



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32080

Entry Year 2016

Acreage: 1078.50470000

County Marquette

Management Area: Dead Horse Moraines

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**Revision Date:** 2014-09-16

**Stand Examiner:** Kevin LaBumbard

**Legal Description:**

T43N, R24W, Sections 19,20,21

**Identified Planning Goals:**

To improve the quality and diversity of State forests and wildlife through proper habitat management, while protecting the riparian values of our wetlands and waters.

**Soil and topography:**

Geologic features include a nearly level glacial drainage way, ground moraines and till plains. Soils range from organic swamps and poorly drained loamy soils to well drained loams. Major soil series include Carbondale, Trenary loams and Kalkaska sands.

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

This compartment is split into 2 blocks; the western ¼ which is actively managed for forest and wildlife purposes, and the eastern ¾ which is primarily managed for Special Conservation Areas (SCA's). Between the 2 blocks and adjacent to the compartment lie corporate lands with additional state land and one private holding to the west.

**Unique Natural Features:**

No Unique Natural Features known.

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

Three-fourths of the compartment stands are designated as SCA's.

**Watershed and Fisheries Considerations:**

Considerable beaver activity is a constant problem along Hamilton Homestead Road.

**Wildlife Habitat Considerations:**

Compartment 80 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

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

Surface sediments consist of peat and muck and an end moraine of medium-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subcrops below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. Gravel pits are located to the south and there may be potential on the upland areas. Abandoned iron mines are located twelve miles to the north. Section 23 was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Vehicle access to the compartment is fair via Hamilton Homestead Road.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

Recreational activity for this area is primarily for ruffed grouse and whitetail deer hunting.

**Fire Protection:**

This compartment has a low risk for fire.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

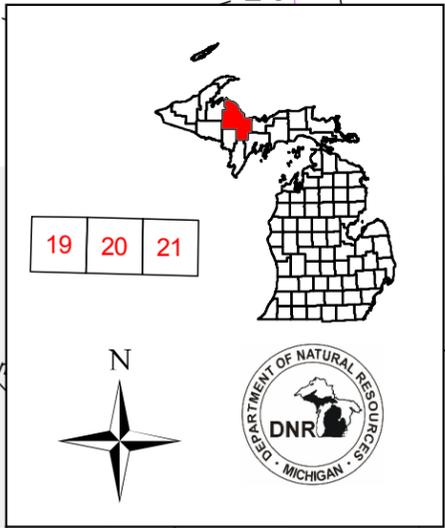
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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: 080  
 T43N R24W Sec. 19,20,21  
 County: Marquette  
 Unit: Gwinn  
 Management Area: Dead Horse Moraines  
 YOE: 2016  
 Acres: 1,079 GIS Calculated  
 Examiner: Kevin Labumbard  
 Map Revised: 09/19/2014  
 Map Phase: Pre-Review



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

### Legend

- Miris Corners
- + Remonumented Section Corners
- Wood Post
- ◆ PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- × Gate
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

### Treatments

- Clearcut (w/Reserves, Patch/Strip)

