DNR DNR DNR

Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 188
Entry Year 2015
Acreage: 1,765

County Cheboygan

Management Area: Cheboygan Basin Moraines

Revision Date: 04/01/2013

Stand Examiner: Paul Roell

Legal Description:

T35N-R1W Sections 1, 2, & 3

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:

Most of the high ground in this compartment contains well-drained loamy sand. These flat to gently rolling areas are dominated by soils of the Cheboygan Series. The remainder of the compartment is primarily lowland swamp with very poorly drained organic soils of the Brevort, Lupton and Roscommon Muck Series.

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

This compartment is surrounded by limited private ownership and other state ownership including the Lee Grande Ranch which is a walk in hunting area of State ownership to the south. Most of the private land is seasonal hunting property. There is a substantial amount of ORV use and an even greater amount of hunting for grouse, deer, and elk.

Unique Natural Features:

There are no MNFI occurrence records within this compartment. There is the potential for ram's head lady's-slipper, limestone oak fern, round-leaved orchids, and calypso orchid in cedar swamps.

Archeological, Historical, and Cultural Features:

There is a known feature within the compartment.

Special Management Designations or Considerations:

Due to past management practices there is a 849 acre stand of late 30 year old aspen. We will harvest portions of this stand to promote age class diversity which will increase wildlife habitat within this compartment.

Watershed and Fisheries Considerations:

This compartment is in the Mud Creek watershed within the Black Lake drainage. There are no water bodies in this compartment, so Fisheries has no comments at this time.

Wildlife Habitat Considerations:

This compartment consists mostly of upland areas of aspen with an area of lowland habitat in the east end of the compartment. A number of aspen stands will be treated in this compartment to provide age-class diverstiy and early successional habitat. In addition, the majority of the openings in this compartment are going to be maintained in partnership with the Ruffed Grouse Society. These treatments will benefit ruffed grouse, American woodcock, white-tailed deer, wild turkey, and various songbirds.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact sand and gravel and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 50 and 400 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is used for cement and stone in the State. Gravel pits are not located in the area, but 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. The Compartment is leased for the Collingwood/Utica Shale Formations exploration.

Vehicle Access:

Access is good throughout the compartment but some the roads are in poor condition.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Hunting is the primary use of the compartment with a small portion of the Shore to Shore Equestrian trail in section three.

Fire Protection:

No significant fire concerns in most of the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

