



Report 1 – Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 166

Entry Year 2015

Acreage: 1,336

County Kalkaska

Management Area: Williamsburg Moraine

Revision Date: 04/19/2013

Stand Examiner: Donna Hagan

Legal Description:

T27N, R8W, Sec. 4 & 5. T28N, R8W, S1/2 of Sec. 32 & 34.

Identified Planning Goals:

This compartment falls within the Williamsburg Moraine Management Area and is located just east of Traverse City, near Williamsburg and Kalkaska, in Grand Traverse and Kalkaska counties and contains approximately 19,015 acres of state forest. Timber management objectives for this MA for the next 10 years include improving the age class balance of aspen, regenerating oak and the continuation of management through selection or restarting harvests of red pine and upland hardwood communities. Wildlife habitat management objectives include increasing the structural complexity of upland hardwood communities for forest interior species, perpetuating early-successional communities for young forest-dependent species, hunting and other wildlife-related recreation opportunities, maintaining soft and hard mast sources including oak. Expected trends within the next decade are increased recreational pressure, especially on established trails, increased oil and gas development, introduced pests and diseases, especially beech bark disease and emerald ash borer, an increased need to regenerate oak and red pine and the decreased dominance of pure oak types to mixed oak/pine types.

Soil and topography:

Kalkaska, Rubicon and Island Lake sandy soils. The terrain is steep to rolling hills, anywhere between 6-18% slope.

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

Mostly block ownership. Some private ownership and development to the north along M-72.

Unique, Natural Features:

Species of concern within compartment.

Archeological, Historical, and Cultural Features:

Some old homestead areas.

Special Management Designations or Considerations:

Retain old orchards which are found on the many old abandoned farmsteads.

Watershed and Fisheries Considerations:

No water within compartment.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured glacial till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater has no economic use. The nearest gravel pit is just to the north and potential is considered excellent. The Compartment lies north of the prolific Guelph (Niagaran) reef trend. Several dry hole wells were drilled in the Compartment. Most of the State minerals are currently leased for oil and gas for either the Antrim Shale or Collingwood Formation.

Vehicle Access:

Vehicle access is good with some two-track roads having erosion problems due to the steep terrain.

Survey Needs:

Recreational Facilities and Opportunities:

There are no developed recreation facilities within this compartment.

Fire Protection:

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: 166
 T27N R08W
 Sections 4, 5
 T28N R08W
 Sections 32, 33
 County: Kalkaska
 Unit: Traverse City
 YOE: 2015
 Acres: 1,337 GIS Calculated
 Examiner: Donna Hagan
 Map Revised: 05/28/2013
 Map Phase: Web Post

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

Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Pipeline
- Powerline
- Stream
- Intermittent Stream
- Lakes and Rivers

Treatments

- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)

Forest Stands

Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 612 - Lowland Coniferous Forest

