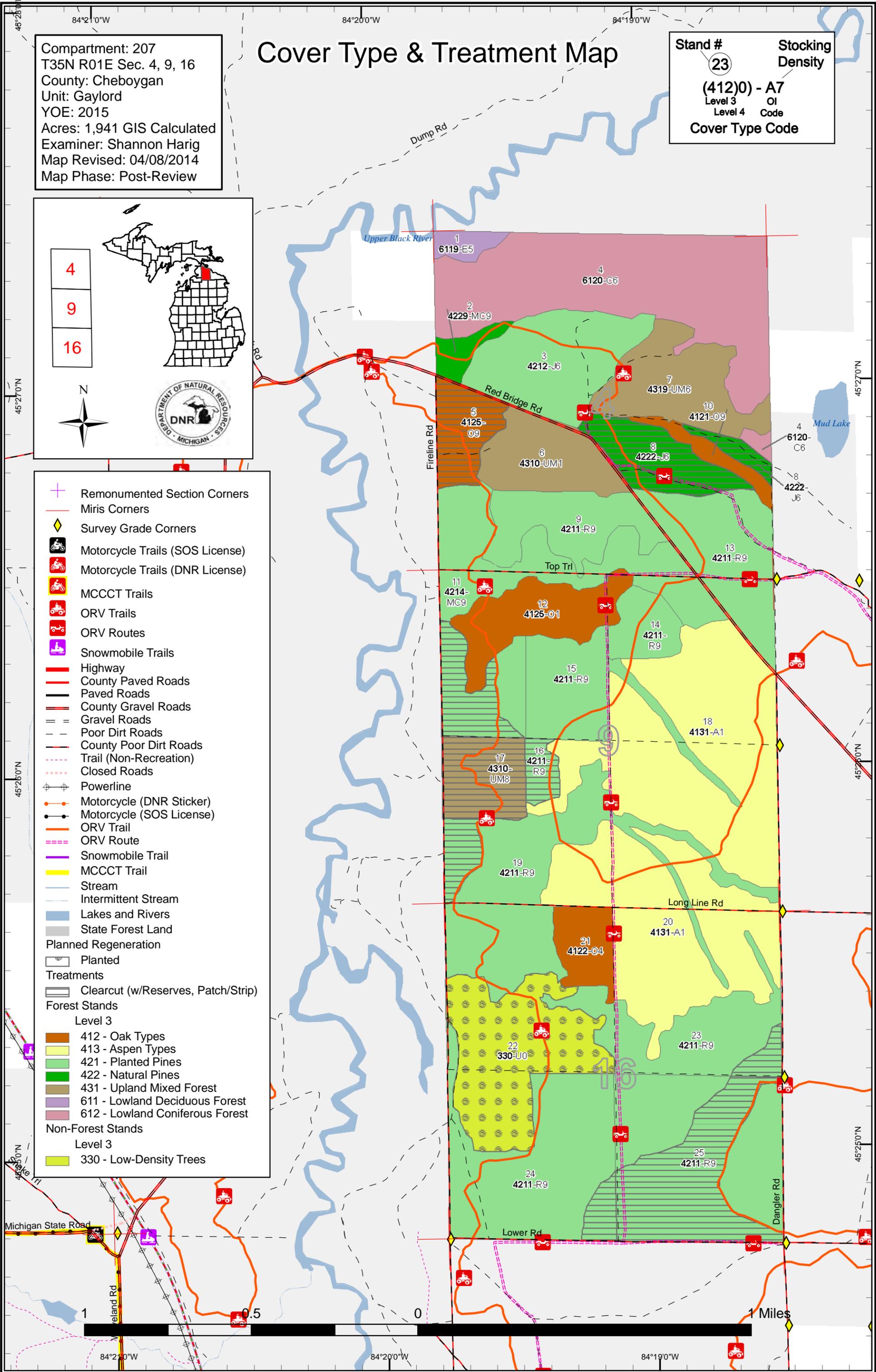
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatment Map

Compartment: 207
 T35N R01E Sec. 4, 9, 16
 County: Cheboygan
 Unit: Gaylord
 YOY: 2015
 Acres: 1,941 GIS Calculated
 Examiner: Shannon Harig
 Map Revised: 04/08/2014
 Map Phase: Post-Review