Site Condition Details

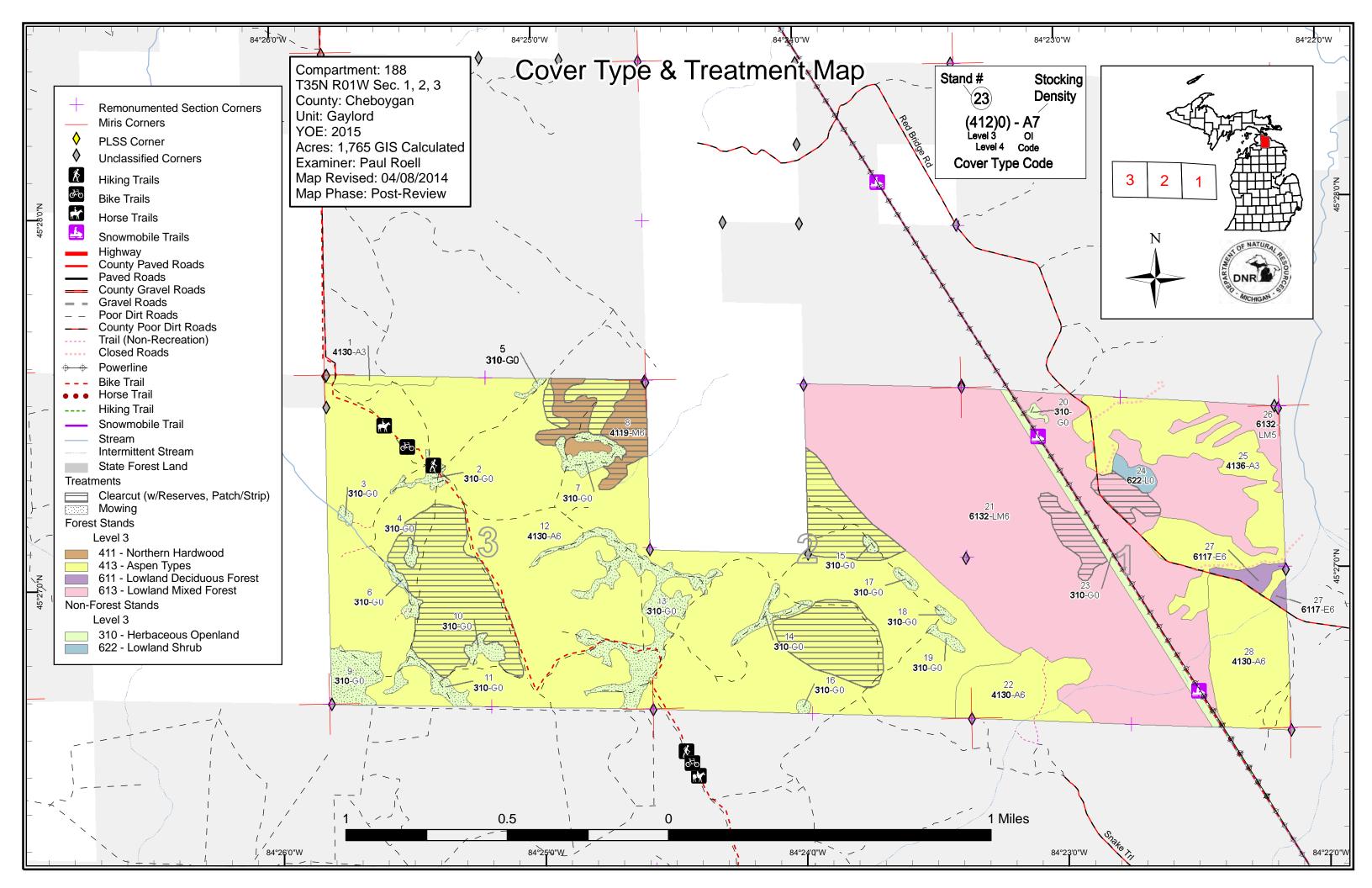
The following information is displayed, where pertinent, on the attached compartment maps:

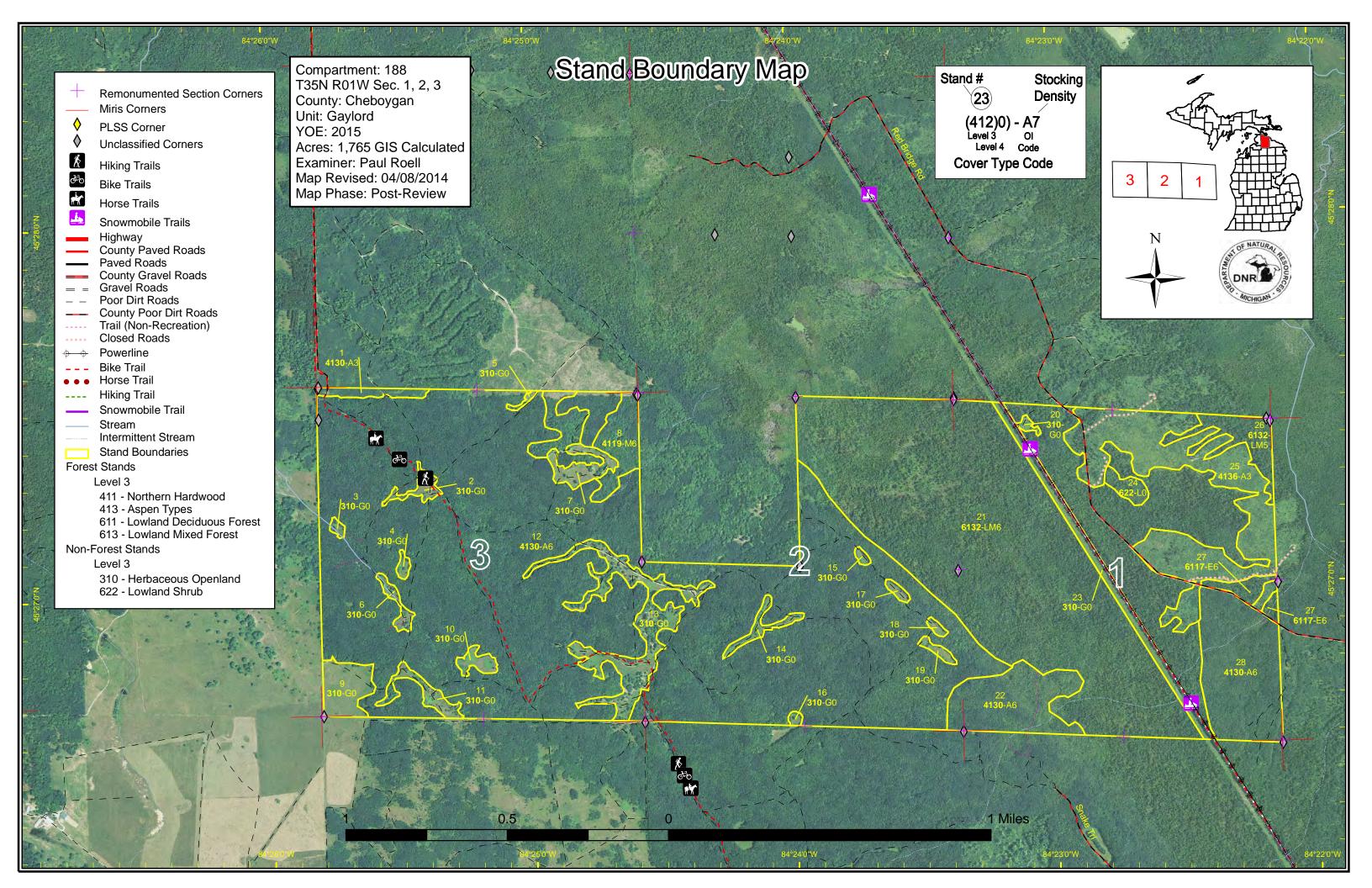
Base feature information, stand boundaries, cover types, and numbers

