



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 97

Entry Year 2016

Acreage: 1,670

County Luce

Management Area: Danaher Kingston Outwash

Revision Date: 02/19/2014

Stand Examiner: Kristen Matson

Legal Description:

T46N R12W sections 4, 9 and 16

Identified Planning Goals:

Timber production, wildlife habitat and recreation are the main uses of this area. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses. Enhance age class diversity in these forest cover types through continued timber harvest treatments.

Soil and topography:

The majority of the soils in the compartment are Vilas loamy sand, 0-6% slopes, with Rubicon sand, 0-15% slopes in the southern southern part of the compartment. The entire compartment is level to rolling sandy outwash plains (Danaher Plains).

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

State owned land surrounds the compartment on the north, west and south sides. East of the compartment is all privately owned. There are no private parcels within the compartment boundary. This compartment has primarily been managed for timber production, wildlife habitat and recreation. The area is heavily used for blueberry picking and hunting.

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:

Watershed and Fisheries Considerations:

Fisheries Values: None

Fisheries Concerns: This compartment is located on the transition line between the Manistique River watershed (NLMMU) and the Tahquamenon River watershed (ELSMU). Locally, the East Branch Fox River drainage is located in the southern half of the compartment and is also part of the Fox River Natural River Plan. Discussion with the stand examiner resolved issues with the provided data available in IFMap indicating where buffers should be applied in the Natural River zone. Corrections have been applied and treatments are being prescribed based on those corrections to the IFMap data. There are no treatments proposed in the Tahquamenon River drainage so, Fisheries (ELSMU) has no concerns at this time. Comments provided to stand examiner are from ELMSU for the treatments in the Manistique River watershed.

Wildlife Habitat Considerations:

Compartment 97 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and is part of the Danaher plains opening-pine complex. It lies within the Danaher Kingston Management Area and eastern bluebird, Kirtland's warbler, red crossbill, sharptailed grouse, spruce grouse and upland sandpiper are featured species. Pre-settlement maps indicate that the area was composed of white pine-red pine forest and white pine-mixed hardwood forest. Currently, the area is predominately herbaceous openings and jack and red pine plantations, with some inclusions of northern hardwoods and aspen. Aspen is more predominate in the southernmost part of the compartment.

In pine stands, retaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. Retaining soft and hard mast producing species and red and white pine in jack pine final harvests will provide food sources, nest and den trees, suitable raptor nest trees, and improve stand diversity. Large opening complexes will be maintained for the benefit of those species which use them. Additional wildlife species potentially using this compartment include white-tailed deer, ruffed grouse, black bear, and coyote.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Big Hill Dolomite and the Utica Shale subcrop below the glacial drift. The Big Hill could be used for stone. A gravel pit is located 2.5 miles to the south, but there may be potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access to this area is good. Primary access to the compartment is County Road 421, that comes into the northeast part of the compartment. This road is routinely maintained by Luce County Road Commission during the summer months. The Danaher Plains road provides access from the west. There are numerous two track roads throughout the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no recreational facilities within the compartment.

Recreational opportunities include: hunting, wildlife viewing, ORV and snowmobile riding, dispersed camping and blueberry picking.

Fire Protection:

This compartment is part of Fox River Zone Dispatch Area and is covered by Seney Field Office. The large opening complex within the compartment lends itself to fast moving surface fires in spring. Since the Jack Pine within this compartment is not in large contiguous blocks, large running fires should not be a major concern. Access is good because of drier sandy soils, good road system and smaller timber. Risk to private property would be moderate.

Additional Compartment Information:

The following reports from the Inventory are attached:

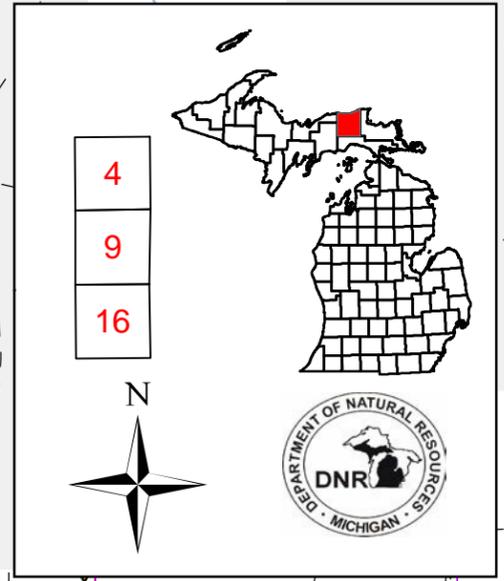
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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**

