



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 21

Entry Year 2015

Acreage: 2,082

County Marquette

Management Area: Cyr Swamp

Revision Date: 08/06/2013

Stand Examiner: Theresa Sysol

Legal Description:

T44N R25W Section(s) 11 - 14

Identified Planning Goals:

To maintain the health and sustainability of the forest, while providing for wildlife, fisheries, environmental and recreational needs.

Soil and topography:

Level swamps or bogs with islands of upland, some reaching to 50 foot above the bog. Mostly Carbondale and Tawas soils. Other soil types are Greenwood and Dawson, Rubicon sand, Kalkaska sand, Tawas-Deford mucks, Keweenaw-Kalkaska complex, Croswell-Deford complex, AuGres-Deford complex.

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

Large gated private parcels to the north and east. Very little recreational use.

Unique Natural Features:

No concerns listed with MNFI. Potential for bog butterflies and dragonflies in marsh types. Potential for gray wolf.

Archeological, Historical, and Cultural Features:

No concerns identified with HAL. Old iron mines to the north on private lands. Old logging camp sites in area.

Special Management Designations or Considerations:

Cyr Swamp Management Area - very large swamp and bog complexes; poor conifer swamp. Roadless area.

Watershed and Fisheries Considerations:

Lowland bogs generally filter towards the Escanaba River to the west.

Wildlife Habitat Considerations:

Compartment 21 is found within the Cyr Swamp Management Area; which is a Swamp landform in Southeastern Marquette County. The State Forest covers about 9,200 acres and is mostly contiguous. The dominant Natural Communities are poor conifer swamps. Major forest cover types include Mixed Lowland Conifer, Bogs and Treed Bogs. The Cyr Swamp is the largest swamp in WUP on State Forest. The State Forest portion of the swamp is about 9,200 mostly contiguous acres and State Forest makes up the major ownership in this area. The management priority for this area is to maintain and promote the un-fragmented, old forest character nature of this management area. Some of the most significant wildlife management issues in the management area are: early successional forest; coarse woody debris; mature forest; and mast.

The following have been identified as featured species for the Cyr Swamp Management Area: Red-shouldered Hawk, Snowshoe Hare, and white-tailed deer. However, the featured species concept does not preclude the management for other wildlife species within a particular MA, rather it is simply intended to be as a tool to help prioritize or focus habitat management.

For lands purchased with Pittman–Robertson Act or Game and Fish funds, the primary objective of vegetative management must be wildlife restoration.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck. The glacial drift thickness varies between 100 and 200 feet. The Cambrian Trempealeau Formation and Munising Group subcrop below the glacial drift. The Trempealeau could be used for stone. Gravel pits are not located in the area and potential appears to be limited. Abandoned iron mines are located just to the north and most economic iron probably has been removed from this area. This State land has not been previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

None to State land, however there are some ORV trails in use.

Survey Needs:

None

Recreational Facilities and Opportunities:

Due to the remote location, opportunities are limited.

Fire Protection:

Fire response times can be anywhere from 1/2 hour or more, depending on location. Ground suppression efforts would be very difficult, and alternate tactics should be used, due to its location. Control efforts would likely require 2 - 4 hours or more. A fire in 1986 burned most of section 11.

Additional Compartment Information:

Historically logged in the late 1930's - early 50's.

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**

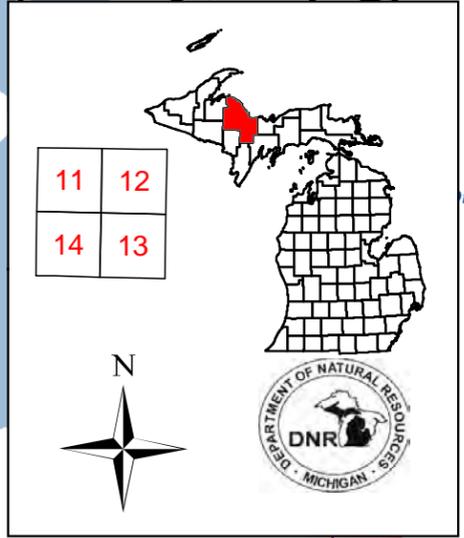
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