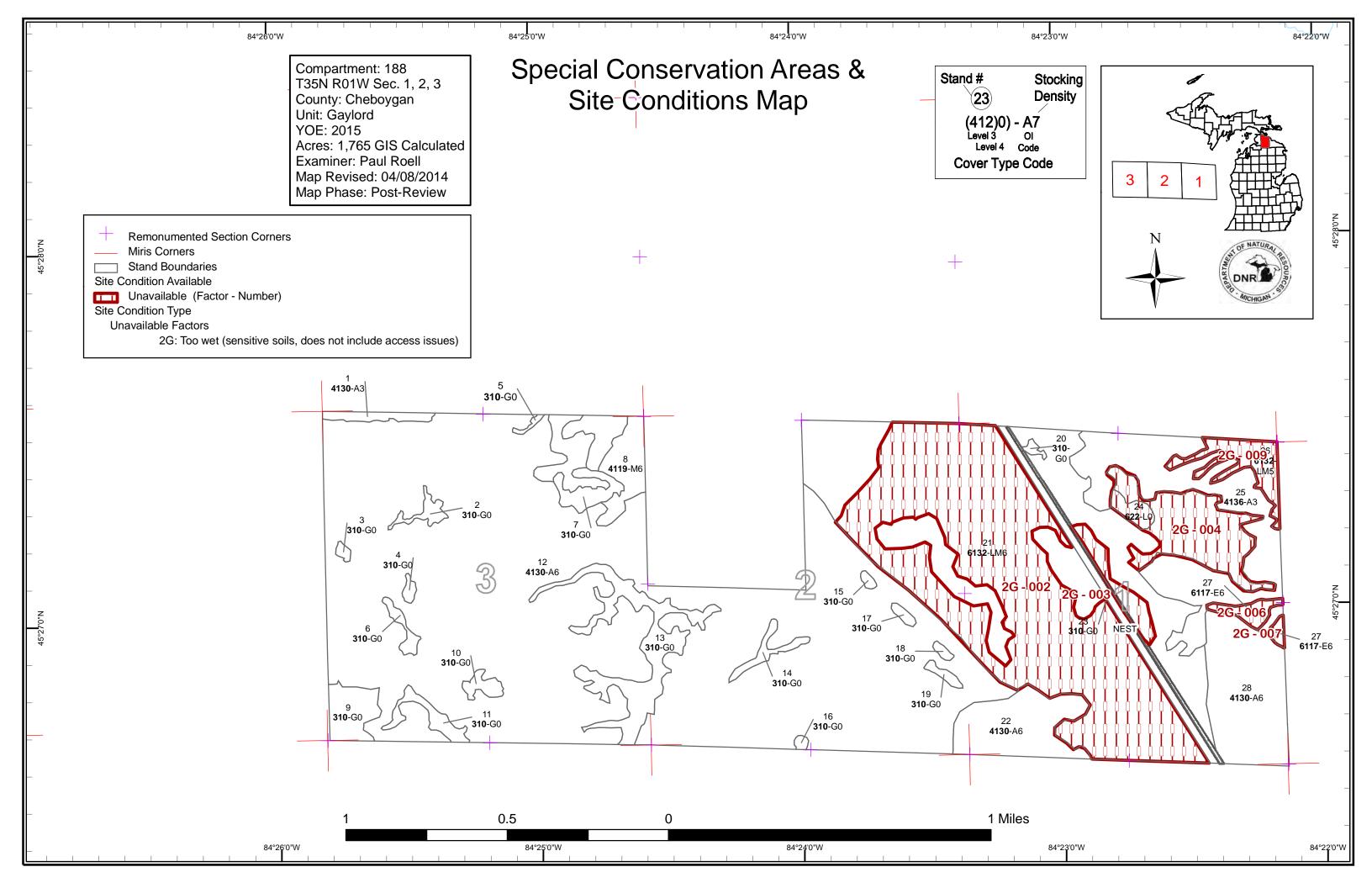
Proposed treatments

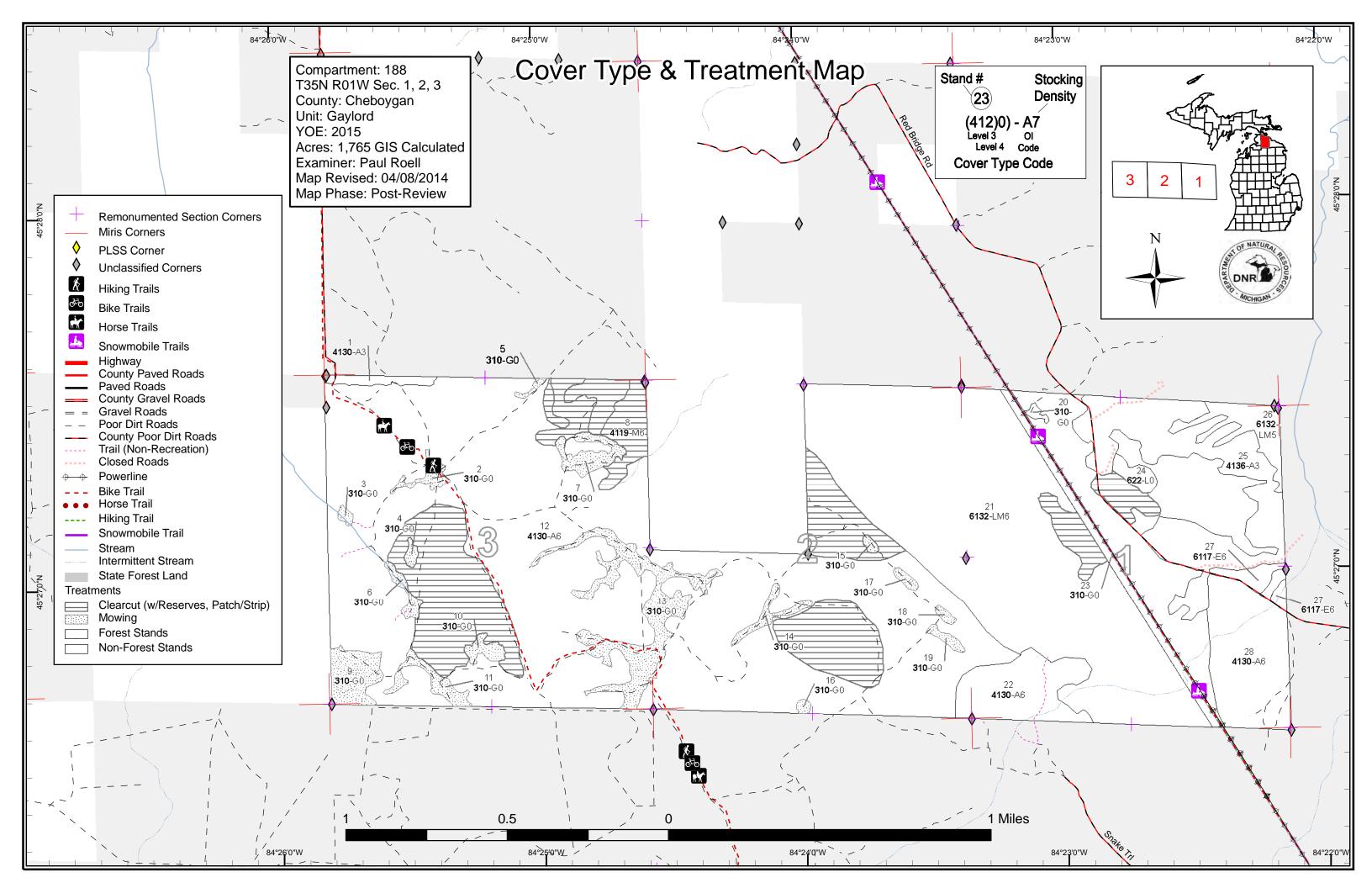
Site condition boundaries

Details on the road access system









Gaylord Mgt. Unit

Paul Roell : Examiner

Compartment 188 Year of Entry 2015



						Age	Class									
		000	'a'g	Se S	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	A LONG	S. S	88 /	Na Va	8 8	89 /	0,00	70,70	No. No.	A A	, or ,
Aspen	110	0	110	849	0	0	0	0	0	0	0	0	0	0	1069	
Herbaceous Openland	124	0	0	0	0	0	0	0	0	0	0	0	0	0	124	
Lowland Deciduous	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	526	0	0	0	0	526	
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Northern Hardwood	0	0	0	0	33	0	0	0	0	0	0	0	0	0	33	
Total	239	0	110	849	33	8	0	0	0	526	0	0	0	0	1765	



Report 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit Year of Entry 2015

Compartment 188
Total Compartment Acres: 1,765

Acres by Treatment Type

Commercial Harvest - 215 Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 10

	Cover Type by Harvest Method								
		/ (Mich Co.	Sec. of	N. S.	o line	Og Og		So De La Carte de
spen Types		162	0	0	0	0	0	162	
owland Mixed Forest		24	0	0	0	0	0	24	
lorthern Hardwood		30	0	0	0	0	0	30	
	Total	215	0	0	0	0	0	215	