Compartment: 097
 T46N R12W Sections 4, 9, 16
 County: Luce
 Unit: Newberry
 Management Area: Danaher Kingston Outwash
 YOE: 2016
 Acres: 1,670 GIS Calculated
 Examiner: Kristen Matson
 Map Revised: 08/20/2014
 Map Phase: Pre-Review

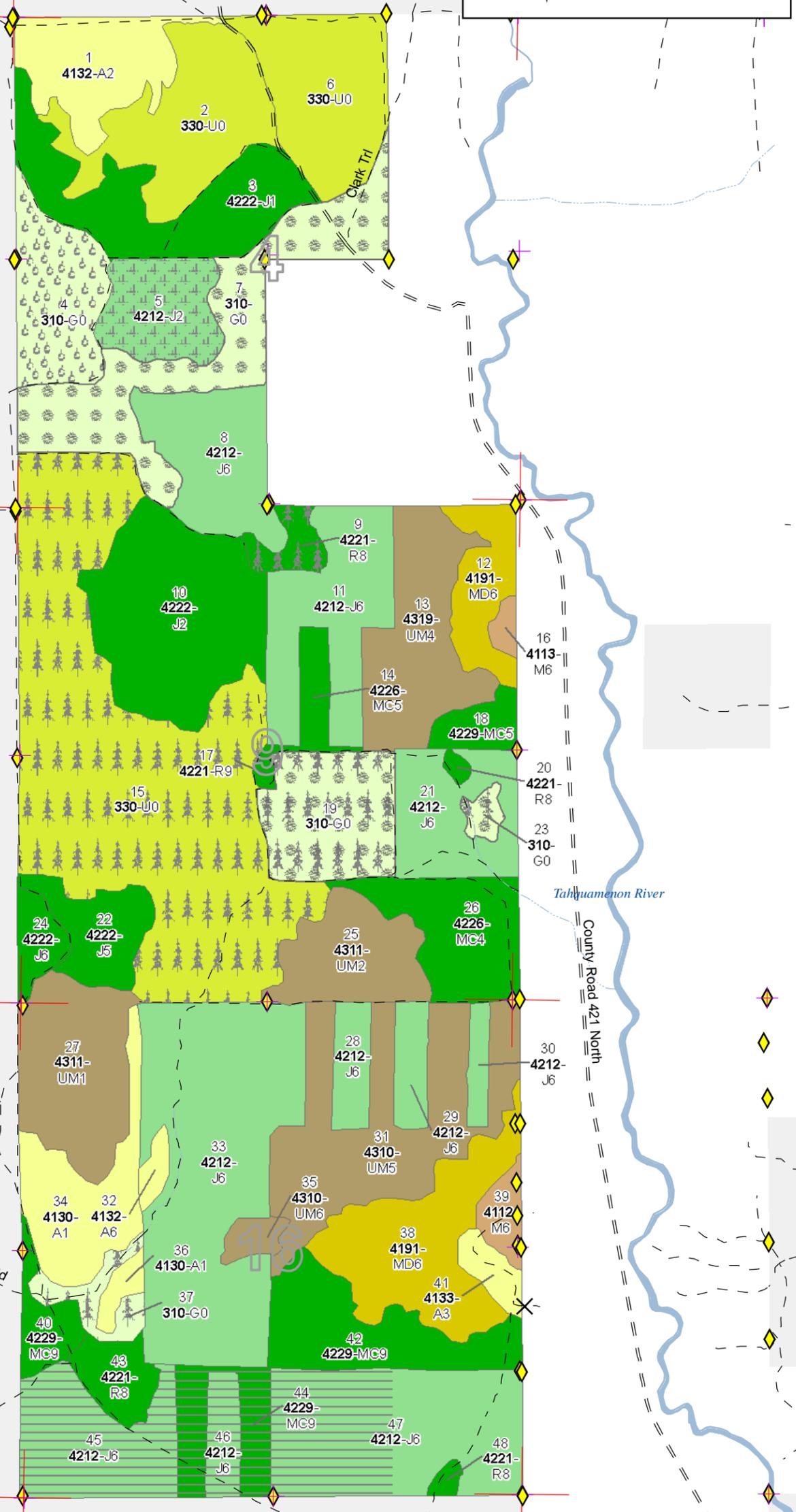
Cover Type & Treatment Map



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

Legend

- Miris Corners
- Remonumented Section Corners
- PLSS Corner
- Gate
- Cabin
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land
- Non-Forest Regeneration
- Planned Regeneration
- Natural
- Planted
- Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Planting (tree species)
- Prescribed Burn
- Other Treatment - See Comments
- Forest Stands
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- Non-Forest Stands
- Level 3
- 310 - Herbaceous Openland
- 330 - Low-Density Trees