### Forest Stands

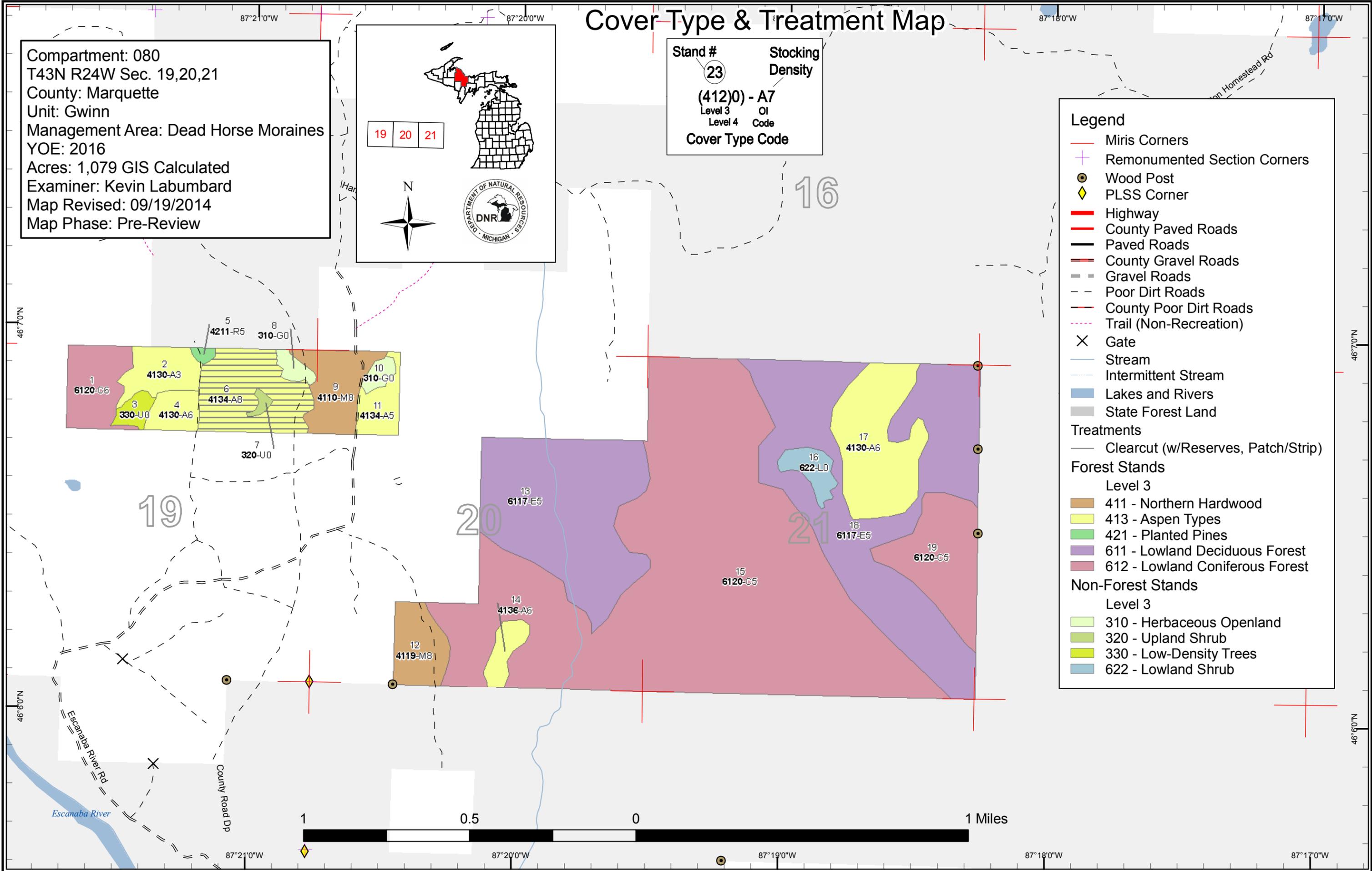
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

### Non-Forest Stands

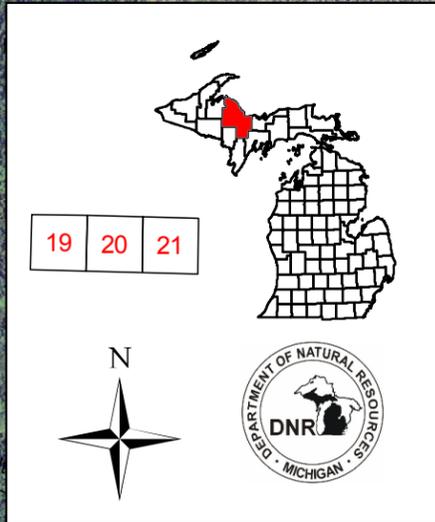
Level 3

- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 622 - Lowland Shrub



# Stand Boundary Map

Compartment: 080  
 T43N R24W Sec. 19,20,21  
 County: Marquette  
 Unit: Gwinn  
 Management Area: Dead Horse Moraines  
 YOE: 2016  
 Acres: 1,079 GIS Calculated  
 Examiner: Kevin Labumbard  
 Map Revised: 08/28/2014  
 Map Phase: Pre-Review



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

### Legend

- Miris Corners
- Remonumented Section Corners
- Wood Post
- PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Gate
- Stream
- Intermittent Stream
- Stand Boundaries