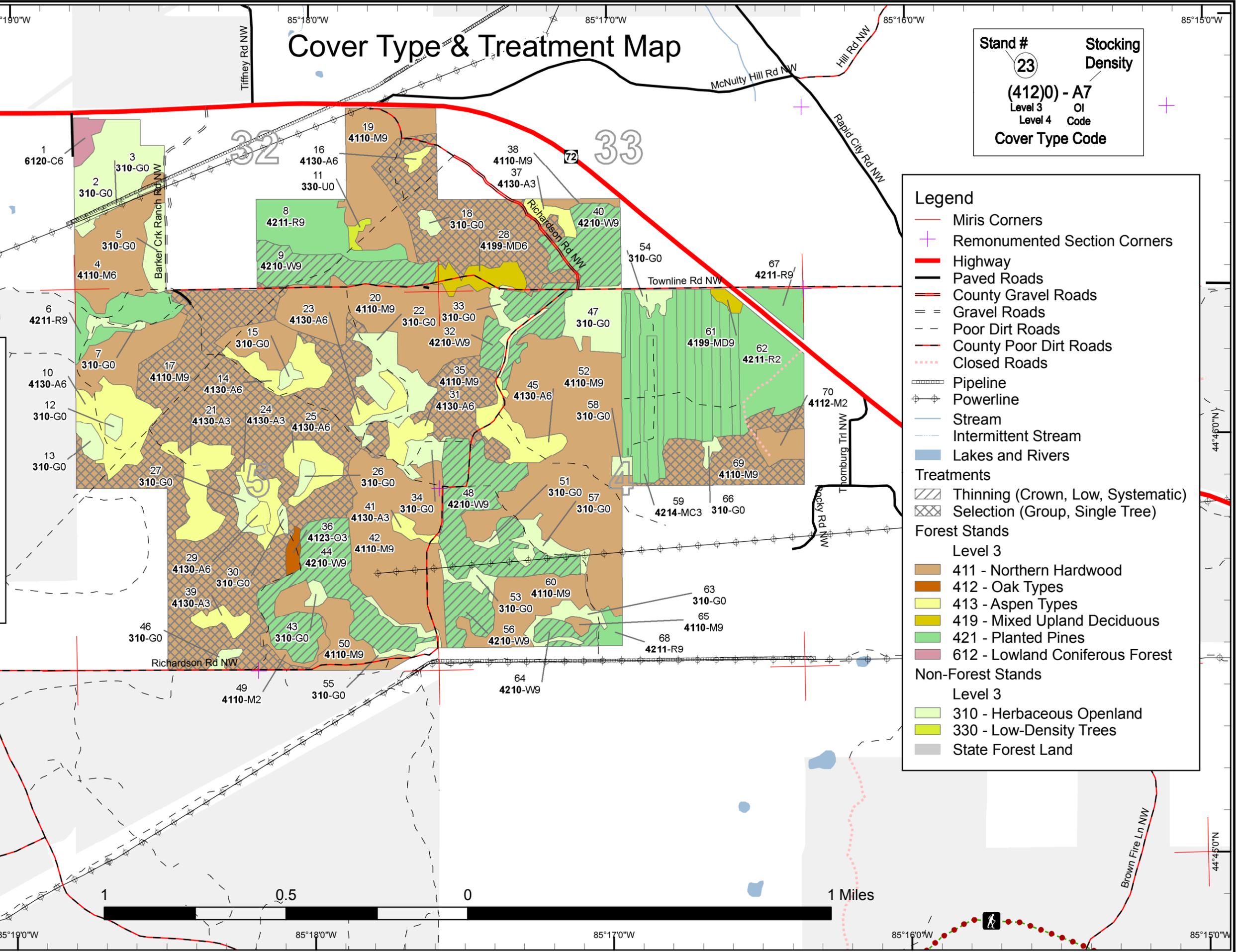
Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- State Forest Land