Compartment: 188 Gaylord Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** BA **Treatment Treatment Cover Type** Acres CoverType Size Stand Approval n Method Objective d Name Density Age Range Type **Status** 29.6 4119 - Mixed High 42 51-80 Clearcut with 4116 - Mixed N. Fld. Tr. Bdy. -8 52188008-Cut Harvest Northern Hardwoods Density Reserves Hardwood - Aspen Incomplete Pole Prescription Clear Cut all trees two inches or greater in diameter. Retention is the part of the stand that is not getting treated. Protect non-forested openings Specs: during harvesting operations do not allow wood to be chipped or decked in the openings. Sign and protect the Shore to Shore trail/two track during harvest activites if it is used as a haul road. Other Comments: Regen survey. Acceptable regeneration is a fully stocked stand of northern hardwoods and mixed aspen. <u>Next</u> Steps: Proposed Start Date: 10/01/2014 13.5 39 Harvest Clearcut with 4130 - Aspen Fld. Tr. Bdy. -12 52188012 ne 4130 - Aspen High w_small_smal Density Reserves Incomplete I-Cut Pole Prescription Clear cut all trees two inches and greater in diameter. Retention is a portion of stand 12 that is not being harvested. Protect non-forested openings during harvesting operations do not allow wood to Specs: be chipped or decked in the openings. Sign and protect the Shore to Shore trail/two track during harvest activities if it is used as a haul road. Other_ Comments: <u>Next</u> Regen Survey. Acceptable regenreation is aspen with a mix of hardwood species. Steps: Proposed Start Date: 10/01/2014 52188012_sm 148.3 4130 - Aspen 39 Harvest Clearcut with 4130 - Aspen Fld. Tr. Bdy. -12 High all-Cut Density Reserves Incomplete Pole Prescription Clear cut all trees two inches and greater in diameter. Specs: Retention is a portion of stand 12 that is not being harvested. Protect non-forested openings during harvesting operations do not allow wood to be chipped or decked in the openings. Sign and protect the Shore to Shore trail/two track during harvest activites. Other

Comments:

Regen survey. Acceptable regeneration is aspen with a mix of hardwood species.

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

52188021_sm 13.1 6132 - Mixed High 95 81-110 Harvest Clearcut with 6117 - Lowland Fld. Tr. Bdy. -Lowland Forest with all_exp-1-Cut Density Reserves Deciduous, Mixed Incomplete Coniferous

Prescription Clear cut all trees two inches and greater in diameter.

Retention is a portion of stand 21 that is not being harvested. Sign and protect the rail trail during harvest activites. Specs:

Other Comments:

Regen survey. Acceptable regeneration is a well stocked mix of current species, except Cedar. Next

Steps:

Proposed

10/01/2014 Start Date:

Compartment: 188 Gaylord Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type** Approval n **Density** Range Method Objective **Status** d Name Age Type 6132 - Mixed Clearcut with 6117 - Lowland 52188021_sm 10.8 High 95 81-110 Harvest Fld. Tr. Bdy. -21 Lowland Forest with Deciduous, Mixed all small-Cut Density Reserves Incomplete Coniferous Cedar Pole Prescription Clear cut all trees two inches and greater in diameter. Leave all white pine and red pine (4%). Retention is a portion of stand 21 that is not being Specs: harvested Other Comments: Regen survey. Acceptable regeneration is a well stocked mix of current species, except Cedar. <u>Next</u> Steps: **Proposed** Start Date: 10/01/2014 NF 52188002-4.2 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -Openland Incomplete NonFor Management Prescription Mow, / plant. Specs: **Other** Comments: <u>Next</u> Steps: **Proposed** Start Date: Unspecified NF_52188003-1.2 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -3 Incomplete Openland Management NonFor Prescription Mow, / plant. Specs: Other Comments: <u>Next</u> Steps: **Proposed** Start Date: Unspecified NF 52188004-1.6 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -NonFor Openland Management Incomplete Prescription Mow, / plant. Specs: <u>Other</u> Comments: **Next** Steps: Proposed Unspecified Start Date: NF 52188005-1.0 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -5

Management

Unspecified

NonFor

Prescription Mow, / plant.

