



**Newberry Forest Management Unit
Compartment Review Presentation**
Compartment #42098 Entry Year: 2014
Compartment Acreage: 5,253 County: Luce

Revision Date: 9/04/2012

Stand Examiner: Jennifer Burnham

Legal Description: T46N R12W Sections 19, 20, 21, 28, 29, 30, 31, 32 & 33

RMU (if applicable): Fox River Complex

Management Goals: Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan.

Soil and Topography: The area is mainly level swamps with a small portion in upland sand plains, and sand ridges. The main soil types within the compartment are the Carbondale, Lupton, Tawas soils, Dawson, Greenwood, and Loxley soils. All are poorly drained with muck or muck peat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is entirely state owned land. The compartment is entirely bordered by state land on the north and mostly private lands on the east, west and south sides.

Unique, Natural Features: The East Branch of the Fox River, Bev Creek and Deer Creek flow through the compartment.

Archeological, Historical, and Cultural Features: Currently under review

Special Management Designations or Considerations: The East Branch of the Fox River, Bev Creek and Deer Creek are managed under Michigan's Natural Rivers Program.

Watershed and Fisheries Considerations: Fisheries Values: Excellent
Fisheries Concerns: This compartment contains the East Branch Fox River system and is in the NLMMU. There are no planned treatments, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations: Compartment 98 lies in south western Luce county and is in the Seney Sand Lake Plain ecological sub-subsection and is situated in the Fox River Complex Management Area where white-tailed deer, black bear, snowshoe hare, spruce grouse and northern goshawk are designated featured species. The Fox river and numerous creeks run through the bulk of the compartment and are important wildlife travel corridors. The compartment is dominated by mature, diverse cover types including lowland conifer, spruce, mixed deciduous, and lowland deciduous. No treatments are prescribed at this time. The compartment serves a vital purpose for wildlife species requiring large stands of mature cover types such as fisher, american marten and blackburnian warbler, and serves numerous other wildlife species needs for resting and escape cover, travel corridors, nest, den, and roosting sites and food sources. The compartment falls in the Ten Curves deer yard which can support high deer number of deer during stressful winter periods. Wildlife species likely to use the compartment include white-tailed deer, black bear, fisher, marten, bobcat, coyotes, gray wolves, beaver, snowshoe hare and pileated woodpecker.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck and minor coarse-textured glacial till. The glacial drift thickness varies between 100 and 200 feet. The Ordovician Big Hill and Stonington Formations and the Utica Shale subcrop below the glacial drift. The Big Hill and Stonington could be used for stone. A gravel pit is located in Section 33 and potential appears to be good on the uplands. There is no economic oil and gas production in the UP.

Vehicle Access: Other than highway M-28 and the railroad right-of-way that bisect the compartment, vehicle access is very limited. There are two seasonal two-track roads leading from county road 421 that travel into the compartment. The total mileage of these seasonal roads combined is less than one mile.

Survey Needs: None.

Recreational Facilities and Opportunities: Hunting, fishing, wildlife viewing, and camping opportunities exist within the compartment.

Fire Protection: Lowland conifer types with a high water table make up the majority of the stands. Large fires in this compartment are not likely because of the hardwood and mixed conifer/hardwood lowland types. The occasional pine ridges are surrounded by these conifer stands making access very difficult for heavy suppression equipment. The northeast corner has more opportunity for fire potential because of the proximity to the Danaher Plains Area.