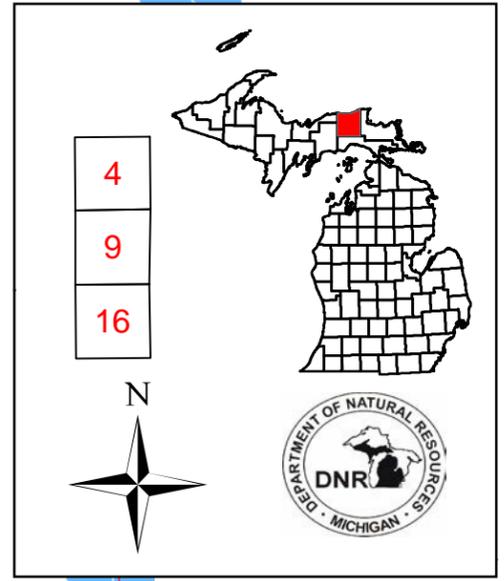


46°25'0"N
46°24'0"N
46°23'0"N

85°50'0"W
85°49'0"W
85°48'0"W

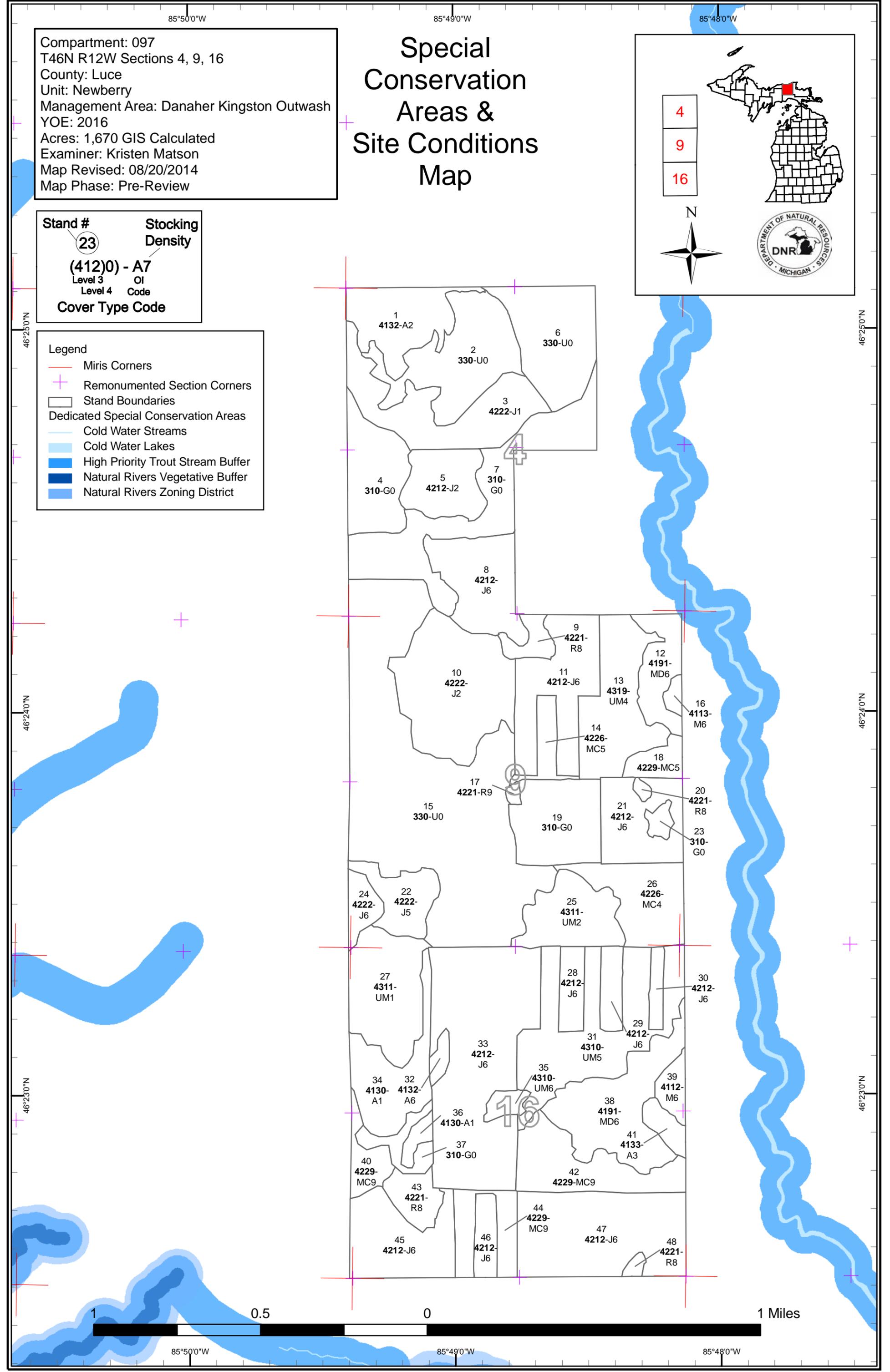
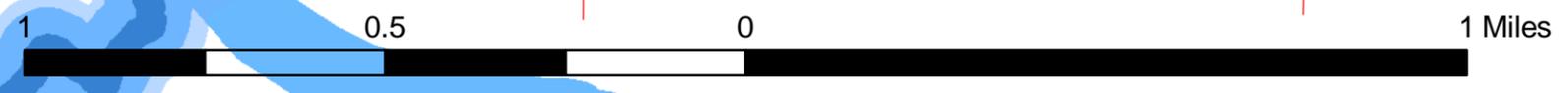