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

- Remonumented Section Corners
- Miris Corners
- Survey Grade Corners
- Motorcycle Trails (SOS License)
- 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
- Powerline
- Motorcycle (DNR Sticker)
- Motorcycle (SOS 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)
- Forest Stands**
- Level 3**
- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3**
- 330 - Low-Density Trees



Stand Boundary Map

Compartment: 207
 T35N R01E Sec. 4, 9, 16
 County: Cheboygan
 Unit: Gaylord
 YOE: 2015
 Acres: 1,941 GIS Calculated
 Examiner: Shannon Harig
 Map Revised: 04/08/2014
 Map Phase: Post-Review

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

4
 9
 16

N
 DEPARTMENT OF NATURAL RESOURCES
 DNR
 MICHIGAN

- Remonumented Section Corners
- Miris Corners
- Survey Grade Corners
- Motorcycle Trails (SOS License)
- 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
- Powerline
- Motorcycle (DNR Sticker)
- Motorcycle (SOS License)
- ORV Trail
- ORV Route
- Snowmobile Trail
- MCCCT Trail
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

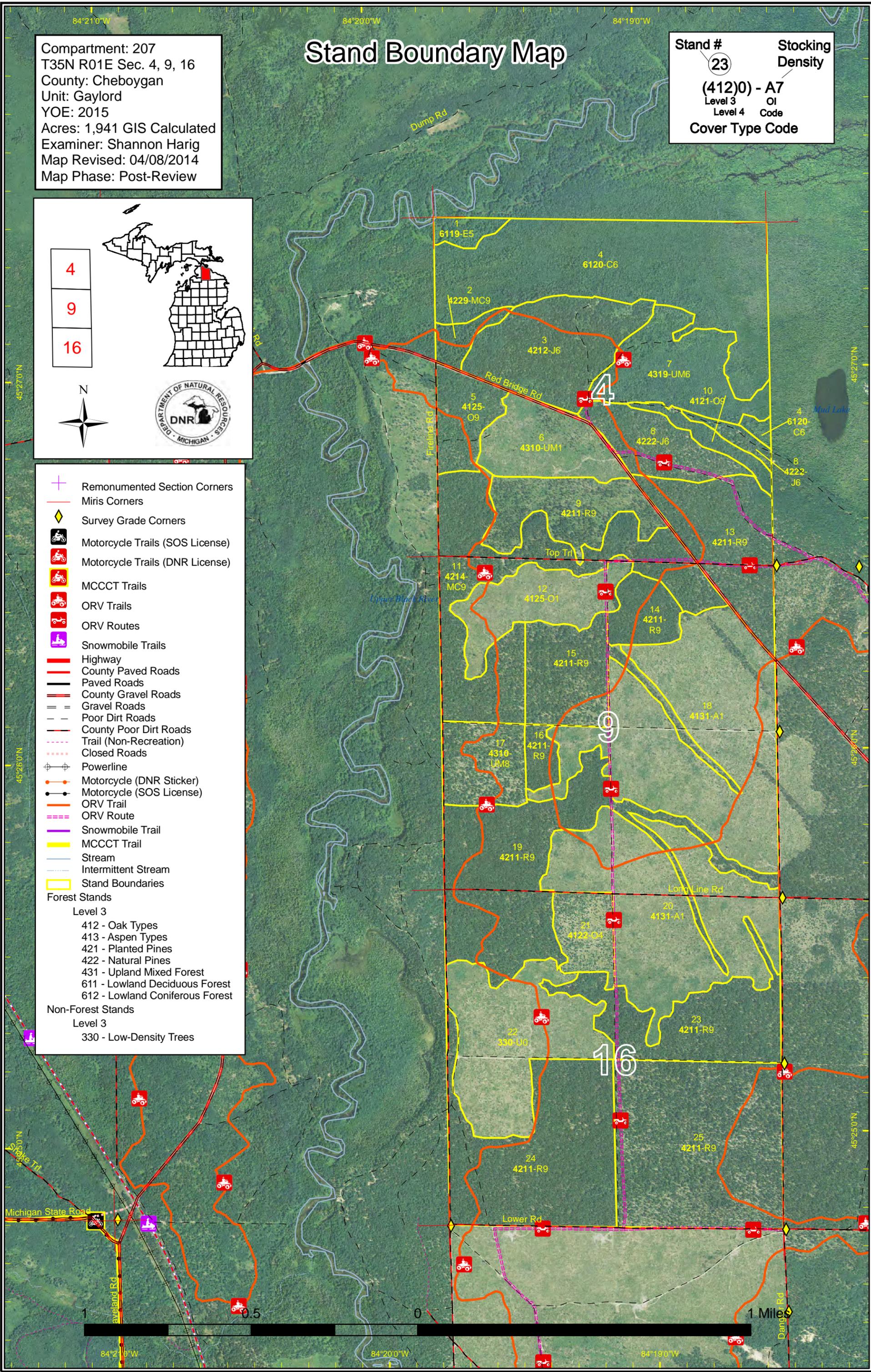
Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