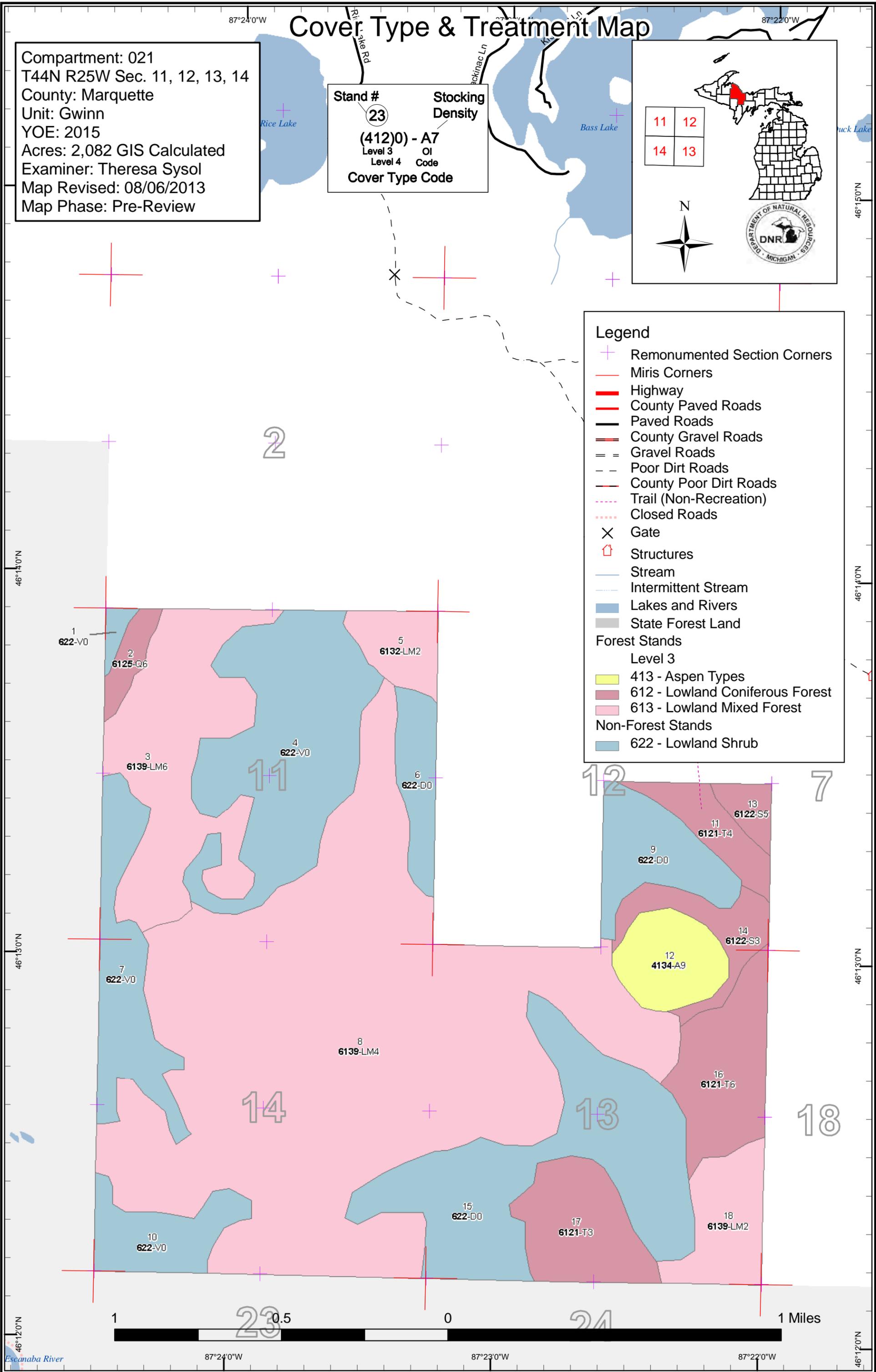
Compartment: 021
 T44N R25W Sec. 11, 12, 13, 14
 County: Marquette
 Unit: Gwinn
 YOY: 2015
 Acres: 2,082 GIS Calculated
 Examiner: Theresa Sysol
 Map Revised: 08/06/2013
 Map Phase: Pre-Review