Specs:
Other
Comments:
Next
Steps:
Proposed

Start Date:

Openland

Incomplete

Compartment: 188 Gaylord Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type Approval** n **Density** Method Objective **Status** d Name Age Range Type 310 - Herbaceous Non-Forest 3102 - Grass Fld. Tr. Bdy. -NF_52188006-3.7 Mowing 6 Incomplete NonFor Openland Management Prescription Mow, /plant. Specs: Other Comments: Next Steps: Proposed Unspecified Start Date: NF_52188007-9.4 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -Management Openland Incomplete NonFor Prescription Mow, / plant. Specs: Other Comments: Next Steps: Proposed Unspecified Start Date: 9 NF 52188009-15.0 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -Incomplete Openland Management NonFor Prescription Mow,/ plant. Specs: Other Comments: <u>Next</u> Steps: Proposed Start Date: Unspecified 10 NF_52188010-4.2 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -Incomplete Openland Management NonFor Prescription Mow,/plant. Specs: <u>Other</u> Comments: <u>Next</u> Steps: **Proposed** Start Date: Unspecified NF 52188011-7.5 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -Openland Management Incomplete NonFor Prescription Mow,/ plant. Specs: <u>Other</u> Comments: <u>Next</u> Steps: Proposed Start Date: Unspecified

Compartment: 188 Gaylord Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type Approval** n **Density** Method Objective **Status** d Name Age Range Type 310 - Herbaceous Non-Forest 3102 - Grass Fld. Tr. Bdy. -NF_52188013-41.4 Mowing 13 NonFor Openland Management Incomplete Prescription Mow,/ plant. Specs: Other Comments: Next Steps: Proposed Unspecified Start Date: NF_52188014-14 5.2 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -Openland Management Incomplete NonFor Prescription Mow/plant. Specs: Other Comments: Next Steps: Proposed 10/01/2014 Start Date: 15 NF 52188015-310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -Incomplete Openland Management NonFor Prescription Mow/plant. Specs: Other Comments: <u>Next</u> Steps: Proposed Start Date: Unspecified 16 NF_52188016-1.0 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -Incomplete Openland Management NonFor1 Prescription Mow,/plant. Specs: <u>Other</u> Comments: <u>Next</u> Steps: **Proposed** Start Date: 10/01/2014 NF 52188017-1.7 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -NonFor Openland Management Incomplete Prescription Mow/plant. Specs: <u>Other</u> Comments: <u>Next</u> Steps: Proposed Start Date: Unspecified

Gaylord Mgt. Unit Compartment: 188 Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size ВА Treatment **Treatment Cover Type Approval** n Method Objective Status Name **Density** Age Range Type NF_52188018-1.2 310 - Herbaceous Non-Forest 3102 - Grass Fld. Tr. Bdy. -18 Mowing NonFor Openland Management Incomplete Prescription Mow,/plant. Specs: Other Comments: Next Steps: Proposed Start Date: Unspecified NF_52188019-19 2.2 310 - Herbaceous Non-Forest Mowing 3102 - Grass Fld. Tr. Bdy. -NonFor Openland Management Incomplete Prescription Mow/plant. Specs: <u>Other</u> Comments: Next Steps: Proposed

Total Treatment Acreage Proposed:

Start Date:

Unspecified

317.1

Gaylord Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 188 a Site Condition s Year of Entry 2015 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Objective Method Status Name Range Density Age Type #Type! #Type! **Prescription** Specs: Other Comment: **Next** Steps: <u>Proposed</u> #Type! Start Date:

Total Treatment

Limiting Factor

Acreage Proposed: 0.0

Report 5 – Site Conditions

Gaylord Mgt. Unit

Paul Roell: Examiner

Compartment 188
Year of Entry 2015

Avail	ability for I	Management					
Total	Acres	Acres		Dominar	nt Site	e Cond	ditions
Acres	Available	Not Available		No	5E	2G	
1068	1058	9	Aspen	1,058	8	2	
8		8	Lowland Deciduous			8	1
525	156	369	Lowland Mixed Forest	156		369	1
33	33		Northern Hardwood	33			1
1,633	1,247	386	Total Forested Acres	1,247	8	378	
	76%	24%	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	Dominant Site						
	Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	2G: Too wet (sensitive soils, does not include access issues)	292				
(Comments:						
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	13				
(Comments:						
004	Not Available	2G: Too wet (sensitive soils, does not include access issues)	54				
(Comments:						