### Forest Stands

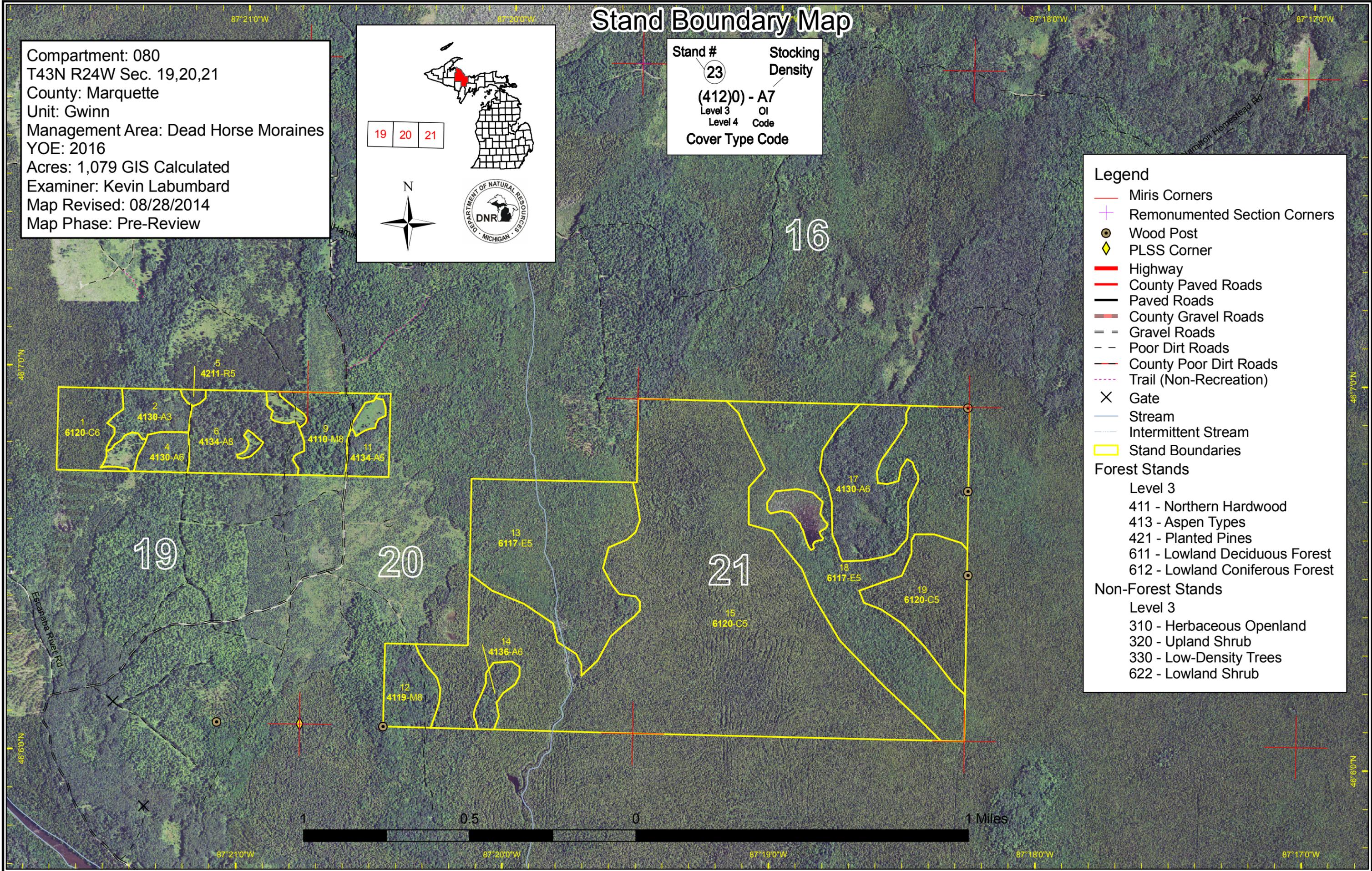
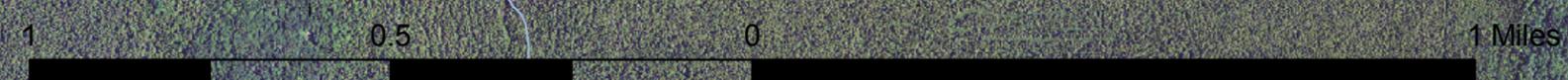
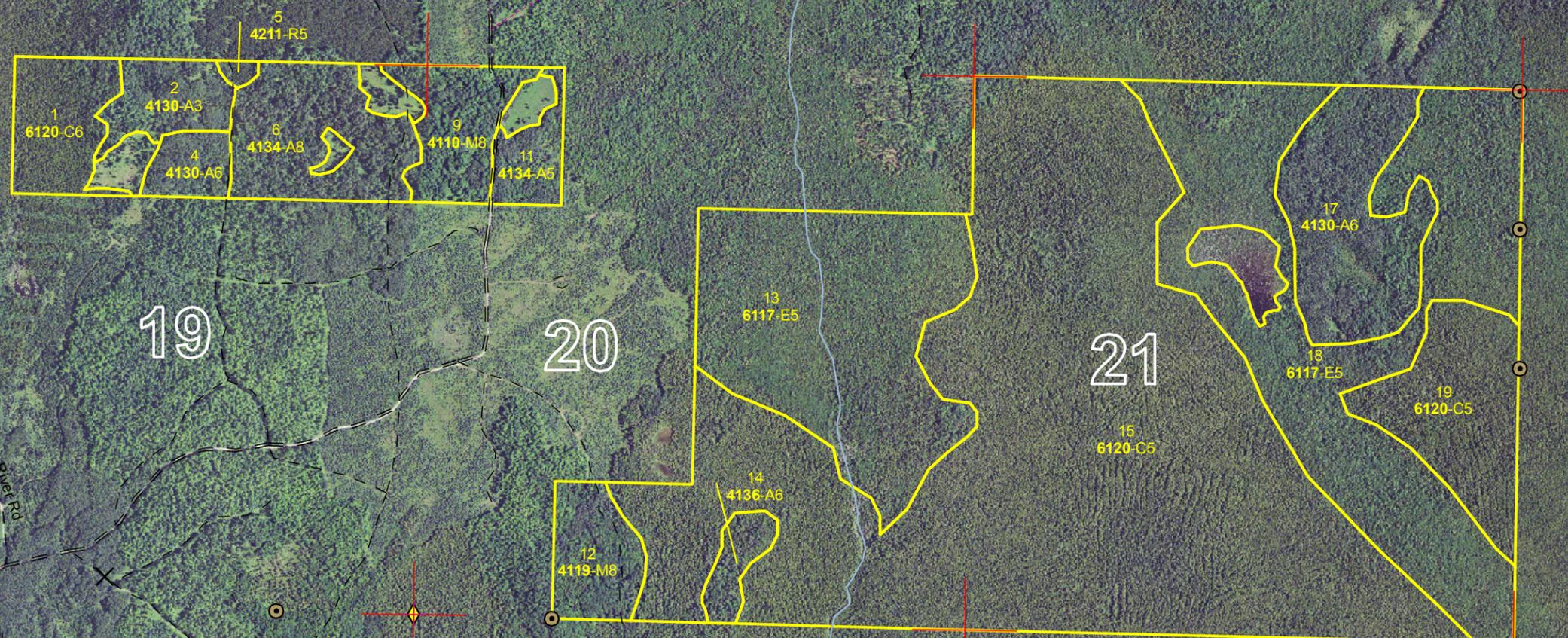
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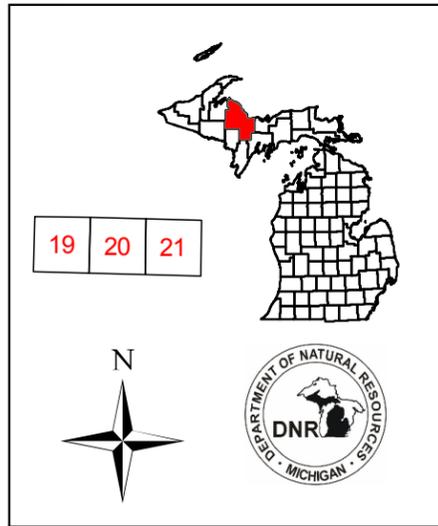
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- 622 - Lowland Shrub