Additional Compartment Information:

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

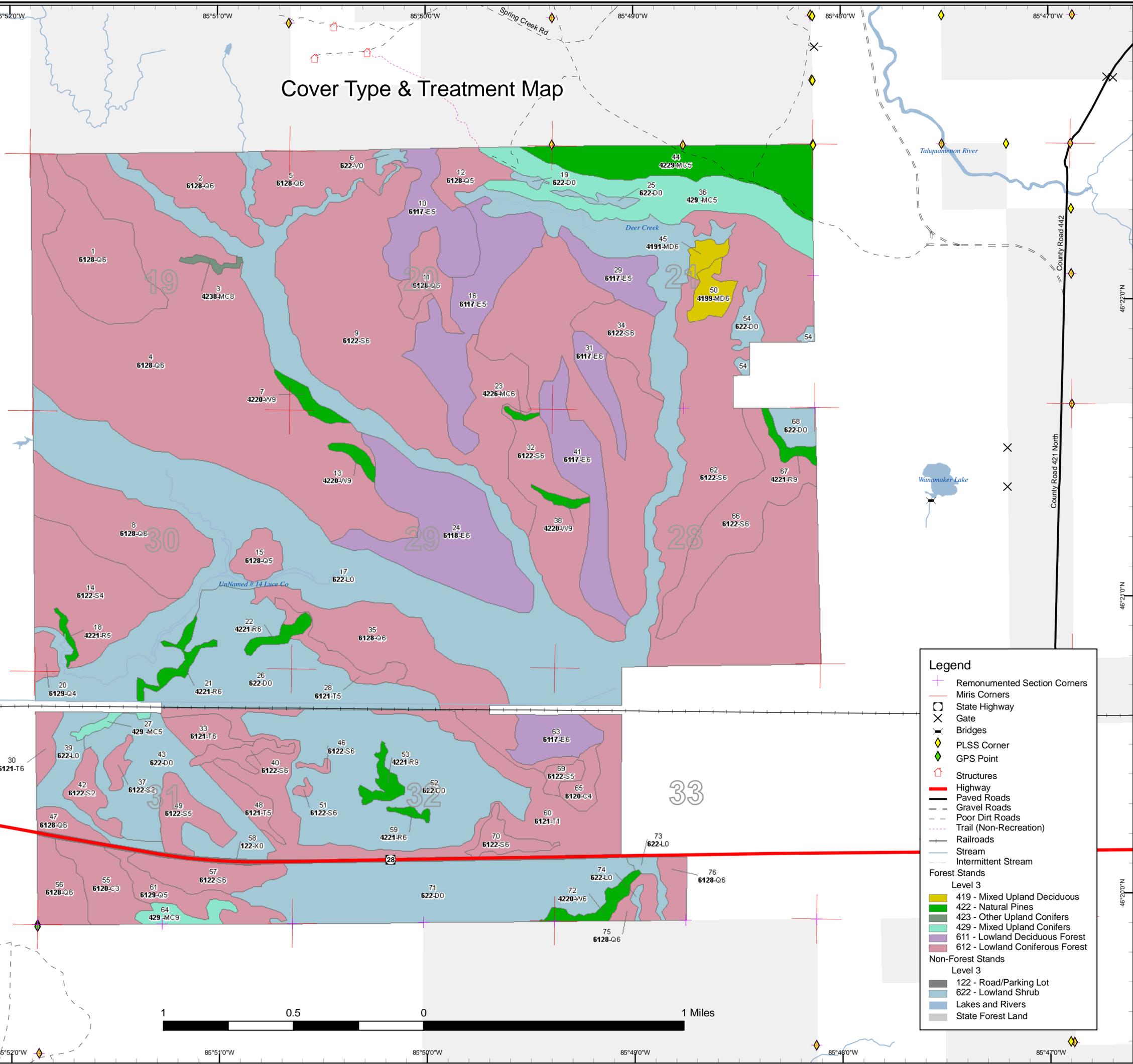
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Cover Type & Treatment Map

Compartment: 098
 T46N R12W Sec. 19-21, 28-33
 County: Luce
 Unit: Newberry
 YOE: 2014
 Acres: 0 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 10/04/2012
 Map Phase: Pre-Review

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

19	20	21
30	29	28
31	32	33



Legend

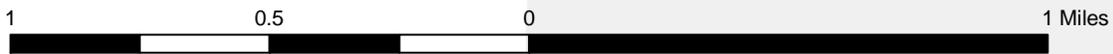
- Remunemented Section Corners
- Miris Corners
- State Highway
- Gate
- Bridges
- PLSS Corner
- GPS Point
- Structures
- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Railroads
- Stream
- Intermittent Stream