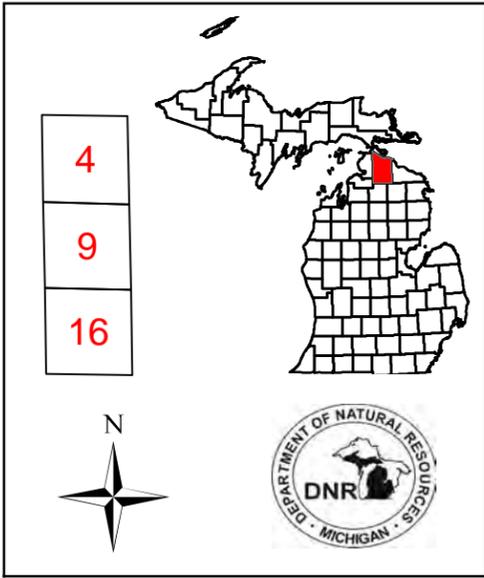
- 330 - Low-Density Trees



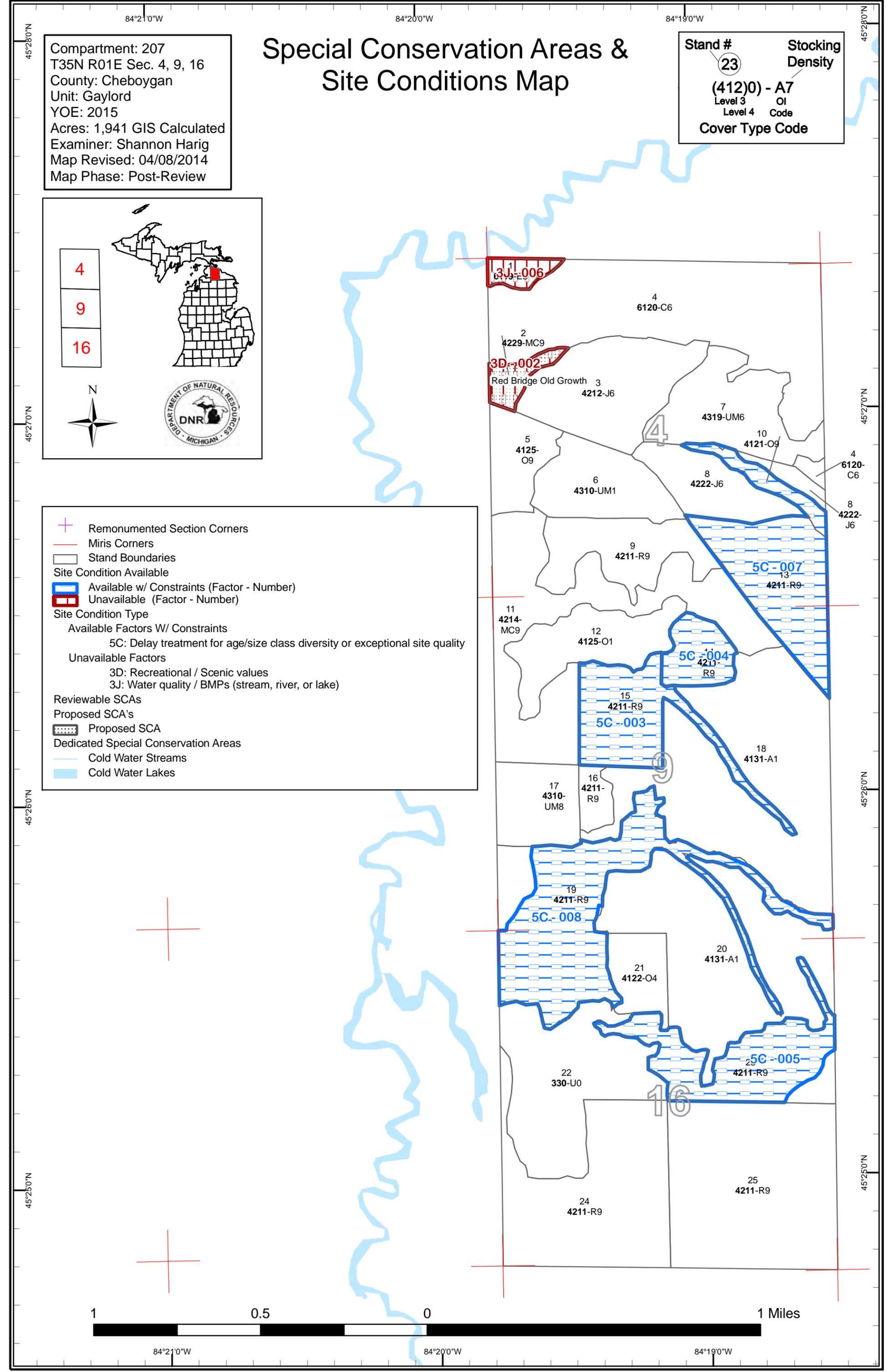