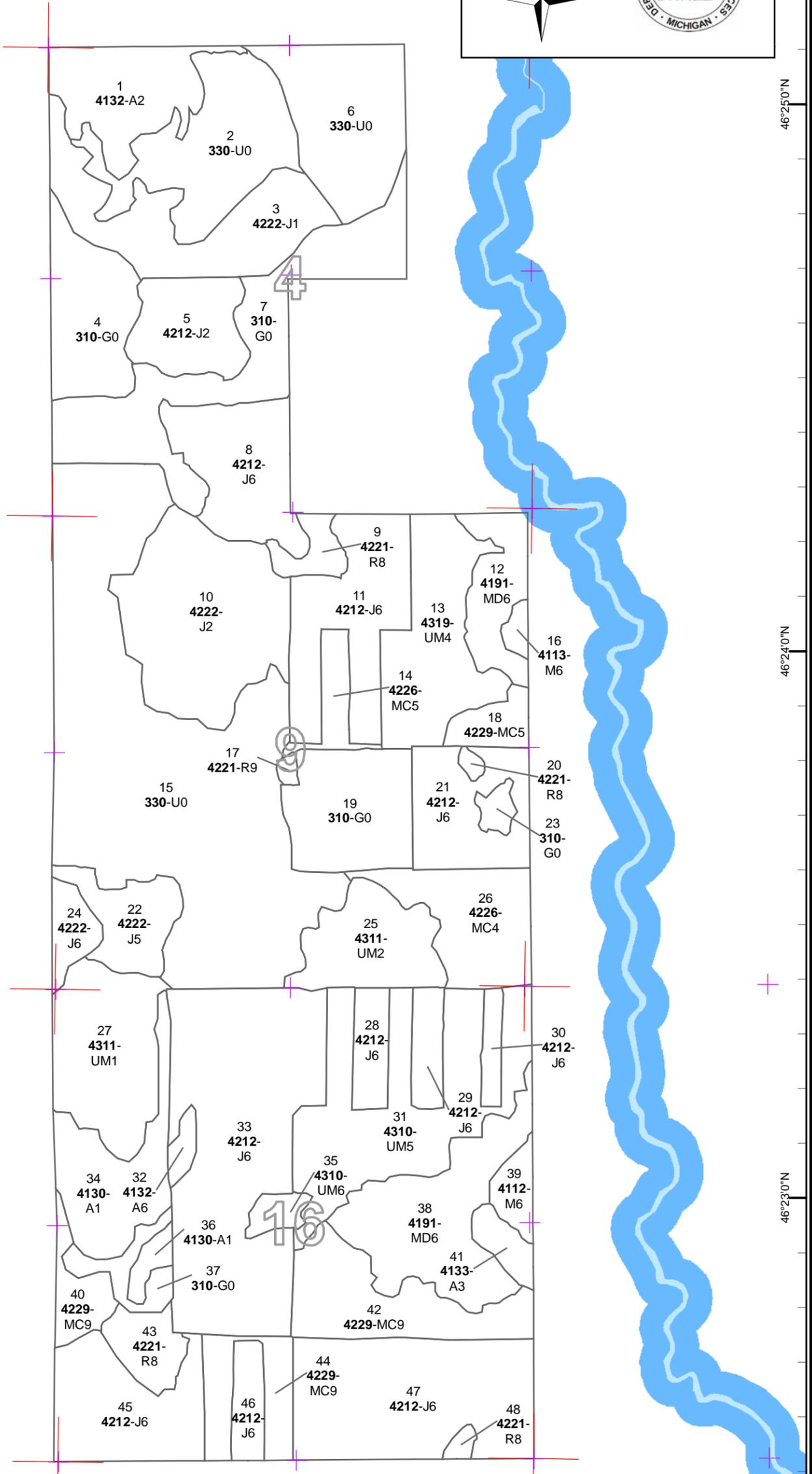
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 T46N R12W Sections 4, 9, 16
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 Map Revised: 08/20/2014
 Map Phase: Pre-Review