Forest Stands

- Level 3
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

- Level 3
- 122 - Road/Parking Lot
- 622 - Lowland Shrub
- Lakes and Rivers
- State Forest Land



Stand Boundary Map

Compartment: 098
 T46N R12W Sec. 19-21, 28-33
 County: Luce
 Unit: Newberry
 YOE: 2014
 Acres: 0 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 10/04/2012
 Map Phase: Pre-Review

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

19	20	21
30	29	28
31	32	33

Legend

- Remonumented Section Corners
- Miris Corners
- State Highway
- Gate
- Bridges
- PLSS Corner
- GPS Point
- Structures
- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Railroads
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

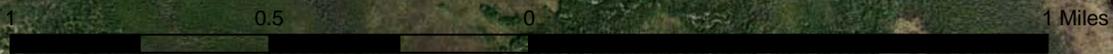
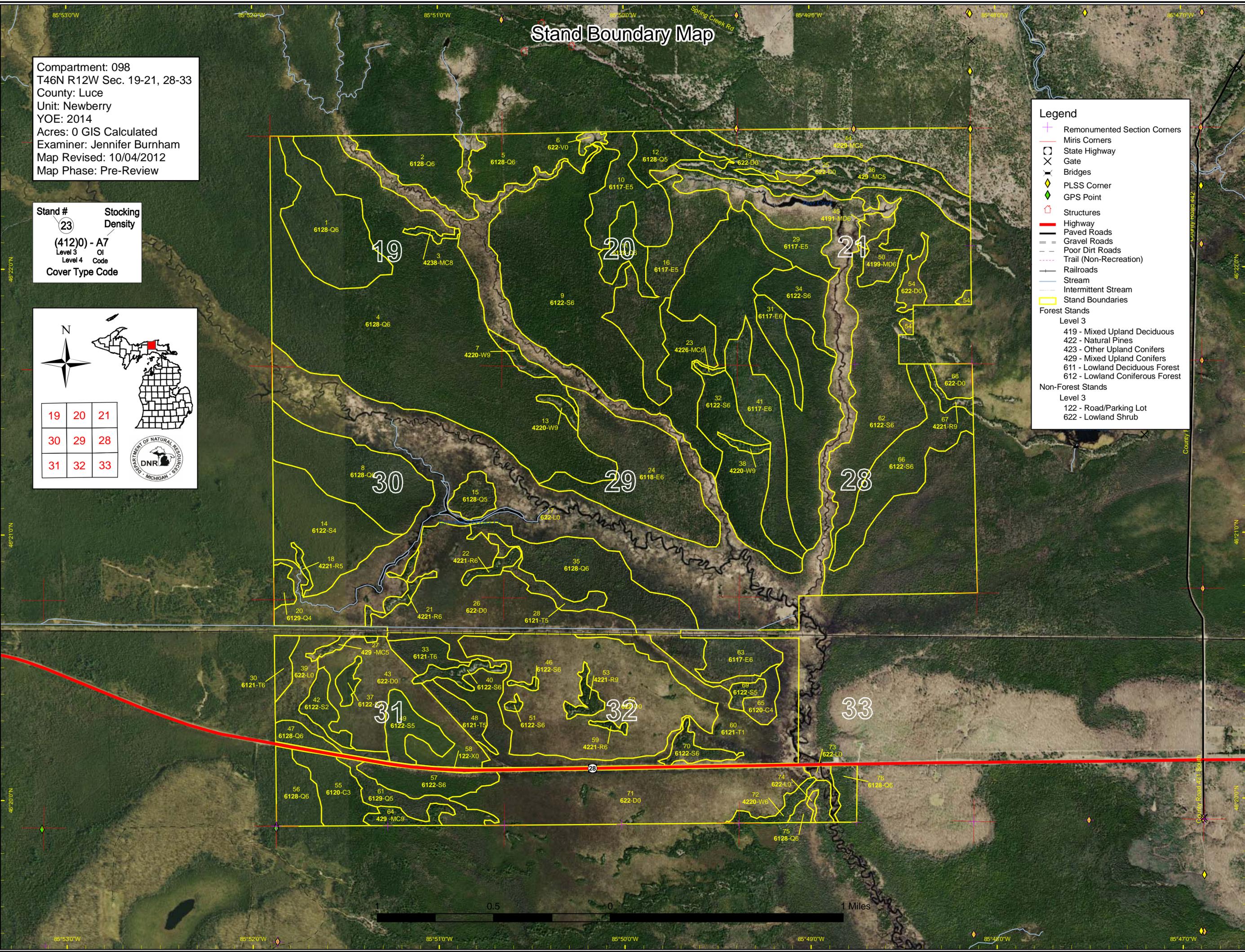
Level 3

- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

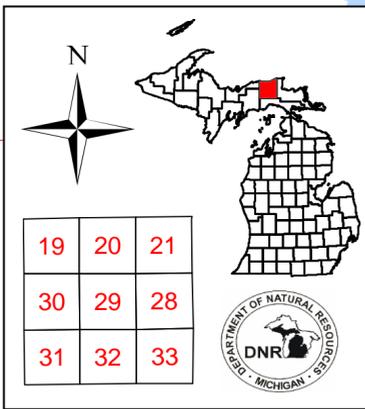
- 122 - Road/Parking Lot
- 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

Compartment: 098
 T46N R12W Sec. 19-21, 28-33
 County: Luce
 Unit: Newberry
 YOE: 2014
 Acres: 0 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 10/04/2012
 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
 - Stand Boundaries
 - Proposed Special Conservation Areas
 - SCA Removal
 - Dedicated Special Conservation Areas
 - Cold Water Streams
 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - Deer Wintering Areas
- ### Forest Stands
- Level 3
- 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
- ### Non-Forest Stands
- Level 3
- 122 - Road/Parking Lot
 - 622 - Lowland Shrub

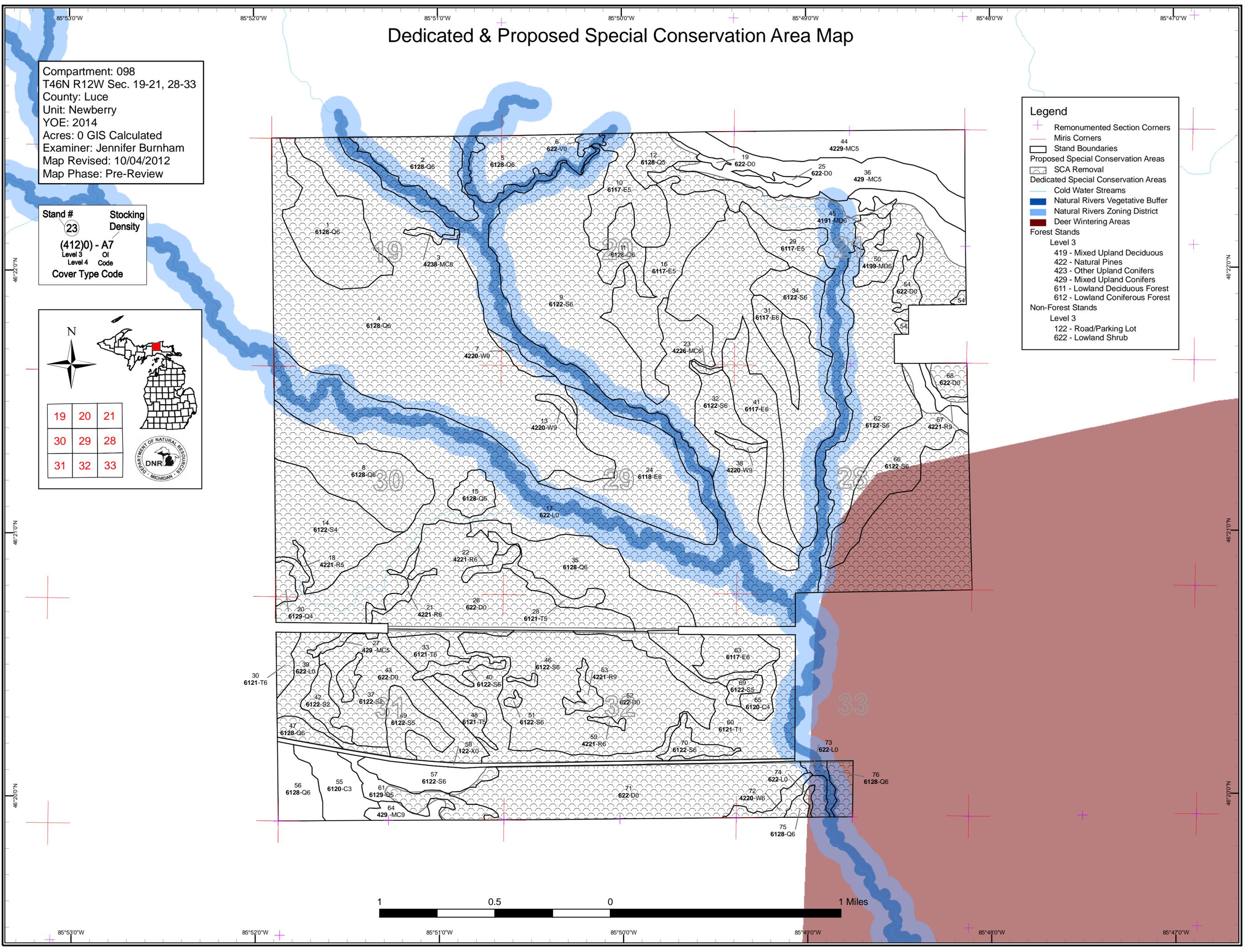
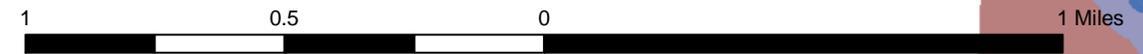
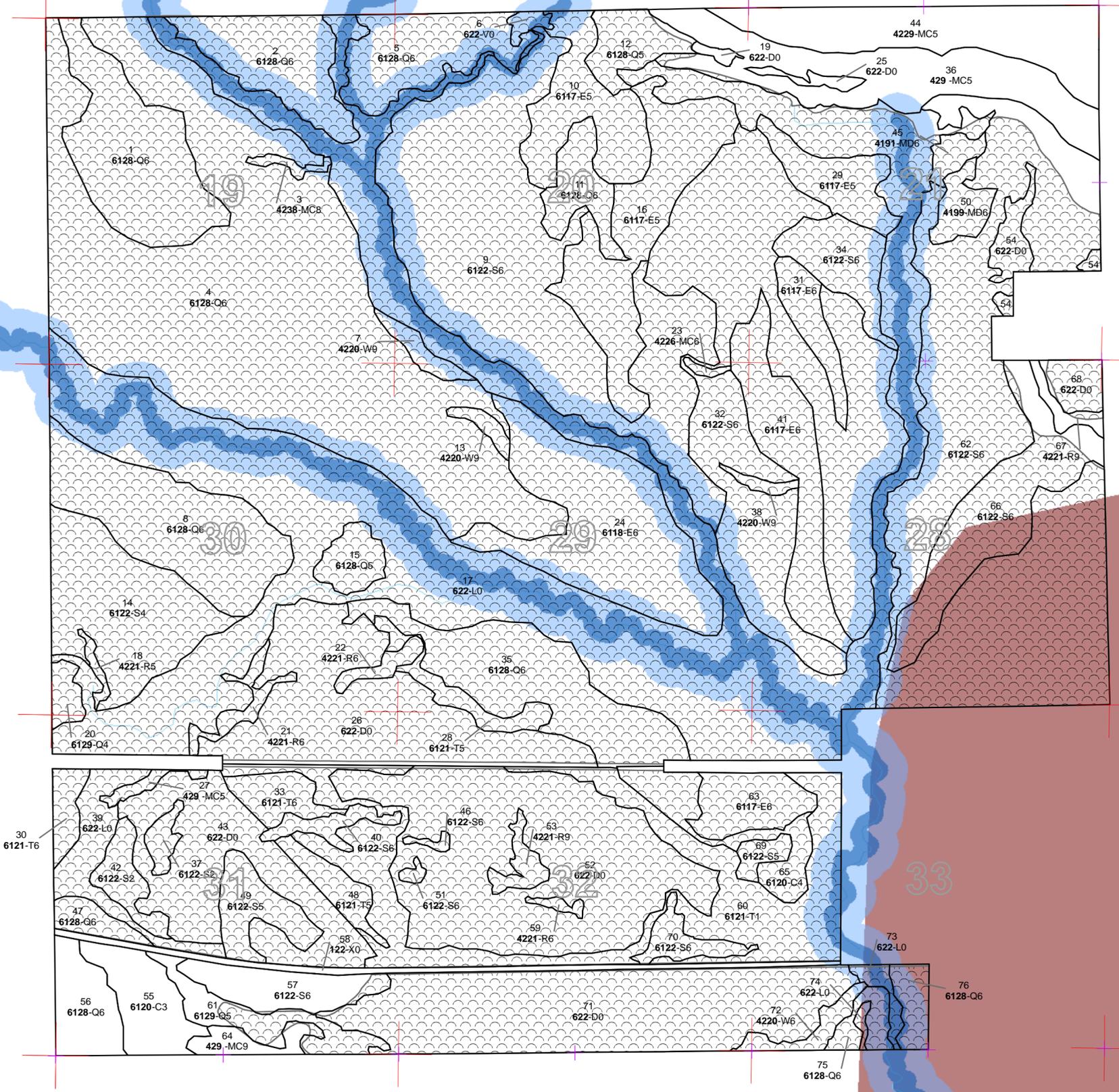