32 33
 5 4

N



Stand Boundary Map

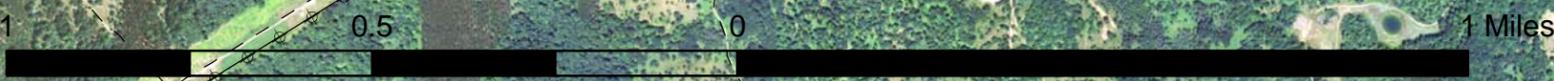
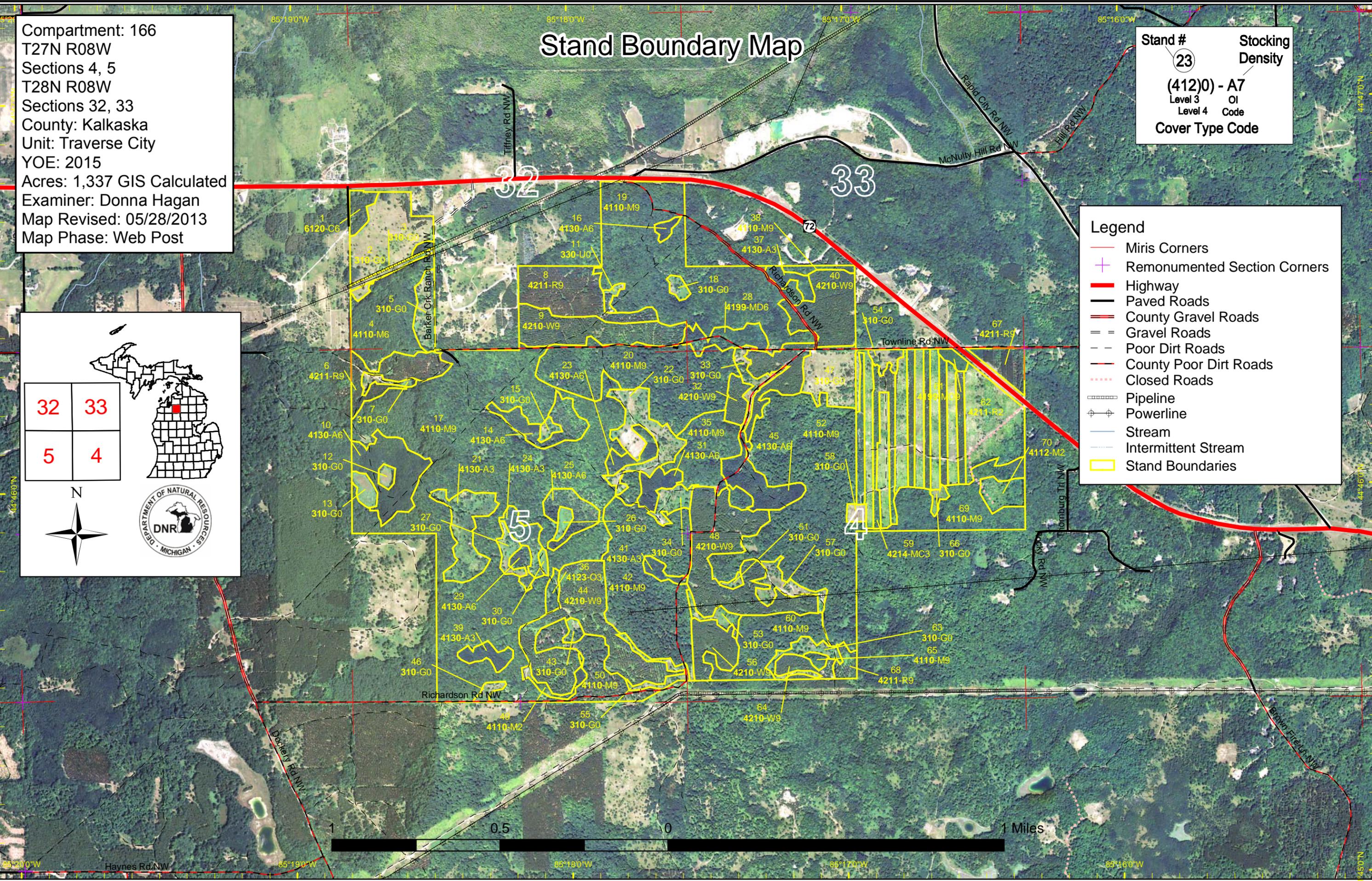
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 T27N R08W
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- Legend**
- Miris Corners
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 - Highway
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Closed Roads
 - Pipeline
 - Powerline
 - Stream
 - Intermittent Stream
 - Stand Boundaries