Special Conservation Areas & Site Conditions Map



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

- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Stand Boundaries
 - Dedicated Special Conservation Areas
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer
 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District



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	8	81	0	0	4	0	0	0	0	0	0	0	0	93
Herbaceous Openland	168	0	0	0	0	0	0	0	0	0	0	0	0	0	168
Jack Pine	0	29	164	0	42	372	0	0	0	0	0	0	0	0	606
Low-Density Trees	329	0	0	0	0	0	0	0	0	0	0	0	0	0	329
Mixed Upland Deciduous	0	0	0	0	23	0	57	0	0	0	0	0	0	0	80
Natural Mixed Pines	0	0	37	0	0	11	0	65	0	0	0	0	0	21	134
Northern Hardwood	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	0	0	25	2	2	0	0	0	0	28
Upland Mixed Forest	0	0	49	34	0	0	6	0	0	0	0	0	0	131	221
Total	497	37	331	34	65	387	63	101	2	2	0	0	0	152	1670



Report 2 – Proposed Treatment Summaries

Newberry Mgt. Unit
Year of Entry 2016

Compartment 097
Total Compartment Acres: 1,670

Acres by Treatment Type

Commercial Harvest - 115 Tree Planting - 401 Other - 66
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Natural Pines	21	0	0	0	0	0	0	21
Planted Pines	95	0	0	0	0	0	0	95
Total	115	0	0	0	0	0	0	115