Table 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 098 Year of Entry 2014

Jennifer Burnham : 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 +	Uneren Age	
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	39	0	35	0	0	0	0	0	74
Lowland Conifers	0	0	0	0	0	0	0	32	1002	144	0	0	0	0	1177
Lowland Deciduous	0	0	0	0	0	0	0	0	470	0	0	0	0	0	470
Lowland Shrub	801	0	0	0	0	0	0	0	0	0	0	0	0	0	801
Lowland Spruce/Fir	0	0	0	0	0	57	120	51	1163	0	0	0	0	0	1391
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	26	0	0	0	0	0	26
Natural Mixed Pines	0	0	0	0	0	0	0	0	2	0	0	0	0	95	97
Red Pine	0	0	0	0	0	0	0	33	11	0	0	0	0	0	44
Tamarack	0	0	0	0	0	0	218	19	0	0	0	0	0	0	237
Treed Bog	744	0	0	0	0	0	0	0	0	0	0	0	0	0	744
Upland Conifers	0	0	0	0	0	0	0	5	111	4	0	0	14	0	134
Urban	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
White Pine	0	0	0	0	0	0	0	0	16	16	0	0	0	0	31
Total	1573	0	0	0	0	57	377	140	2834	164	0	0	14	95	5254



Table 2 – Proposed Treatment Summaries

Newberry Mgt. Unit
Year of Entry 2014

Compartment 098
Total Compartment Acres: 5254

Acres by Treatment Type

Commercial Harvest - 0	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
	#Error	#Error	#Error	#Error	#Error	#Error	#Error
Total	#Error	#Error	#Error	#Error	#Error	#Error	#Error