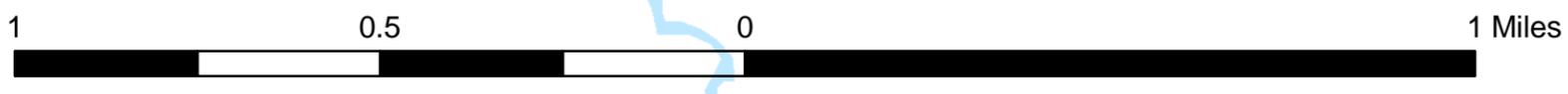
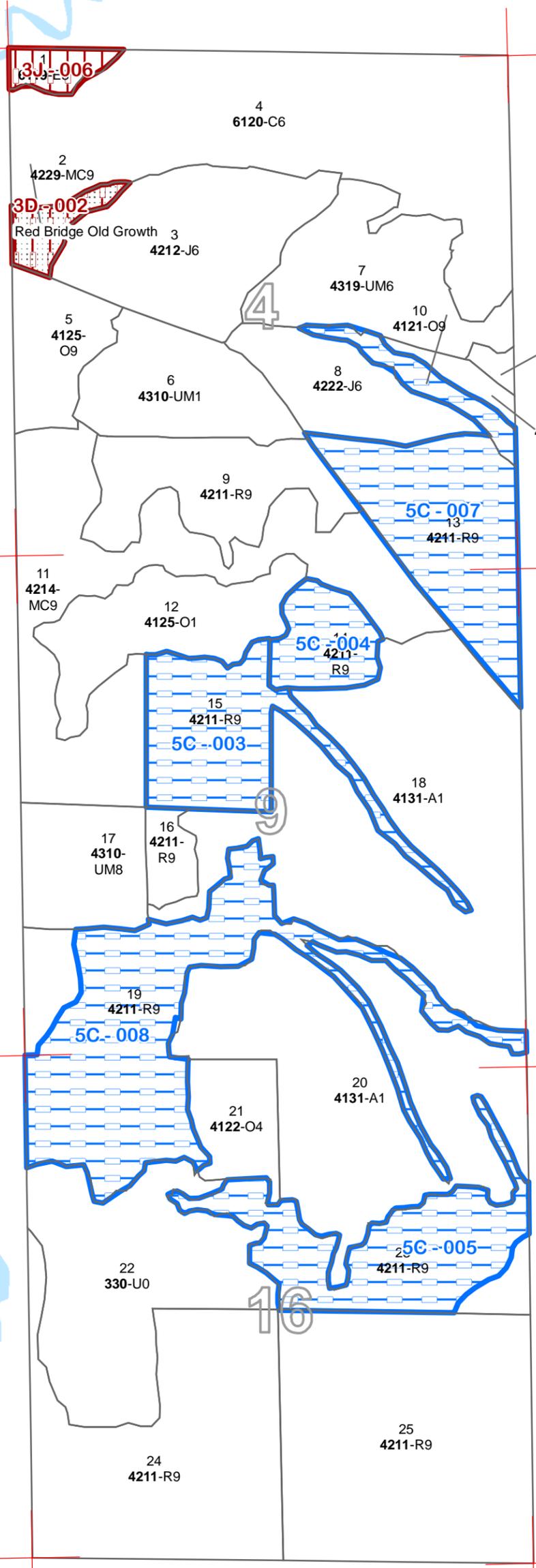
Special Conservation Areas & Site Conditions Map