# Special Conservation Areas & Site Conditions Map

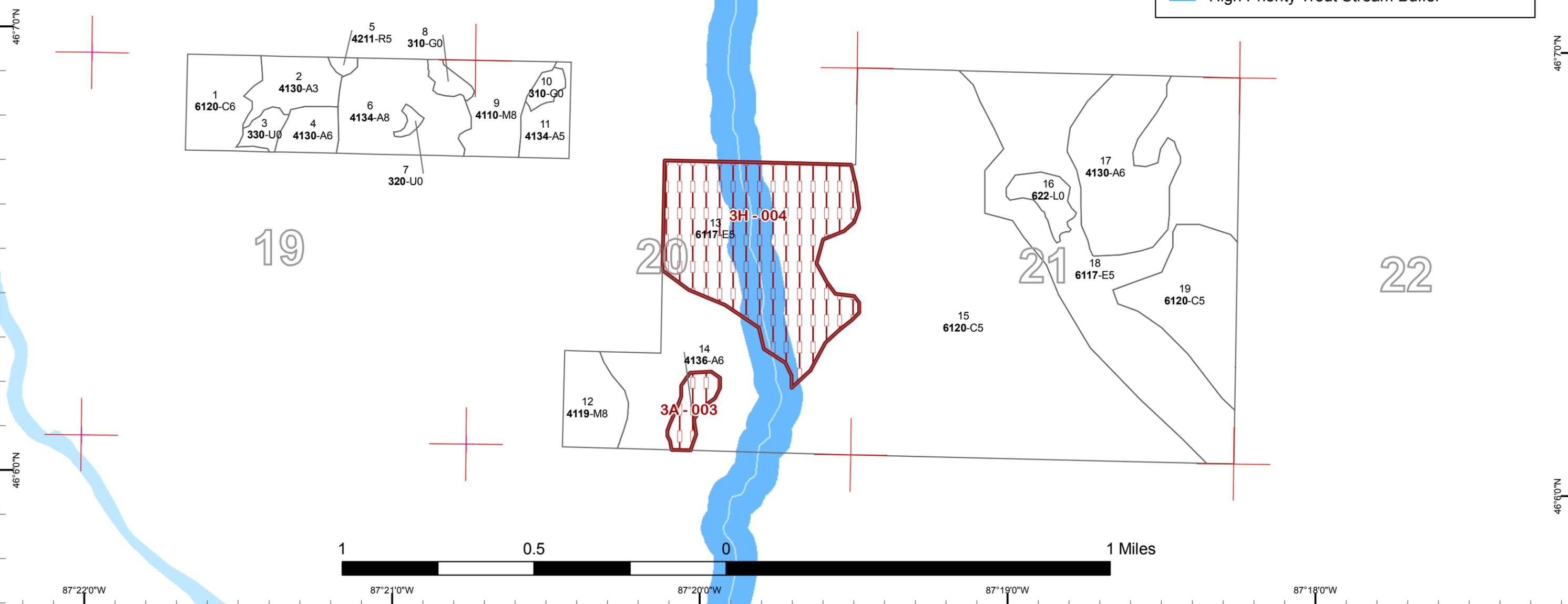
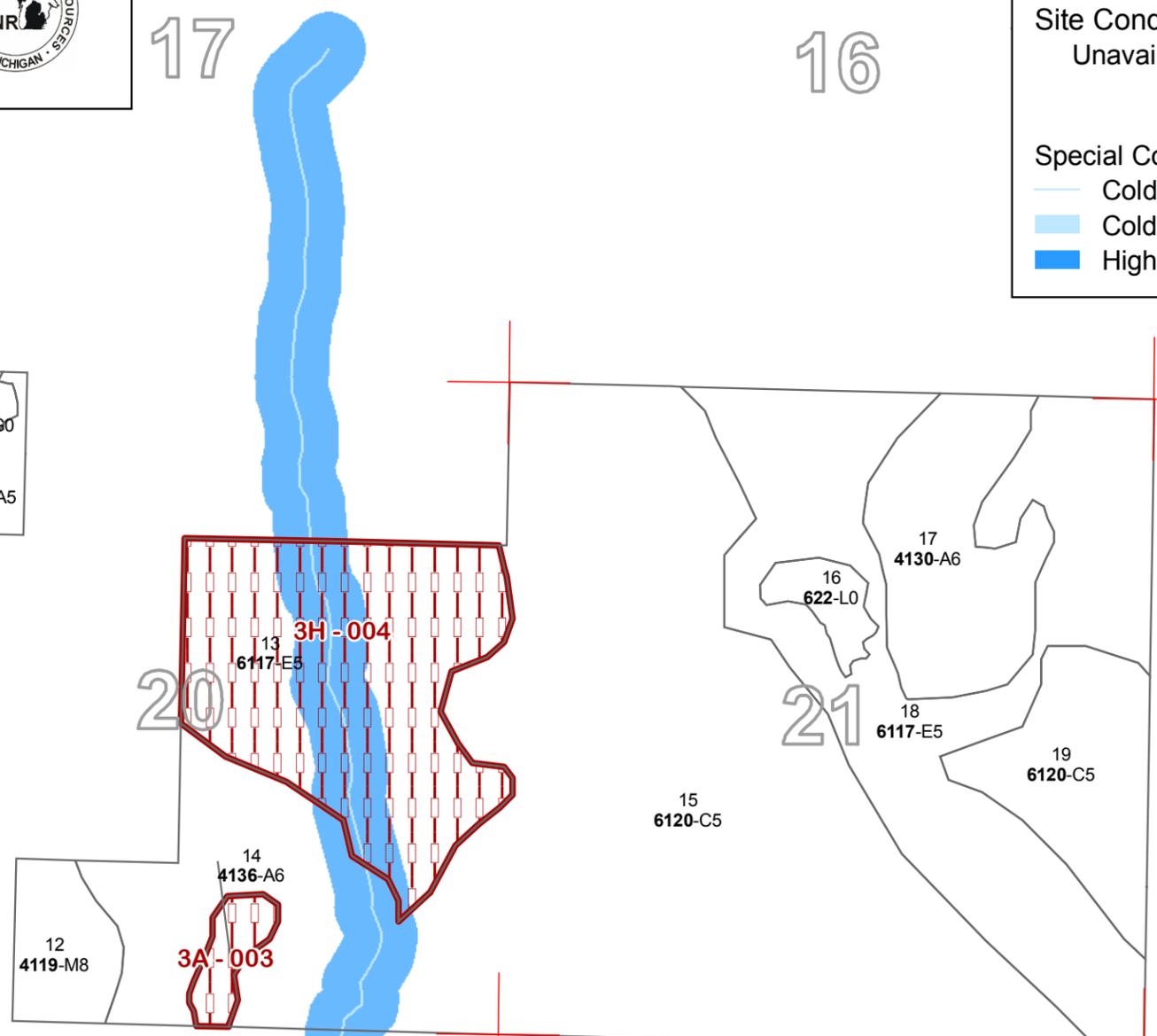
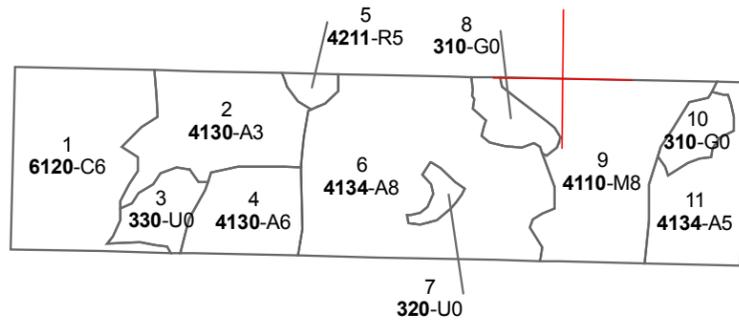
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 Map Revised: 08/28/2014  
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Stand # **23**  
**(412)0 - A7**  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