S
t
a
n
d

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	-----------	--------------	-----------	----------	----------------	------------------	----------------------	-----------------

#Error

Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

S
t
a
n
d

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	-----------	--------------	-----------	----------	----------------	------------------	----------------------	-----------------

#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Error

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	-----------	--------------	-----------	----------	----------------	------------------	----------------------	-----------------

Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

S
t
a
n
d

Newberry Mgt. Unit

5 – Forested Stands

Compartment: 098
Year of Entry: 2014

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	101.4	82		From Previous Inventory: Some large WP scattered- mixed red maple, paper birch, black spruce, cedar and tamarack. Speculation - that hardwood will start to fall out of stand b/c of age.
2	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	63.0	82		Mix of lowland hardwood/conifer stands. Larger patch of poor quality hardwood in the center. More wet around the edges because of the proximity to the rivers.
3	42380 - Non Pine Upland Conifer, Mixed Deciduous	Medium Density Log	4.1	92		
4	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	544.4	82		
5	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	62.7	85		
7	42201 - Natural White Pine, Mixed Deciduous	High Density Log	9.7	82		Previous Inventory comments: stand is a ridge of white pine with a mix of hemlock, paper birch and black spruce.
8	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	112.3	94		Previous Inventory comments: paper birch over topping cedar and tamarack- may be able to access from private because of their recent harvesting- would need a real winter to protect soils- evidence of old ice roads.
9	6122 - Black Spruce	High Density Pole	319.5	82		
10	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	62.3	82		Previous Inventory comments: stand is mainly paper birch over lowland conifer- speculation: birch will fall out because of age and stand becomes conifer. Poor access from the north through pvt and State land, potential for small feeder creeks in stand.
11	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	28.9	82		Previous Inventory: dbh around 6" for cedar, stand is a mix of cedar, tamarack, birch and black spruce. Old ice roads in stand.
12	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	27.0	82		Stand has pockets of more open or dead areas that is heavy to tag alder. Evidence of past logging. Crossed at least two small feeder creeks but couldn't trace it's entire length. Stand would be difficult to harvest because of these.
13	42201 - Natural White Pine, Mixed Deciduous	High Density Log	5.9	82		Previous Inventory comments: stand is a ridge of white pine with a mix of hemlock, paper birch and black spruce.
14	6122 - Black Spruce	Low Density Pole	103.6	62		more trees than what it seemed on the photos

S
t
a
n
d

Newberry Mgt. Unit

5 – Forested Stands

Compartment: 098

Year of Entry: 2014



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	18.4	94		Previous Inventory comments: paper birch overtopping cedar - some tamarack 8" dbh and medium stocking.
16	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	103.5	82		mix of paper birch, red maple, cedar, tamarack and black spruce - old ice roads - tag alder and other swamp ground cover present in the more open areas.
18	42210 - Natural Red Pine	Medium Density Pole	3.6	82		Pine ridge on other side of creek. old ice road on east side
20	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	9.2	82		Could possibly get to stand through pvt - very low volume in small stand- poor quality.
21	42210 - Natural Red Pine	High Density Pole	11.7	72	1-50	
22	42210 - Natural Red Pine	High Density Pole	8.0	72		
23	42260 - Natural Pine, Mixed Deciduous	High Density Pole	2.0	82		Pine ridge in the swamp.
24	6118 - Lowland Deciduous with Cedar	High Density Pole	141.1	82		Over mature paper birch with conifers in the understory low volume- would need to cross the RR and then have a large bridge over the Fox River or two to cross Deer Creek/Bev Creek.
27	429 - Mixed Upland Conifers	Medium Density Pole	5.2	72	51-80	
28	6121 - Tamarack	Medium Density Pole	18.8	72		
29	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	34.8	82		slight elevation change to allow poor quality paper birch to grow - now over mature and dying out. conifers coming up underneath.
30	6121 - Tamarack	High Density Pole	12.6	62	1-50	
31	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	22.9	82		
32	6122 - Black Spruce	High Density Pole	309.9	82		
33	6121 - Tamarack	High Density Pole	19.8	62	1-50	
34	6122 - Black Spruce	High Density Pole	37.6	82		
35	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	104.6	82	51-80	