Compartment: 207
 T35N R01E Sec. 4, 9, 16
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 YOE: 2015
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Stand #
 23
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



+ Remonumented Section Corners
— Miris Corners
 Stand Boundaries
 Site Condition Available
 Available w/ Constraints (Factor - Number)
 Unavailable (Factor - Number)
 Site Condition Type
 Available Factors W/ Constraints
 5C: Delay treatment for age/size class diversity or exceptional site quality
 Unavailable Factors
 3D: Recreational / Scenic values
 3J: Water quality / BMPs (stream, river, or lake)
 Reviewable SCAs
 Proposed SCA's
 Proposed SCA
 Dedicated Special Conservation Areas
— Cold Water Streams
 Cold Water Lakes



Cover Type & Treatment Map

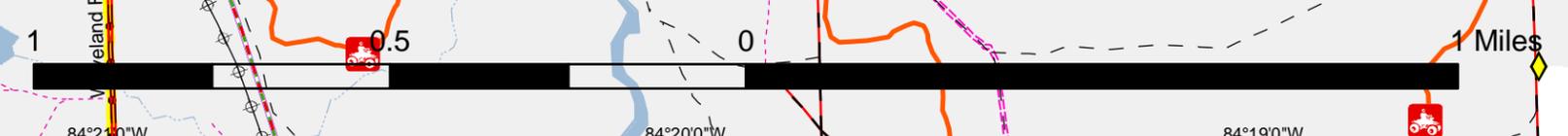
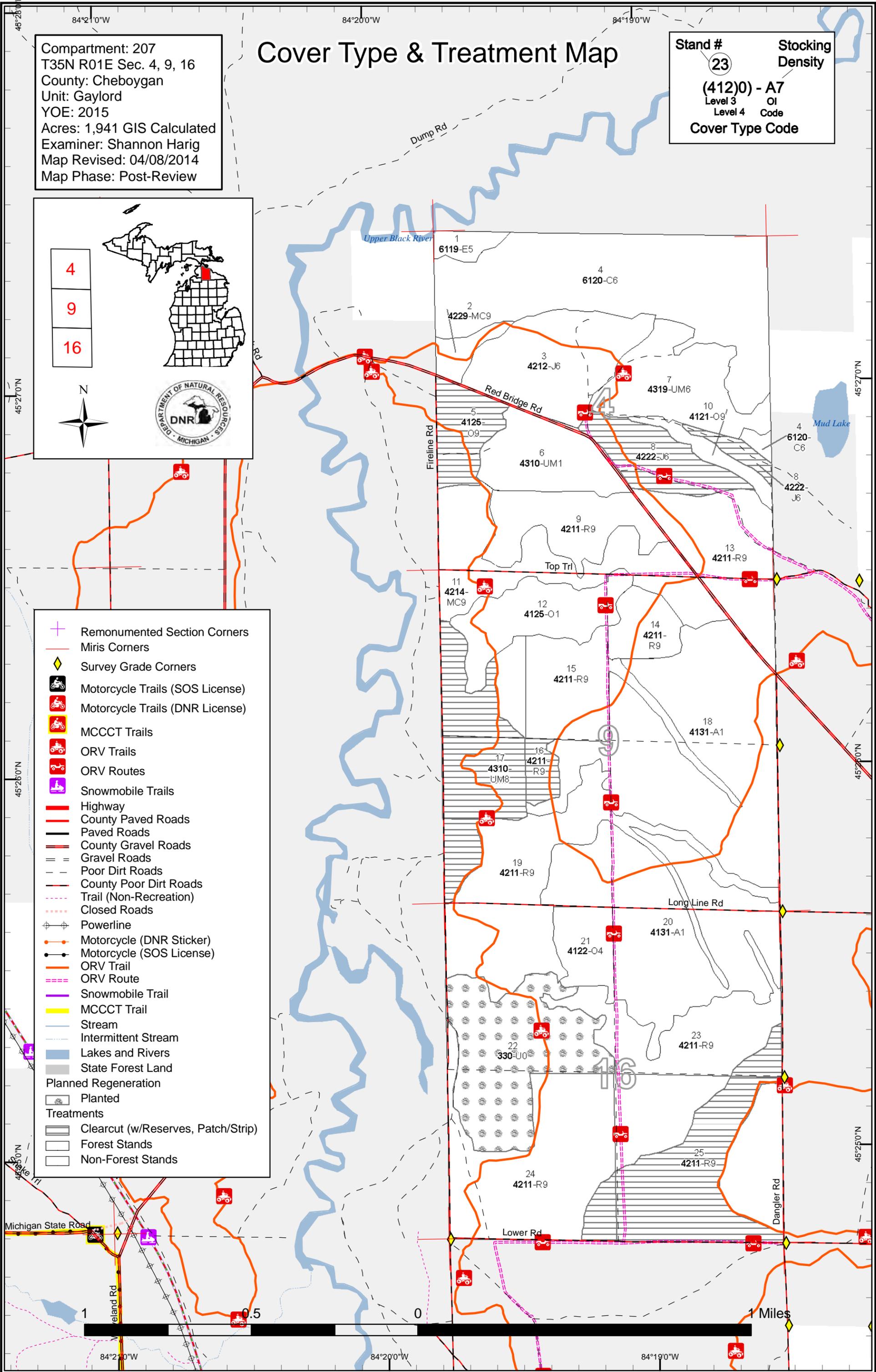
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- Planted
- Treatments**
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- Forest Stands
- Non-Forest Stands