**Legend**

- ✚ Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Site Condition Available
- ▣ Unavailable (Factor - Number)
- Site Condition Type
- Unavailable Factors
  - 3A: Potential old growth / biodiversity
  - 3H: Deer Wintering Areas
- Special Conservation Areas
  - Cold Water Streams
  - ▬ Cold Water Lakes
  - ▬ High Priority Trout Stream Buffer



# Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 080 Year of Entry 2016

Kevin Labumbard : Examiner



	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	0	19	24	62	0	44	0	0	10	0	0	0	0	0	158
Cedar	0	0	0	0	0	0	0	0	0	0	27	506	0	0	533
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	309	0	0	309
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	0	0	0	0	0	50	0	0	0	0	0	50
Red Pine	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>27</b>	<b>19</b>	<b>26</b>	<b>62</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>50</b>	<b>27</b>	<b>815</b>	<b>0</b>	<b>0</b>	<b>1079</b>



## Report 2 – Proposed Treatment Summaries

**Gwinn Mgt. Unit**  
**Year of Entry 2016**

**Compartment 080**  
**Total Compartment Acres: 1,079**

### Acres by Treatment Type

Commercial Harvest - 44	Tree Planting - 0	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>
<b>Aspen Types</b>	44	0	0	0	0	0	44
<b>Total</b>	44	0	0	0	0	0	44

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6 32080006-Cut	44.2	4134 - Aspen, Spruce/Fir	Medium Density Log	55		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Cut aspen and fir, retain large sugar maple, bass, cherry, elm. Do not cut the 2 acre hardwoods.