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



Legend

- + Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- · - · Trail (Non-Recreation)
- · - · Closed Roads
- × Gate
- ⬆ Structure
- Stream
- - - Intermittent Stream
- █ Lakes and Rivers
- █ State Forest Land
- Forest Stands**
- Level 3**
- █ 413 - Aspen Types
- █ 612 - Lowland Coniferous Forest
- █ 613 - Lowland Mixed Forest
- Non-Forest Stands**
- █ 622 - Lowland Shrub



Stand Boundary Map

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

11	12
14	13

N

Legend

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Gate
- Structures
- Stream
- Intermittent Stream
- Stand Boundaries

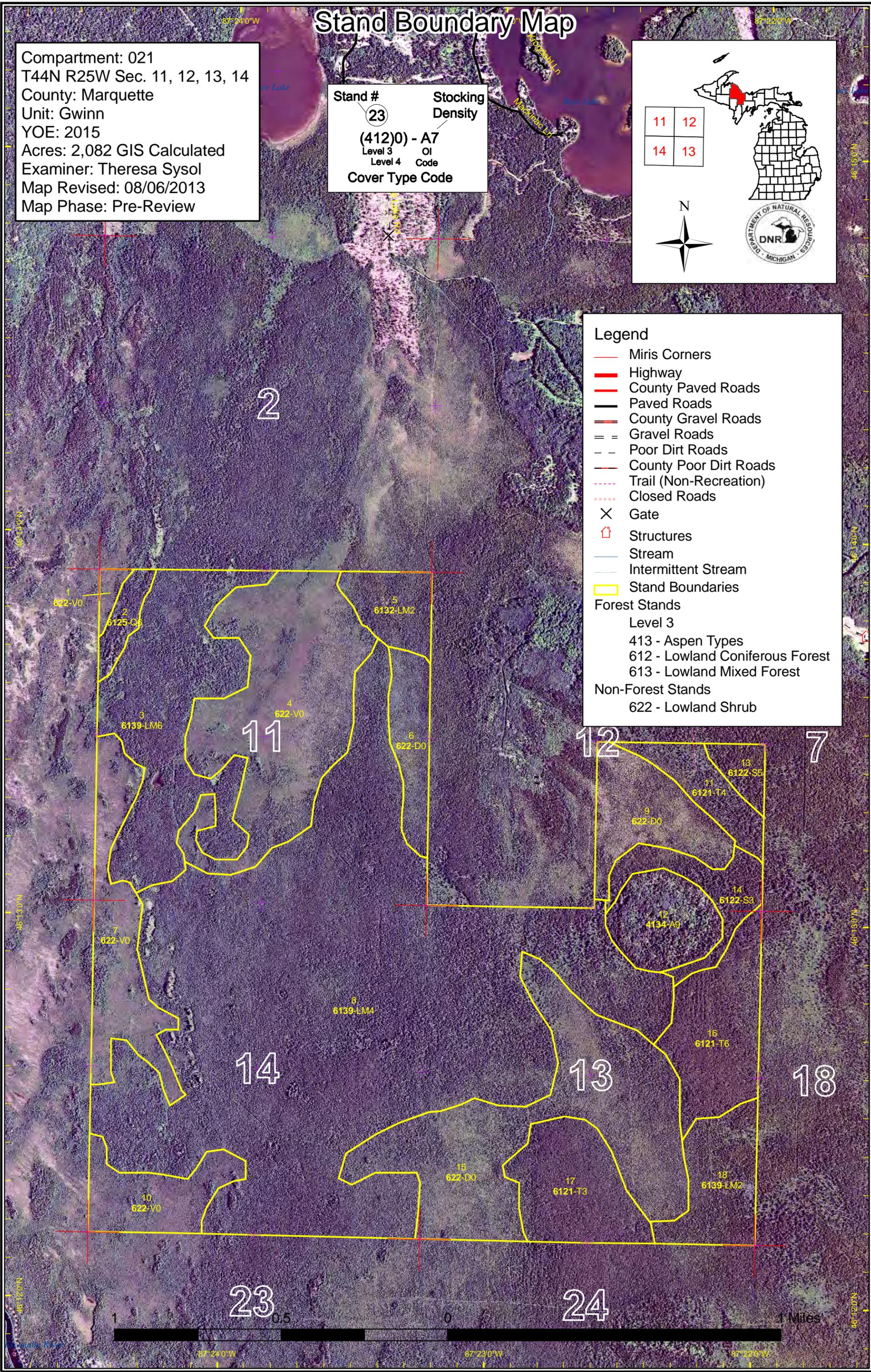
Forest Stands

Level 3

- 413 - Aspen Types
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

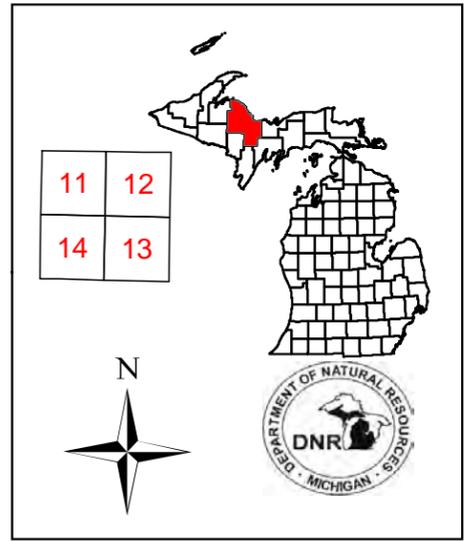
- 622 - Lowland Shrub



Special Conservation Areas & Site Conditions Map

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



Legend

- Miris Corners
- Stand Boundaries
- Site Condition Available
- ▣ Unavailable (Factor - Number)
- Site Condition Type
- Unavailable Factors
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Reviewable SCAs
 - ▣ Proposed SCA
 - ▣ SCA Removal

46°14'0"N

46°13'0"N