Report 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	361	0	0	0	0	0	0	0	0	0	0	0	0	0	361
Cedar	0	0	0	0	0	0	0	0	186	0	0	0	0	0	186
Jack Pine	0	0	0	79	0	0	0	48	0	0	0	0	0	0	128
Low-Density Trees	105	0	0	0	0	0	0	0	0	0	0	0	0	0	105
Lowland Deciduous	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11
Oak	54	27	0	0	0	0	0	0	44	0	0	0	0	0	125
Planted Mixed Pines	0	0	0	0	0	0	0	131	0	0	0	0	0	0	131
Red Pine	0	0	0	0	0	0	579	150	0	0	0	0	0	0	729
Upland Mixed Forest	51	0	0	66	0	0	0	40	0	0	0	0	0	0	157
Total	571	27	0	146	0	0	0	627	321	230	10	0	11	0	1941



Report 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2015

Compartment 207
Total Compartment Acres: 1,941

Acres by Treatment Type

Commercial Harvest - 272 Tree Planting - 82 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Natural Pines	48	0	0	0	0	0	48
Oak Types	31	0	0	0	0	0	31
Planted Pines	153	0	0	0	0	0	153
Upland Mixed Forest	40	0	0	0	0	0	40
Total	272	0	0	0	0	0	272