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44	42097044-Cut	20.8	42290 - Natural Mixed Pine	High Density Log	66	51-80	Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Leave all oak and additional scattered trees (of all species present except jack pine) not to exceed 30 BA to promote good JP regeneration.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Plant jack pine. Acceptable regen is jack pine with a combination of species currently on site (rp, wp, oak, pb, rm, aspen). Follow up with a regeneration survey according to work instructions.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
45	42097045-Cut	43.6	42120 - Planted Jack Pine	High Density Pole	52	111-140	Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Leave all oak and additional scattered trees (of all species present except jack pine) not to exceed 30 BA to promote good JP regeneration.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Plant jack pine. Acceptable regen is jack pine with a combination of species currently on site (rp, wp, oak, pb, rm, aspen). Follow up with a regeneration survey according to work instructions.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
46	42097046-Cut	10.7	42120 - Planted Jack Pine	High Density Pole	52	111-140	Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Leave all oak and additional scattered trees (of all species present except jack pine) not to exceed 30 BA to promote good JP regeneration.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Plant jack pine. Acceptable regen is jack pine with a combination of species currently on site (rp, wp, oak, pb, rm, aspen). Follow up with a regeneration survey according to work instructions.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
47	42097047-Cut	40.2	42120 - Planted Jack Pine	High Density Pole	52	81-110	Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves. Leave all oak and additional scattered trees (of all species present except jack pine) not to exceed 30 BA to promote good JP regeneration.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Plant jack pine. Acceptable regen is jack pine with a combination of species currently on site (rp, wp, oak, pb, rm, aspen). Follow up with a regeneration survey according to work instructions.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9	42097009-Plant	8.6	42210 - Natural Red Pine	Medium Density Log	73	1-50	Tree Planting	Hand Plant	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Plant jack pine in areas with insufficient regeneration.										
<u>Specs:</u>										
<u>Other Comments:</u> Harvested in 2009. Regen count in 2014 shows most of stand with insufficient regen.										
<u>Next Steps:</u> Follow up with regeneration survey according to work instructions.										
<u>Proposed Start Date:</u> 10/01/2015										
15	NF_42097015-Plant	219.6	3302 - Low Density Conifer Trees				Tree Planting	Hand Plant	3301 - Low Density Deciduous Trees	Cmpt. Review Proposal
<u>Prescription</u> Hand plant large oak per WD specs.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Monitor survival.										
<u>Proposed Start Date:</u> 10/01/2015										
19	NF_42097019-Plant	42.0	3101 - Poverty Grass, Cladonia				Tree Planting	Hand Plant	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Hand plant large oak per WD specs along the north edge of the stand. Take care not to disturb the planted JP seedlings.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Monitor survival.										
<u>Proposed Start Date:</u> 10/01/2015										
23	NF_42097023-Plant	4.2	3101 - Poverty Grass, Cladonia				Tree Planting	Hand Plant	4212 - Planted Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Hand plant large oak per WD specs, taking care not to disturb planted JP seedlings.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Monitor survival.										
<u>Proposed Start Date:</u> 10/01/2015										
37	NF_42097037-Plant	10.9	3101 - Poverty Grass, Cladonia				Tree Planting	Hand Plant	3301 - Low Density Deciduous Trees	Cmpt. Review Proposal
<u>Prescription</u> Hand plant large oak per WD specs.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Monitor survival.										
<u>Proposed Start Date:</u> 10/01/2015										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	42097_OutOfY OE-Burn	37.2					Prescribed Burn	Unspecified	3101 - Poverty Grass, Cladonia	Fld. Tr. Bdy. - Incomplete
<p><u>Prescription</u> Rx burn to kill jack pine trees present, enhance grasses present and promote sharp-tailed grouse habitat. Also prescribe burn stand 406 of <u>Specs:</u> Compartment 97. This is part of stand 3 but into the adjacent compartment. All roads/burn perimeter are established.</p> <p><u>Other</u> <u>Comments:</u> Cover type consists of poverty grass, sweet fern, bracken fern, rough fescue, etc., with scattered jack pine, willow spp., red maple, mixed aspen, pin cherry and red pine. Blueberry present also. Area was Rx burned in April of 1997, FTP W42-398. It was burned again in May of 2003, FTP W42-499/500. Soil type is Vilas loamy sand. Scattered jack pine is 5-20' tall 2-4" DBH. Some areas of stand are filling in with trees and becoming forested. May want to consider burning or loppng some trees off if an open condition is desired. A burn may enhance grasses present.</p> <p><u>Next</u> <u>Steps:</u> Monitor site for native grass species present.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2012</p>										
5	42097005- Other	28.6	42120 - Planted Jack Pine	Medium Density Sapling	14		Other	Other - Specify	4212 - Planted Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Use hand tools to remove scotch pine. <u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u> Monitor for additional scotch pine seeding in.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p>										
Total Treatment Acreage Proposed:		466.4								



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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