32	33
5	4

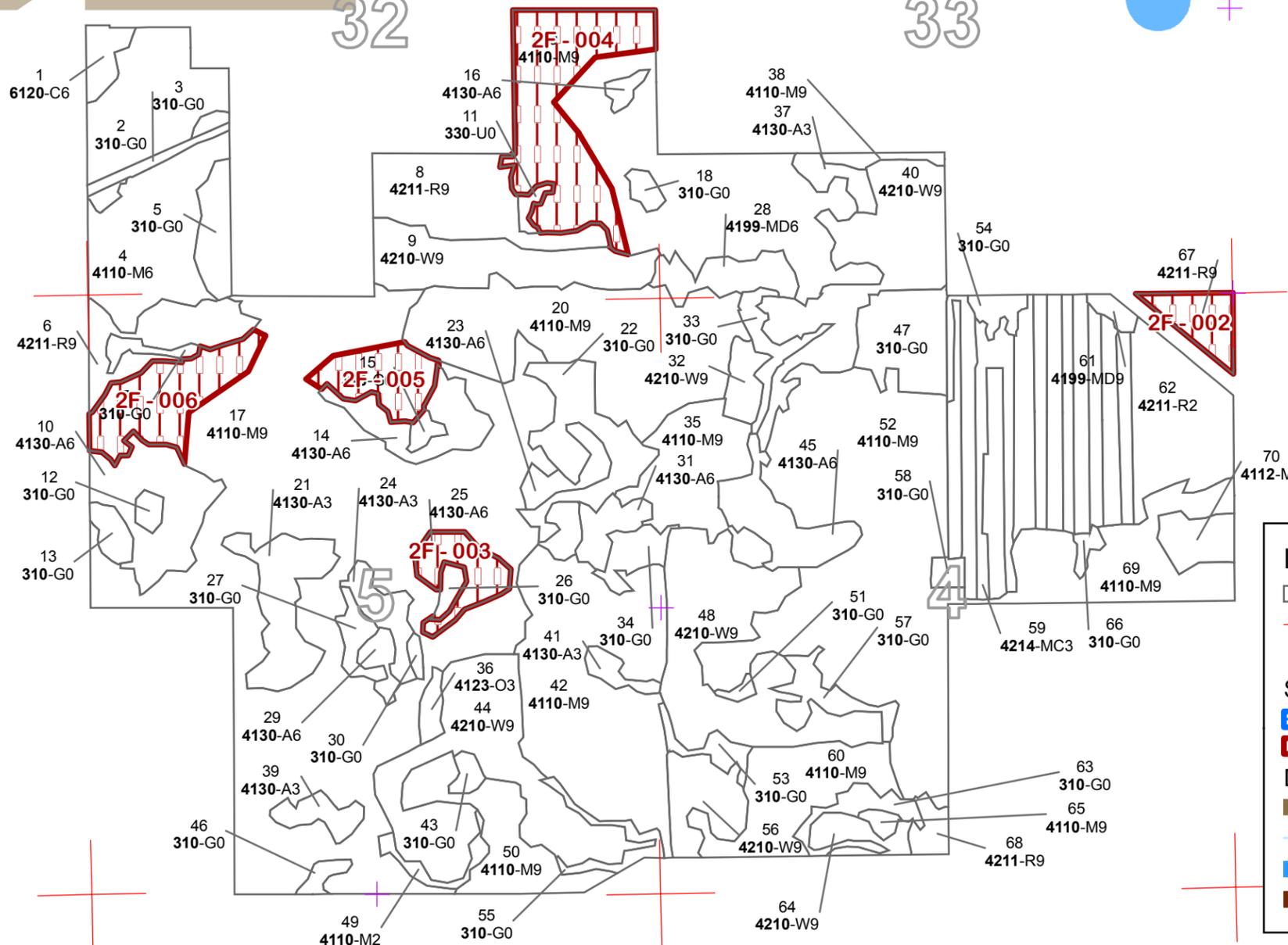
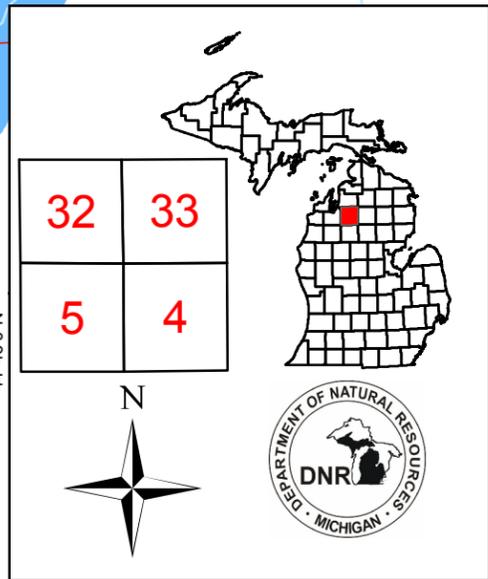
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Special Conservation Areas & Site Conditions Map