S
t
a
n
d

Newberry Mgt. Unit

5 – Forested Stands

Compartment: 098
Year of Entry: 2014

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
429 - Mixed Upland Conifers	Medium Density Pole	110.6	82	1-50	
6122 - Black Spruce	Medium Density	7.9	54	1-50	
42201 - Natural White Pine, Mixed Deciduous	High Density Log	4.2	92		
6122 - Black Spruce	High Density Pole	12.3	62	51-80	see other comments
6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	72.3	82		
6122 - Black Spruce	Medium Density	18.8	54	1-50	
42290 - Natural Mixed Pine	Medium Density Pole	95.4	Uneven Age	1-50	
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	9.1	82		
6122 - Black Spruce	High Density Pole	2.2	62		see comments
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.9	81	1-50	
6121 - Tamarack	Medium Density Pole	17.5	62	1-50	
6122 - Black Spruce	Medium Density Pole	30.0	54	1-50	
4199 - Other Mixed Upland Deciduous	High Density Pole	16.5	82	51-80	
6122 - Black Spruce	High Density Pole	2.1	62		
42210 - Natural Red Pine	High Density Log	10.3	72		
6120 - Lowland Cedar	High Density Sapling	39.0	64	1-50	
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	33.3	81	1-50	
6122 - Black Spruce	High Density Pole	35.7	78	51-80	

S
t
a
n
d

Newberry Mgt. Unit

5 – Forested Stands

Compartment: 098
Year of Entry: 2014

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	42210 - Natural Red Pine	High Density Pole	3.0	72		
60	6121 - Tamarack	Low Density Sapling	167.9	62	1-50	more trees present than what it looked like on the photos
61	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	32.3	72	51-80	
62	6122 - Black Spruce	High Density Pole	399.5	82	81-110	
63	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	33.0	82	1-50	
64	429 - Mixed Upland Conifers	High Density Log	13.8	120	81-110	
65	6120 - Lowland Cedar	Low Density Pole	34.6	82	1-50	
66	6122 - Black Spruce	High Density Pole	88.5	82	51-80	
67	42210 - Natural Red Pine	High Density Log	7.6	87	51-80	
69	6122 - Black Spruce	Medium Density Pole	8.2	82	1-50	
70	6122 - Black Spruce	High Density Pole	15.1	72	51-80	
72	42200 - Natural White Pine	High Density Pole	11.6	94	1-50	
75	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.9	94	1-50	
76	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	14.3	82	51-80	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	6225 - Bog	5.4	No	Unspecified	
17	6220 - Alder/willow	757.3	No	Unspecified	
19	6224 - Treed Bog	2.8	No	Unspecified	
25	6224 - Treed Bog	5.4	No	Unspecified	
26	6224 - Treed Bog	159.3	No	Low (NonForested)	
39	6229 - Mixed lowland shrub	34.6	No	Low (NonForested)	
43	6224 - Treed Bog	110.4	No	Unspecified	
52	6224 - Treed Bog	236.1	No	Unspecified	
54	6224 - Treed Bog	17.3	No	Unspecified	
58	122 - Road/Parking Lot	22.8	N/A	Unspecified	
68	6224 - Treed Bog	14.4	No	Low (NonForested)	
71	6224 - Treed Bog	198.3	No	Unspecified	
73	6229 - Mixed lowland shrub	7.2	No	Unspecified	
74	6229 - Mixed lowland shrub	2.1	No	Unspecified	

**7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments
multiple - see	SCA Removal	42098_SCARemoval	4808.8	The area being removed from the SCA layer does not meet the Type 1 or Type 2 definition of old growth. There are many indicators of past logging activity in the area.



8 – 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	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	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.