Newberry Mgt. Unit
Kristen Matson : Examiner

Compartment 097
Year of Entry 2016

Availability for Management

Availability for Management			Dominant Site Conditions	
Total Acres	Acres Available	Acres Not Available		No
93	93		Aspen	93
606	606		Jack Pine	606
80	80		Mixed Upland Deciduous	80
134	134		Natural Mixed Pines	134
12	12		Northern Hardwood	12
28	28		Red Pine	28
220	220		Upland Mixed Forest	220
1,173	1,173		Total Forested Acres	1,173
	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.*



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
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Comments



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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	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.
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.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4132 - Aspen, Jack Pine	Medium Density	38.3	23		Aspen and Jack Pine mix.
42221 - Natural Jack Pine, Mixed Deciduous	Low Density Sapling	55.3	23		Natural regeneration of trees.
42120 - Planted Jack Pine	Medium Density	28.9	14		Cut in 1998 (TS#42-038-96). Planted in May 2000 (FTP C42-440).
42120 - Planted Jack Pine	High Density Pole	41.8	40	81-110	JP growing well. Very few RP and WP. Very little regeneration.
42210 - Natural Red Pine	Medium Density Log	8.6	73	1-50	Cut in 2009 (TS#005-06). Scarified 2011 (FTP C42-661). Residual BA varies from 0 to 100. Regen check in spring 2014 shows 211 t/ac. Plant areas with insufficient regen to JP.
42220 - Natural Jack Pine	Medium Density	76.3	29		Cut in 1985. The south part of the stand is less dense. There are a few scattered larger residual trees (jp, rp, wp).
42120 - Planted Jack Pine	High Density Pole	51.2	52	111-140	Planted JP with scattered RP, WP, oak and red maple.
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	22.8	46	51-80	Mix of hardwoods and conifers with variable species composition, density and size.
4319 - Mixed Upland Forest	Low Density Pole	51.1	Uneven Age	1-50	Natural succession of old stump field to clumps of trees. Species composition, size, and density varies greatly throughout.
42260 - Natural Pine, Mixed Deciduous	Medium Density Pole	10.8	52		Natural stand of varying density, size and species of trees. More open at north.
4113 - R.Maple, Conifer	High Density Pole	3.2	75	51-80	Poor quality hardwoods with conifers mixed in. Beech is dying/dead.
42210 - Natural Red Pine	High Density Log	1.6	82	111-140	Thinned with TS#003-06-01, complete in 2008.
42290 - Natural Mixed Pine	Medium Density Pole	10.3	76	51-80	Mix of species, density and size. Fairly open.
42210 - Natural Red Pine	Medium Density Log	1.6	94	51-80	Thinned with TS#003-06-01 in 2008. Trench 10-09 FTP C42-657. Planted 2010, between residual trees. 2014 regen count: 333 JP t/ac, 100 WP t/ac, 33 Aspen t/ac. Stocking is good in areas with lower BA, and FTP can be closed.
42120 - Planted Jack Pine	High Density Pole	34.6	52	81-110	Planted JP with scattered RP, WP, and oak.
42220 - Natural Jack Pine	Medium Density Pole	22.1	23		Cut in 1986 and burned in 1991. Naturally regenerating to JP with a mix of other species. A few scattered older residual trees.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	42220 - Natural Jack Pine	High Density Pole	10.0	28		Cut with TS#002-86. Variable density - some sparse areas.
25	4311 - Pine, Aspen Mix	Medium Density	34.2	32		Scattered larger pine and oak with a mix of poles and saplings.
26	42260 - Natural Pine, Mixed Deciduous	Low Density Pole	37.3	29		Harvested in 1985.
27	4311 - Pine, Aspen Mix	Low Density Sapling	49.3	23		Stand was harvested in 1985, and burned in 1991. Naturally regenerating to a mix of conifers and hardwoods.
28	42120 - Planted Jack Pine	High Density Pole	12.0	52		A lot of hardwood regen, especially in the south.
29	42120 - Planted Jack Pine	High Density Pole	10.8	52	81-110	There is a lot of hardwood regen in the south half of the stand.
30	42120 - Planted Jack Pine	High Density Pole	6.5	52		A lot of hardwood regen, especially in the south half.
31	4310 - Pine, Oak Mix	Medium Density Pole	80.2	Uneven Age	51-80	A mix of species, ages and sizes throughout. Scattered open areas. Seedling through log sized trees with variable density.
32	4132 - Aspen, Jack Pine	High Density Pole	4.2	59		Cut with adjacent stand in 10 years. Beech dying.
33	42120 - Planted Jack Pine	High Density Pole	122.5	52	81-110	Planted JP with scattered RP, oak, WP, aspen and paper birch. The northeast contains a lot of oak.
34	4130 - Aspen	Low Density Sapling	37.6	23		Cut in 1985 (#024-85) and burned in 1991.
35	4310 - Pine, Oak Mix	High Density Pole	5.7	69	81-110	Mixed stand of RP, WP, JP, oak and aspen.
36	4130 - Aspen	Low Density Sapling	5.0	23		Cut in 1985 (#024-85) and burned in 1991.
38	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	57.2	68	51-80	Variable species composition and BA with some small openings. Mainly oak with a mix of other species.
39	4112 - Maple, Beech, Cherry Association	High Density Pole	8.5	79	51-80	Thinned with Sale #42-004-06-01. Dense regeneration. Regen survey summer 2012: hem = 205, RM = 1198, black cherry = 342, total TPA = 3596. Beech residual is dying and red maple has some top dieback.
40	42290 - Natural Mixed Pine	High Density Log	12.2	76	81-110	Mix of red and white pine with other species present. BA is variable with some scattered small openings.
41	4133 - Aspen, Mixed Pine	High Density Sapling	7.9	17		Cut with sale #014-96 in 1997. Dense regeneration. Scattered residual pine.