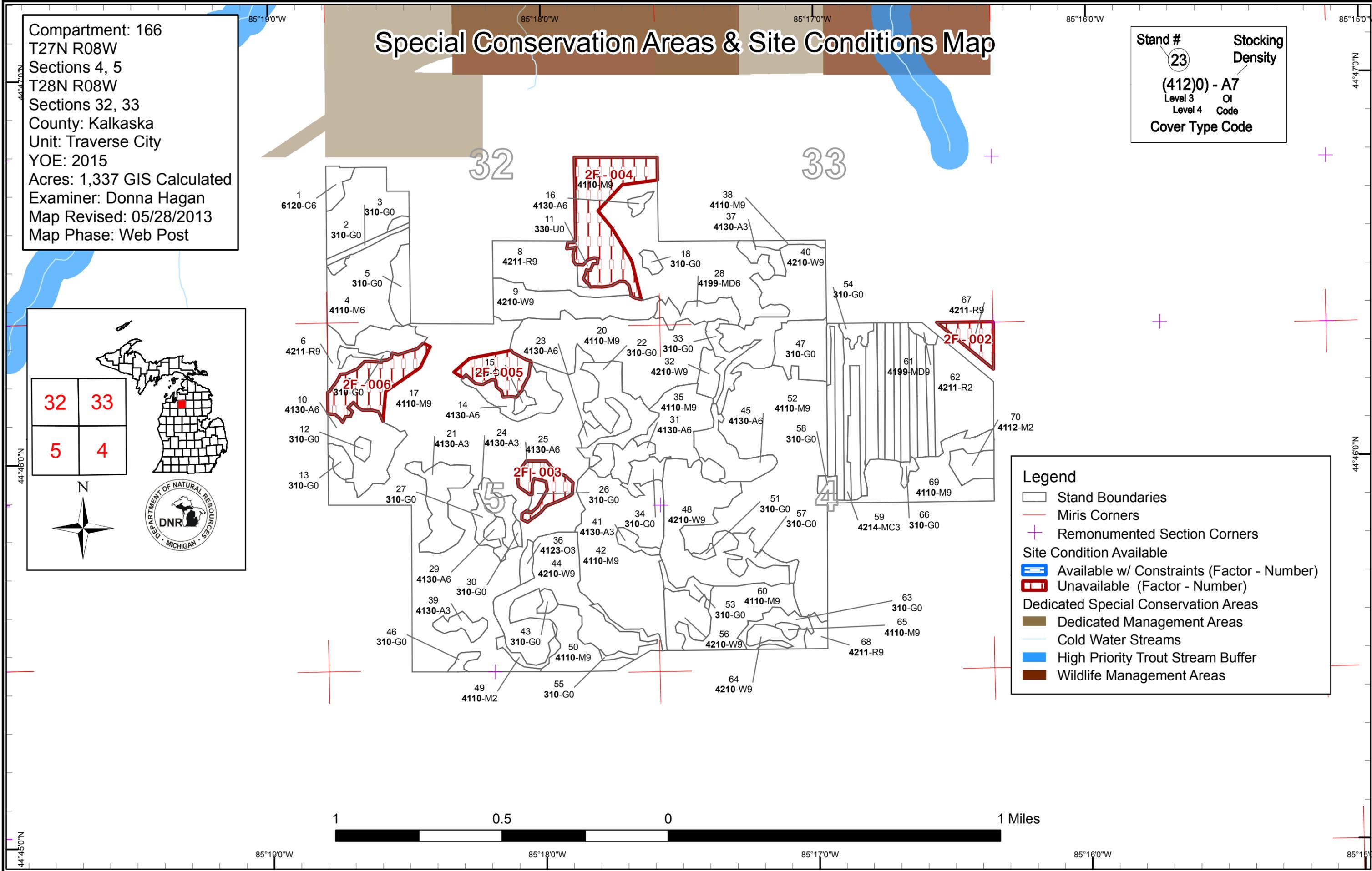
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 T27N R08W
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 Map Revised: 05/28/2013
 Map Phase: Web Post

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



Legend

- Stand Boundaries
- Miris Corners
- Remonumented Section Corners
- Site Condition Available**
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Dedicated Special Conservation Areas**
- Dedicated Management Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas



Report 2 – 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	17	11	19	38	14	9	0	0	0	0	0	0	0	0	107
Cedar	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
Herbaceous Openland	135	0	0	0	0	0	0	0	0	0	0	0	0	0	135
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	9	0	0	2	0	0	0	0	0	0	0	11
Northern Hardwood	7	3	0	0	0	0	0	0	0	0	0	0	0	727	737
Oak	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Planted Mixed Pines	0	39	0	0	0	0	0	0	0	0	0	0	0	0	39
Red Pine	75	0	0	0	0	44	8	0	0	0	0	0	0	0	127
White Pine	0	0	0	0	0	171	0	0	0	0	0	0	0	0	171
Total	235	53	22	47	14	225	10	0	5	0	0	0	0	727	1337