46°12'0"N

46°15'0"N

46°14'0"N

46°13'0"N

46°12'0"N

1
622-V0

2
6125-O6

5
6132-LM2

3
6139-LM6

4
622-VD

6
622-D0

7
622-VD

2G-001

Cyr Swamp Management Area

8
6139-LM4

12

7

13
6122-S5

11
6121-T4

9
622-D0

14
6122-S3

2H-002

16
6121-T6

18

10
622-V0

15
622-D0

17
6121-T3

18
6139-LM2

23

24

1

0.5

0

1 Miles

87°24'0"W

87°23'0"W

87°22'0"W

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	0	0	0	0	0	0	0	0	51	0	0	0	0	0	51
Bog	344	0	0	0	0	0	0	0	0	0	0	0	0	0	344
Lowland Conifers	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16
Lowland Mixed Forest	0	0	0	0	0	0	0	1072	0	34	0	0	0	0	1106
Lowland Spruce/Fir	0	0	0	0	0	0	0	54	0	0	0	0	0	0	54
Tamarack	0	0	0	0	0	0	75	115	0	0	0	0	0	0	190
Treed Bog	321	0	0	0	0	0	0	0	0	0	0	0	0	0	321
Total	665	0	0	0	0	0	75	1257	51	34	0	0	0	0	2082



Report 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2015

Compartment 021
Total Compartment Acres: 2,082

Acres by Treatment Type

Commercial Harvest - 0 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
	#Error	#####	#Error	#####	#Error	#####	
Total	0	0	0	0	0	0	0



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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
Comments:

Next
Steps:

Proposed
Start Date: #Type!