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	52207005-CC	31.1	4125 - Black, N. Pin Oak	High Density Log	95	51-80	Harvest	Clearcut	4125 - Black, N. Pin Oak	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut with no reserves. The lack of vigor in the stand will result in most of the retention dying or blowing over before next entry. Protect										
<u>Specs:</u> recreational trail.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Oak, aspen and pine regeneration is acceptable.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
8	52207008-CC w/ reserves	48.2	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	74	51-80	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut with reserves. Leave retention in 1 or 2 islands. Tree length skid during non-snow months to scarify and distribute jack pine seed to										
<u>Specs:</u> promote natural regeneration. Mark several clumps of oak to leave. Protect recreational trail. Orient leave trees around trail where possible.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Jack pine, oak and aspen regeneration is acceptable. If stocking level is too low, trench and plant jack pine seedlings to reach minimum										
<u>Steps:</u> standards.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
11	52207011-CC w/ reserves	27.9	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Log	86	81-110	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut with reserves. Leave retention in islands. Tree length skid during non-winter months to scarify and distribute jack pine seed to promote										
<u>Specs:</u> natural regeneration. Cut up to motorcycle trail, taking care to protect trail during harvest. Leave clumps of 2-3 oak per acre oriented along trail where possible. Protect recreational trail.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Pine, oak and aspen regeneration is acceptable. If regeneration does not meet minimum standards, plant jack pine in areas of no regen.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
16	52207016-CC w/ reserves	11.3	42110 - Planted Red Pine	High Density Log	79	111-140	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut with reserves, leave retention in islands. Tree length skid during non-winter months to scarify and distribute jack pine seed to promote										
<u>Specs:</u> natural regeneration. Take care to protect trail during harvest. Leave clumps of 2-3 oak per acre oriented around trail where possible.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Pine, oak and aspen regeneration is acceptable. If regeneration does not meet minimum standards, plant jack pine in areas of no regen.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



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	52207017-CC w/ reserves	39.6	4310 - Pine, Oak Mix	Medium Density Log	86	51-80	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut with reserves, leave retention in islands. Tree length skid during non-winter months to scarify and distribute jack pine seed to promote natural regeneration. Take care to protect trail during harvest. Leave clumps of 2-3 oak per acre oriented around trail where possible.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Pine, oak and aspen regeneration is acceptable. If regeneration does not meet minimum standards, plant jack pine in areas of no regen.										
<u>Proposed Start Date:</u> 10/01/2014										
19	52207019-CC w/ reserves	14.0	42110 - Planted Red Pine	High Density Log	79	111-140	Harvest	Clearcut with Reserves	42221 - Natural Jack Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut with reserves. Leave retention in islands. Cut up to motorcycle trail. Tree length skid during non-winter months to scarify and distribute jack pine seed to promote natural regeneration. Cut up to trail, taking care to protect trail during harvest. Leave clumps of 2-3 oak per acre oriented around trail where possible.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Pine, oak and aspen regeneration is acceptable. If regeneration does not meet minimum standards, plant jack pine in areas of no regen.										
<u>Proposed Start Date:</u> 10/01/2014										
23	52207023-CC	8.0	42110 - Planted Red Pine	High Density Log	86	111-140	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut, no retention due to small size. Tree length skid during non-winter months to scarify and distribute jack pine seed to promote natural regeneration. Leave clumps of 2-3 oak per acre.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Pine, oak and aspen regeneration is acceptable. If regeneration does not meet minimum standards, plant jack pine in areas of no regen.										
<u>Proposed Start Date:</u> 10/01/2014										
24	52207024-Cut	9.9	42110 - Planted Red Pine	High Density Log	78	111-140	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut, no retention due to small size. Tree length skid during non-winter months to scarify and distribute jack pine seed to promote natural regeneration. Take care to protect trail during harvest. Leave clumps of 2-3 oak per acre oriented around trail where possible.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Pine, oak and aspen regeneration is acceptable. If regeneration does not meet minimum standards, plant jack pine in areas of no regen.										
<u>Proposed Start Date:</u> 10/01/2014										

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	52207025-CC w/ reserves	82.4	42110 - Planted Red Pine	High Density Log	77	81-110	Harvest	Clearcut with Reserves	42120 - Planted Jack Pine	Fld. Tr. Bdy. - Incomplete

Prescription: Clearcut with reserves, leave retention in islands. Tree length skid and chip tops to prepare site for trenching and planting. Take care to protect trail during harvest. Leave clumps of 2-3 oak per acre oriented around trail where possible.

Other
Comments:

Next
Steps: Pine, oak and aspen regeneration is acceptable. If regeneration does not meet minimum standards, plant jack pine in areas of no regen.