Report 3 – Proposed Treatment Summaries

Traverse City Mgt. Unit
Year of Entry 2015

Compartment 166
Total Compartment Acres: 1337

Acres by Treatment Type

Commercial Harvest - 509 Tree Planting - 0 Other - 0
Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Northern Hardwood	0	338	0	0	0	0	338
Planted Pines	0	0	0	0	171	0	171
Total	0	338	0	0	171	0	509



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9 61166009-Cut	25.0	42100 - Planted White Pine	High Density Log	52	111-140	Harvest	Crown Thinning	42101 - Planted White Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Thin heavy, leave 50-60 ft2 residual, to convert back to hardwood.

Specs:

Other Comments: Stand has medium to heavy hardwood understory. Stand is heavily weevilled.

Next Steps:

Proposed Start Date: 10/01/2014

17 61166017-Cut	222.9	4110 - Sugar Maple Association	High Density Log	60	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Single tree harvest stand down to approximately 70-90 BA.

Specs:

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2014

19 61166019-Cut	60.2	4110 - Sugar Maple Association	High Density Log	60	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Single tree harvest stand down to approximately 70-90 BA.

Specs:

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2014

32 61166032-Cut	5.1	42100 - Planted White Pine	High Density Log	51	141-170	Harvest	Crown Thinning	42101 - Planted White Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Thin heavy, leave 50-60 ft2 residual, to convert back to hardwood.

Specs:

Other Comments: Stand has medium to heavy hardwood understory. Stand is heavily weevilled.

Next Steps:

Proposed Start Date: 10/01/2014

35 61166035-Cut	23.8	4110 - Sugar Maple Association	High Density Log	60	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Single tree harvest stand down to approximately 70-90 BA.

Specs:

Other Comments:

Next Steps:

Proposed Start Date: 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
40 61166040-Cut	37.2	42100 - Planted White Pine	High Density Log	51	141-170	Harvest	Crown Thinning	42201 - Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Thin heavy, leave 50-60 ft2 residual, to convert back to hardwood.

Specs:

Other Comments: Stand has medium to heavy hardwood understory. Stand is heavily weevilled.

Next Steps:

Proposed Start Date: 10/01/2014

Proposed Start Date: 10/01/2014

44 61166044-Cut	43.1	42100 - Planted White Pine	High Density Log	52	111-140	Harvest	Crown Thinning	42201 - Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Thin heavy, leave 50-60 ft2 residual, to convert back to hardwood.

Specs:

Other Comments: Stand has medium to heavy hardwood understory. Stand is heavily weevilled.

Next Steps:

Proposed Start Date: 10/01/2014

Proposed Start Date: 10/01/2014

48 61166048-Cut	43.7	42100 - Planted White Pine	High Density Log	51	141-170	Harvest	Crown Thinning	42201 - Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Thin heavy, leave 50-60 ft2 residual, to convert back to hardwood.

Specs:

Other Comments: Stand has medium to heavy hardwood understory. Stand is heavily weevilled.

Next Steps:

Proposed Start Date: 10/01/2014

Proposed Start Date: 10/01/2014

56 61166056-Cut	11.7	42100 - Planted White Pine	High Density Log	51	200+	Harvest	Crown Thinning	42101 - Planted White Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Thin heavy, leave 50-60 ft2 residual, to convert back to hardwood.

Specs:

Other Comments: Stand has medium to heavy hardwood understory. Stand is heavily weevilled.