**Total Treatment
Acreage Proposed: 0**



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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 5 – Site Conditions

Gwinn Mgt. Unit
Theresa Sysol : Examiner

Compartment 021
Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	
	Available	Not Available		
			2H	2G
51		51	Aspen	51
16		16	Lowland Conifers	16
1106		1106	Lowland Mixed Forest	1,106
54		54	Lowland Spruce/Fir	54
190		190	Tamarack	190
1,417		1,417	Total Forested Acres	51
		100%	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
001	Not Available	2G: Too wet (sensitive soils, does not include access issues)	2,031	4A: No merchantable products (see product standards)	2B: Unknown if access through adjacent landowner(s) is possible		
Comments:							
002	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	51	2B: Unknown if access through adjacent landowner(s) is possible	No Limiting Factor		
Comments: One landowner out of three OK'ed access							

**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
Cyr Swamp Management Area	Habitat Areas or Corridors	Other Habitat Area	SCA	2081.7
Comments				
Large poor conifer swamp complex, which is unique due to it's unfragmented and mostly inaccessible condition. Adjoins State parcels to the south and west with same characteristics.				



Report 7 – 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
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Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 021
Year of Entry: 2015

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	16.1	70		located within Cyr Swamp MA
3	6139 - Mixed Lowland Forest	High Density Pole	173.4	72		Falls within the Cyr Swamp MA. Mix of black spruce, tamarack mainly with some cedar and jack pine.
5	6132 - Mixed Lowland Forest with Cedar	Medium Density	34.0	91		Treed bog
8	6139 - Mixed Lowland Forest	Low Density Pole	840.3	70		
11	6121 - Tamarack	Low Density Pole	33.2	74		Scattered timber with thick tagalder; hummicks. Sphagnum ground cover.
12	4134 - Aspen, Spruce/Fir	High Density Log	51.1	86	51-80	Aspen/maple upland island within Cyr Swamp - lowland edges heavier to S/F. Trace amount of black cherry present, primarily on east side of stand where there is a heavier concentration of low quality red maple. Trace red pine also. Ground cover of club moss, bracken fern and bunchberry noted.
13	6122 - Black Spruce	Medium Density Pole	15.0	74		Larger diameter cedar, sort of in clumps, with black spruce and tamarack.
14	6122 - Black Spruce	High Density Sapling	39.1	74		Spruce bog, with some higher sandy ground, which supports more white pine, larger spruce. Trace amount of paper birch and bigtooth aspen. Ground cover of sphagnum, labrador tea, lichen, bunchberry and snowberry noted.
16	6121 - Tamarack	High Density Pole	81.9	74		Logged in the late 1930's. Mainly tamarack, but stand does contain black spruce. Ground cover of sphagnum noted.
17	6121 - Tamarack	High Density Sapling	74.9	66		Logged sometime in the 1940's. Also contains black spruce.
18	6139 - Mixed Lowland Forest	Medium Density	58.0	72		Contains black spruce, tamarack and cedar.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6225 - Bog	6.4	No	Unspecified	leatherleaf bog
4	6225 - Bog	199.2	No	Unspecified	Leatherleaf bog with some stunted spruce and tamarack located within Cyr Swamp.
6	6224 - Treed Bog	38.3	Yes	Low (NonForested)	Some stunted black spruce, tamarack within leatherleaf bog.
7	6225 - Bog	86.6	No	Unspecified	Some small stunted spruce and tamarack within leatherleaf bog.
9	6224 - Treed Bog	63.9	No	Unspecified	Scattered clumps of tamarack and spruce, which are 2 - 6" dbh and around 20% canopy cover. Trace amount of cedar. Ground cover of leatherleaf, grasses, sphagnum, lab tea.
10	6225 - Bog	52.0	No	Unspecified	Some small stunted spruce and tamarack within leatherleaf bog.
15	6224 - Treed Bog	218.4	No	Unspecified	Denser bog (tamarack, black spruce) with scattered islands of larger timber. Some cedar. Logged sometime in the 1940's - early 50's as old 1954 photos indicate.