Report 5 – Site Conditions

Compartment 188

Gaylord Mgt. Unit

		Roell : Examiner		Year of Entry 2015	
006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	6		
C	Comments:				
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	2		
C	Comments:				
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	19		
C	Comments:				
011	Not Available	5E: Long Term Retention	3		
	Comments: 52188012-cut				
012	Not Available	5E: Long Term Retention	2		
	Comments: 52188012-Cut				
013	Not Available	5E: Long Term Retention	2		
	Comments: 52188012-cut				
014	Not Available	5E: Long Term Retention	1		
	Johnnents.				

Gaylord Mgt. Unit

Compartment: 188
Year of Entry: 2015



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
NEST Comments	Concentrated Recreation Area	Rail-Trail Corridor	SCA	7.3

Gaylord Mgt. Unit Compartment: 188





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.

Area	
SCA Archaeological Site Site An aquatic or terrestrial area of the State that contains physical rer sites of cultural and historical significance that may occur upon terr bottomlands. They include thousands of Native American settleme and British outposts, nineteenth century logging camps, mines and the Great Lakes, there are shipwrecks and other remains documer be identified by Natural heritage data from the State Historic Prese this compartment will be implemented in such a manner as to main the sensitive nature of this information, no further detail about local	estrial areas and Great Lakes its and burial sites, as well as French homesteads. Beneath the waters of ting the maritime trade. Such sites may vation Office. Proposed treatments in tain the integrity of these sites. Due to

S t	Gaylor	Gaylord Mgt. Unit			- Forested Stands	Compartment: 188 Year of Entry: 2015	OF NATURAL PRODUCTOR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN
1	4130 - Aspen	High Density Sapling	5.9	6			
8	4119 - Mixed Northern Hardwoods	High Density Pole	32.6	42	51-80		
12	4130 - Aspen	High Density Pole	849.1	39			
21	6132 - Mixed Lowland Forest with Cedar	High Density Pole	506.7	95	81-110		
22	4130 - Aspen	High Density Pole	43.7	26			
25	4136 - Aspen, Mixed Conifer	High Density Sapling	103.9	6			
26	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	18.9	99			
27	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	8.2	59	51-80		
28	4130 - Aspen	High Density Pole	66.5	26			

Compartment: 188 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	310 - Herbaceous Openland	4.2	No	Unspecified	
3	310 - Herbaceous Openland	1.2	Unspecified	Unspecified	
4	310 - Herbaceous Openland	1.6	No	Unspecified	
5	310 - Herbaceous Openland	1.0	Unspecified	Unspecified	
6	310 - Herbaceous Openland	3.7	No	Unspecified	
7	310 - Herbaceous Openland	9.4	Unspecified	Unspecified	
9	310 - Herbaceous Openland	15.0	Unspecified	Unspecified	
10	310 - Herbaceous Openland	4.2	Unspecified	Unspecified	
11	310 - Herbaceous Openland	7.5	No	Unspecified	
13	310 - Herbaceous Openland	41.4	Unspecified	Unspecified	
14	310 - Herbaceous Openland	5.2	No	Unspecified	
15	310 - Herbaceous Openland	1.1	Unspecified	Unspecified	
16	310 - Herbaceous Openland	1.0	Unspecified	Unspecified	
17	310 - Herbaceous Openland	1.7	Unspecified	Unspecified	
18	310 - Herbaceous Openland	1.2	Unspecified	Unspecified	
19	310 - Herbaceous Openland	2.2	Unspecified	Unspecified	
20	310 - Herbaceous Openland	1.2	Unspecified	Unspecified	
23	310 - Herbaceous Openland	21.3	Unspecified	Unspecified	Power line and the rail trail

Gaylord Mgt. Unit

Report 9 - Nonforested Stands

Compartment: 188 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
24	622 - Lowland Shrub	5.4	No	Unspecified	Thick tag alder, some red maple, and black ash. A little spruce mixed in.