Next Steps:

Proposed Start Date: 10/01/2014

Proposed Start Date: 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
64 61166064-Cut	5.5	42100 - Planted White Pine	High Density Log	51	171-200	Harvest	Systematic Thinning	42100 - Planted White Pine	Cmpt. Review Proposal

Prescription Depending on the spacing, row thin stand.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2014

69 61166069-Cut	30.9	4110 - Sugar Maple Association	High Density Log	60	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Single tree harvest stand down to approximately 70-90 BA.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 509.1**



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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!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

**Total Treatment
Acreage Proposed: 0**

**Report 6 – Out of YOE – Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2015



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28218	5.9	Unspecified				Harvest	Other - Specify in Comments	Unspecified	Cmpt. Review Proposal

Prescription Specs:

Other Comments:

Next Steps:

Proposed Start Date:

28219	7.2	Unspecified				Harvest	Other - Specify in Comments	Unspecified	Cmpt. Review Proposal - Incomplete
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Prescription Specs:

Other Comments:

Next Steps:

Proposed Start Date:

61043_OutOfY OE-Cut	2.1					Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal - Incomplete
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Prescription Specs: retain some pine and oak for mast and seed production, Follow WLD guidance for CWD creation. Harvest all stems that are not retained.

Other Comments: New stand should have mix of oak, pine, aspen and maple.

Next Steps:

Proposed Start Date: 09/01/2009

**Total Treatment
Acreage Proposed: 15.3**

Report 7 – Site Conditions

Traverse City Mgt. Unit

Donna Hagan : Examiner

Compartment 166

Year of Entry 2015

Availability for Management

Availability for Management			Dominant Site Conditions		
Total Acres	Acres Available	Acres Not Available		No	2F
107	98	9	Aspen	98	9
5	5		Cedar	5	
11	11		Mixed Upland Deciduous	11	
737	667	70	Northern Hardwood	667	70
3	3		Oak	3	
39	39		Planted Mixed Pines	39	
127	119	8	Red Pine	119	8
171	171		White Pine	171	
1,200	1,114	87	Total Forested Acres	1,114	87
	93%	7%	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	2F: Too steep	8				
Comments:							
003	Not Available	2F: Too steep	9				
Comments:							
004	Not Available	2F: Too steep	37				
Comments:							
005	Not Available	2F: Too steep	12				
Comments:							

Report 7 – Site Conditions

Traverse City Mgt. Unit

Donna Hagan : Examiner

Compartment 166

Year of Entry 2015

006	Not Available	2F: Too steep	20
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Comments:



Report 8 – 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
Comments				



Report 9 – 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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	High Density Pole	4.7	80		
4	4110 - Sugar Maple Association	High Density Pole	32.6	Uneven Age	81-110	
6	42110 - Planted Red Pine	High Density Log	15.4	51	111-140	3rd row thinned with adjacent compartment in 2007. Sale #077-05.
8	42110 - Planted Red Pine	High Density Log	25.3	52	141-170	Thinned in 2002. Sale #53-99.
9	42100 - Planted White Pine	High Density Log	25.0	52	111-140	Thinned in 2002. Sale #53-99.
10	4130 - Aspen	High Density Pole	20.7	36		
14	4130 - Aspen	High Density Pole	12.0	35		
16	4130 - Aspen	High Density Pole	1.8	39		
17	4110 - Sugar Maple Association	High Density Log	255.1	Uneven Age	111-140	Aspen clone NW part of stand.
19	4110 - Sugar Maple Association	High Density Log	97.5	Uneven Age	111-140	
20	4110 - Sugar Maple Association	High Density Log	61.4	Uneven Age	51-80	Thinned in 2001. Sale #58-99.
21	4130 - Aspen	High Density Sapling	16.6	2		
23	4130 - Aspen	High Density Pole	5.4	22		Cut in 1990. Sale #12-89. Small finger of a hardwood on north tip.
24	4130 - Aspen	High Density Sapling	6.5	12		Sale #44-99
25	4130 - Aspen	High Density Pole	9.4	55		In a hole. Too steep to cut.
28	4199 - Other Mixed Upland Deciduous	High Density Pole	9.4	37		
29	4130 - Aspen	High Density Pole	3.2	37		
31	4130 - Aspen	High Density Pole	5.9	22		Sale #12-89