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Newberry Mgt. Unit

Report 8 – Forested Stands

Compartment: 097
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	42290 - Natural Mixed Pine	High Density Log	42.3	77	111-140	Natural RP with other species. BA is variable, and stand contains some small openings.
43	42210 - Natural Red Pine	Medium Density Log	14.1	76	81-110	Sale #003-06-01, complete in 2008.
44	42290 - Natural Mixed Pine	High Density Log	20.8	Uneven Age	51-80	Tree species, density and size are variable. Some open areas.
45	42120 - Planted Jack Pine	High Density Pole	43.6	52	111-140	Planted JP with a variety of other species.
46	42120 - Planted Jack Pine	High Density Pole	10.7	52	111-140	Planted JP with some other species growing naturally.
47	42120 - Planted Jack Pine	High Density Pole	79.9	52	81-110	Planted JP with other species mixed in.
48	42210 - Natural Red Pine	Medium Density Log	2.2	76	81-110	Harvested as "Danaher Pine" #003-06-01.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3302 - Low Density Conifer Trees	57.4	Yes	Low	Prescribed burn in 1991 for opening maintenance. Currently filling in with trees and shrubs.
4	3101 - Poverty Grass, Cladonia	37.6	Yes	High	Prescribed for burn with stand 3 adjacent compartment 96.
6	3302 - Low Density Conifer Trees	51.9	Yes	Low	Clearcut in 1987 (TS#021-85), and burned in 1997. Currently filling in with trees and shrubs.
7	3101 - Poverty Grass, Cladonia	73.1	Plantation	Jack Pine	TS# 42-005-06-01. Planted to JP in spring 2010. Regen check spring 2014: Planted JP = 860 t/ac, Volunteer JP = 150 t/ac, Volunteer red maple = 25 t/ac, In addition the east part of the stand contains about 100 t/ac of aspen.
15	3302 - Low Density Conifer Trees	219.6	Yes	Low	Burned in 1991. Filling in with trees.
19	3101 - Poverty Grass, Cladonia	42.0	Plantation	Jack Pine	Planted to JP in spring 2010 (FTP C42-658). Regen count 2014: 932 JP t/ac, 266 A t/ac, 22 RM t/ac.
23	3101 - Poverty Grass, Cladonia	4.2	Plantation	Jack Pine	TS#003-06-01 complete in 2008. Trenched 10/09 (FTP C42-657). 2014 regen survey: 867 JP t/ac, 66 WP t/ac, 33 Aspen t/ac. Fully stocked.
37	3101 - Poverty Grass, Cladonia	10.9	Yes	Low	Burned in 1991. Starting to fill in with trees, especially around the edges.