Proposed
Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 272.5**



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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
Shannon Harig : Examiner

Compartment 207
Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions			
	Available	Not Available		No	5C	3J	3D
359	359		Aspen	359	0		
185	185	0	Cedar	185		0	
127	127		Jack Pine	127			
10		10	Lowland Deciduous			10	
11		11	Natural Mixed Pines				11
124	124		Oak	112	13		
131	131		Planted Mixed Pines	131	0		
727	727		Red Pine	380	347		
157	157		Upland Mixed Forest	157	0		
1,832	1,811	21	Total Forested Acres	1,451	360	10	11
	99%	1%	Relative Percent				

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	3D: Recreational / Scenic values	11				
Comments:							
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	59				
Comments:							
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24				
Comments:							

Report 5 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

Compartment 207
Year of Entry 2015

005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	69
Comments:			
006	Not Available	3J: Water quality / BMPs (stream, river, or lake)	10
Comments:			
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	86
Comments:			
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	124
Comments:			



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Red Bridge Old Growth	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	SCA	11.3
Comments Old Red Pine and White Pine				



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	9.6	102		
2	42290 - Natural Mixed Pine	High Density Log	11.4	144	111-140	Large red and white pine. Look very healthy. Cored a smaller red pine that was 143 years old. Did not see any old stumps, it doesn't appear that this stand was ever logged.
3	42120 - Planted Jack Pine	High Density Pole	79.3	37	81-110	
4	6120 - Lowland Cedar	High Density Pole	185.5	98	1-50	
5	4125 - Black, N. Pin Oak	High Density Log	31.1	95	51-80	The oak in this stand is dying. The aspen and jack pine are in fair health. I don't know how much longer this stand will hold.
6	4310 - Pine, Oak Mix	Low Density Sapling	51.0	6		
7	4319 - Mixed Upland Forest	High Density Pole	66.2	35	51-80	
8	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	48.2	74	51-80	Jack pine is fairly healthy. Aspen and oak showing signs of decline.
9	42110 - Planted Red Pine	High Density Log	53.6	75	81-110	
10	4121 - Oak, Aspen	High Density Log	13.0	90	51-80	Stand looks healthy.
11	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Log	131.4	86	81-110	Red pine looks good, jack pine and oak are showing signs of decline.
12	4125 - Black, N. Pin Oak	Low Density Sapling	54.0	6		Mixed regen looks good.
13	42110 - Planted Red Pine	High Density Log	73.4	86	81-110	Red pine looks healthy.
14	42110 - Planted Red Pine	High Density Log	24.4	79	141-170	Red pine less vigorous than in most adjacent stands, smaller diameters and heights.
15	42110 - Planted Red Pine	High Density Log	58.9	79	81-110	Red pine looks healthy and vigorous, oak is dead and dying.
16	42110 - Planted Red Pine	High Density Log	11.3	79	111-140	Red pine looks healthy. Diameters are smaller than in adjacent stands.
17	4310 - Pine, Oak Mix	Medium Density Log	39.6	86	51-80	Looks like aspen and jack pine were harvested in 1996. Some patchy aspen, pine and oak regen where larger canopy gaps exist.

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Gaylord Mgt. Unit

Report 8 – Forested Stands

Compartment: 207
Year of Entry: 2015

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4131 - Aspen, Oak	Low Density Sapling	200.6	7		Jack Pine planted in 2011.
19	42110 - Planted Red Pine	High Density Log	138.5	79	111-140	Red Pine looks healthy, oak is showing signs of decline. Large white pine and a lot of white pine regen in NE finger of the stand.
20	4131 - Aspen, Oak	Low Density Sapling	160.0	6		Jack Pine planted in 2010 and re-planted in 2011.
21	4122 - Oak, Pine	Low Density Pole	26.6	17	1-50	
23	42110 - Planted Red Pine	High Density Log	76.5	86	111-140	
24	42110 - Planted Red Pine	High Density Log	130.9	78	111-140	Red and Jack Pine look healthy, oak showing signs of decline.
25	42110 - Planted Red Pine	High Density Log	161.1	77	81-110	Red Pine is healthy. Everything but Red Pine and oak were cut 2 entries ago. Oak is not very vigorous. Red Pine overstory is too dense to allow any appreciable regeneration of any species originally present.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
22	3303 - Mixed Low Density Trees	105.3	Plantation	Jack Pine	