Specs:

Other Comments: Sparse mature aspen with fir, white spruce, red maple, and some cherry. Pockets of 3" sugar regen 30' tall. Cut aspen and fir, retain large sugar maple, bass, cherry, elm. Also contains a 2 acre northern hardwood stand in the north.

Next Steps: Monitor regen per Work Instructions.

Proposed

Start Date: 10/01/2015

**Total Treatment  
Acreage Proposed: 44.2**



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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

Gwinn Mgt. Unit

Kevin Labumbard : Examiner

Compartment 080

Year of Entry 2016

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	3H	3A
	Available	Not Available				
158	146	12	<b>Aspen</b>	146	3	10
533	531	2	<b>Cedar</b>	531	2	
309	19	289	<b>Lowland Deciduous</b>	19	289	
50	50		<b>Northern Hardwood</b>	50		
2	2		<b>Red Pine</b>	2		
1,051	748	303	Total Forested Acres	748	294	10
	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	3A: Potential old growth / biodiversity	10				
<b>Comments:</b> SCA- Potential Type 2 old growth.							
004	Not Available	3H: Deer Wintering Areas	127				
<b>Comments:</b>							
005	Not Available	3H: Deer Wintering Areas	177	2G: Too wet (sensitive soils, does not include access issues)			
<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
<b>Comments</b>				



**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	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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

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## Gwinn Mgt. Unit

## Report 8 – Forested Stands

Compartment: 080  
Year of Entry: 2016

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	High Density Pole	27.0	105		Deer yard.
2	4130 - Aspen	High Density Sapling	18.8	16		Cut under contract # 50-98-02. Well stocked aspen. Also contains a 3 acre hardwood stand of approximately 80 ba.
4	4130 - Aspen	High Density Pole	11.0	28		Nice aspen, hardwood ground. Tons of leeks.
5	42110 - Planted Red Pine	Medium Density Pole	1.7	25	81-110	Southern tip of stand 13 cmpt 79. Planted in 1986. Short 1 stick 7" dbh poles.
6	4134 - Aspen, Spruce/Fir	Medium Density Log	44.2	55		Sparse mature aspen with fir, white spruce, red maple, and some cherry. Pockets of 3" sugar regen 30' tall. Cut aspen and fir, retain large sugar maple, bass, cherry, elm. Also contains a 2 acre northern hardwood stand in the north.
9	4110 - Sugar Maple Association	Medium Density Log	26.7	99	51-80	Good hardwood ground with leeks, leatherwood, etc. No maple regen despite low stocking levels. Heavy ironwood regen.
11	4134 - Aspen, Spruce/Fir	Medium Density Pole	13.2	28		
12	4119 - Mixed Northern Hardwoods	Medium Density Log	23.0	98	81-110	
13	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	127.2	114		Remote black ash and cedar stand.
14	4136 - Aspen, Mixed Conifer	High Density Pole	9.6	81		Too wet to access. Former POG. Last entry data - aspen 40 ba, red maple 10, balsam fir 20, cedar 10, hemlock 10. Avg dbh 8", understory F2.
15	6120 - Lowland Cedar	Medium Density Pole	456.0	114		Deer yard. Small cedar with associated species.
17	4130 - Aspen	High Density Pole	61.5	38		Last inventory the stand had 40 ba aspen, 10 ba red maple with average dbh of 5 inches.
18	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	181.6	114		Remote black ash and cedar stand.
19	6120 - Lowland Cedar	Medium Density Pole	50.4	114		Deer yard. Small cedar and associated species.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	330 - Low-Density Trees	5.7	No	Unspecified	
7	3205 - Mixed Upland Shrub	1.8	No	Unspecified	
8	310 - Herbaceous Openland	4.5	No	Unspecified	Grass opening
10	310 - Herbaceous Openland	4.2	No	Unspecified	Grass opening.
16	622 - Lowland Shrub	10.3	No	Unspecified	