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Traverse City Mgt. Unit

Report 10 – Forested Stands

Compartment: 166
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	42100 - Planted White Pine	High Density Log	5.1	51	141-170	
35	4110 - Sugar Maple Association	High Density Log	23.8	Uneven Age	111-140	
36	4123 - Red Oak	High Density Sapling	2.6	22		
37	4130 - Aspen	High Density Sapling	4.3	11		Sale #44-99
38	4110 - Sugar Maple Association	High Density Log	2.5	Uneven Age	111-140	
39	4130 - Aspen	High Density Sapling	4.8	22		Sale #12-89
40	42100 - Planted White Pine	High Density Log	37.2	51	141-170	
41	4130 - Aspen	High Density Sapling	2.9	22		
42	4110 - Sugar Maple Association	High Density Log	65.2	Uneven Age	81-110	Thinned in 2010. Sale #030-09.
44	42100 - Planted White Pine	High Density Log	43.1	52	111-140	First thinning in 2009. Sale #076-05.
45	4130 - Aspen	High Density Pole	13.6	42		
48	42100 - Planted White Pine	High Density Log	43.7	51	141-170	
49	4110 - Sugar Maple Association	Medium Density	3.2	10		Old U type starting to fill in.
50	4110 - Sugar Maple Association	High Density Log	19.6	Uneven Age	81-110	Thinned in 2011. Sale #030-09.
52	4110 - Sugar Maple Association	High Density Log	112.7	Uneven Age	81-110	Thinned in 2009. Sale #001-05.
56	42100 - Planted White Pine	High Density Log	11.7	51	200+	Very hilly terrain. A lot of poor form trees. Row thinned 20 years ago. No decking in opening in SW part of stand.
59	42140 - Planted Mixed Pine	High Density Sapling	38.8	18		Red pine was planted in 1994. Jack pine seeded in.
60	4110 - Sugar Maple Association	High Density Log	24.1	Uneven Age	81-110	Thinned in 2009. Sale #001-05.

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Traverse City Mgt. Unit

Report 10 – Forested Stands

Compartment: 166
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4199 - Other Mixed Upland Deciduous	High Density Log	2.1	60	171-200	Along M-72.
62	42111 - Planted Red Pine, Mixed Deciduous	Medium Density	75.2	4		Planted in 2008 & 2010.
64	42100 - Planted White Pine	High Density Log	5.5	51	171-200	Very hilly terrain.
65	4110 - Sugar Maple Association	High Density Log	1.5	Uneven Age	81-110	
67	42110 - Planted Red Pine	High Density Log	7.7	61	200+	
68	42110 - Planted Red Pine	High Density Log	3.6	51	111-140	Thinned in 2008. Sale #076-05.
69	4110 - Sugar Maple Association	High Density Log	30.9	Uneven Age	81-110	
70	4112 - Maple, Beech, Cherry Association	Medium Density	7.0	5		Red pine was removed in 2007, Sale#18-05. Does not appear to have been replanted.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3102 - Grass	27.5	No	Unspecified	
3	3102 - Grass	2.7	Yes	Unspecified	Electric line.
5	3102 - Grass	7.9	No	Unspecified	
7	3102 - Grass	2.5	No	Unspecified	
11	3301 - Low Density Deciduous Tree	1.6	No	Unspecified	
12	3102 - Grass	1.8	No	Unspecified	
13	3102 - Grass	3.5	No	Unspecified	
15	3102 - Grass	1.7	No	Unspecified	
18	3102 - Grass	2.0	No	Unspecified	
22	3102 - Grass	18.4	No	Unspecified	
26	3103 - Rubus-Fern	2.0	No	Unspecified	
27	3102 - Grass	3.9	No	Unspecified	
30	3103 - Rubus-Fern	1.0	No	Unspecified	
33	3102 - Grass	5.6	No	Unspecified	
34	3102 - Grass	5.4	No	Unspecified	
43	3102 - Grass	1.9	No	Unspecified	
46	3102 - Grass	1.9	No	Unspecified	
47	3102 - Grass	16.1	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
51	3102 - Grass	1.0	No	Unspecified	
53	3102 - Grass	3.8	No	Unspecified	
54	3102 - Grass	3.2	No	Unspecified	Old Homestead.
55	3102 - Grass	4.3	No	Unspecified	
57	3102 - Grass	7.1	No	Unspecified	
58	3102 - Grass	1.9	No	Unspecified	Dry hole well site. Abandon fall 2001.
63	3102 - Grass	5.7	No	Unspecified	
66	3102 - Grass	1.6	No	Unspecified	