



# Compartment Review Presentation

## Newberry Forest Management Unit

Compartment 16

Entry Year 2016

Acreage: 1,665

County Luce

Management Area: Two Hearted Headwaters

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**Revision Date:** 04/30/2014

**Stand Examiner:** Matt Payment

### Legal Description:

T48N R11W, Sections 1-11

### Identified Planning Goals:

Recreation, timber, and wildlife 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.

### Soil and topography:

The soil in this compartment is mostly made up of a complex of sandy soils mixed in with level lowland peat soils. The eastern end of the compartment is mostly level to rolling sand complexes with poorly drained soils mixed throughout. The western end of the compartment is mostly level lowlands that are poorly drained with sand ridges and 'islands' of pine interspersed throughout the lowlands. The sand ridges range from rolling to very steep in places. Forested cover types in the lowlands are typically treed bogs, marsh, lowland conifers and tag alder. The forested cover types on the sandy soil types are typically pine, spruce, birch, and aspen with some of the richer upland soils having maple, beech hemlock and white pine.

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

The compartment is largely state owned with a fair amount of private land and corporate land scattered around and throughout. The Michigan Nature Association owns a '40' near Ladue Lake. The western end of the compartment has mostly avoided heavy timber production due to remoteness, difficult topography and lowland nature. The eastern end of the compartment is more accessible and has seen some recent timber harvesting activity on the corporate private land. The compartment is used for an assortment of recreational opportunities. There are a fair amount of camps on the private land in and around the compartment.

### Unique Natural Features:

The entire compartment falls within the boundaries of the Two Hearted River watershed. Ladue Lake, Beavertown Lakes, the North, West, and main branch of the Two Hearted River are all major components of the watershed. The Two Hearted River system is designated as a Natural River. Also located in the compartment is a portion of Michigan Natural Feature that is classified as a Muskeg.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

The entire compartment falls within the boundaries of the Two Hearted River watershed. The Two Hearted River system is designated as a Natural River which has an associated written plan to guide land management activities.

### Watershed and Fisheries Considerations:

Fisheries Values: Excellent

Fisheries Concerns: Bordering this compartment are the North and West Branches of the Two-Hearted River, both designated trout streams and included under the Two-Hearted Natural River Plan. Brook trout populations in both streams are well intact and popular fisheries. Occasionally, a steelhead or Coho salmon can be caught in these river reaches. A minimum buffer of 100 feet should be adhered to when stand treatments are near these two rivers.

### Wildlife Habitat Considerations:

Compartment 16 lies within the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment lies within the Two Hearted Headwaters Management Area with American marten, black bear, Blackburnian warbler, and pileated woodpecker as featured species. The West Branch of the Two Hearted River serves as the southern border of the compartment and the North Branch of the Two Hearted River borders the northern stands in the compartment. The western portion of the compartment is largely comprised of treed bogs and swamps interspersed with mature white pine stands and swamp conifers. The eastern portion of the compartment contains a mix of spruce and white

and red pine stands. The current vegetation patterns appear to be reflective of pre-settlement vegetation conditions.

Maintaining structural and species diversity as much as possible in harvested stands will help achieve wildlife objectives in this compartment. Leave trees will provide food sources, nest and den locations and improve stand diversity. Conifers and hard mast producing species will be left in aspen final harvests to provide similar benefits. Excellent wildlife travel corridors exist along the rivers. Additional species utilizing this compartment include white-tailed deer, black bear, moose, gray wolf, American marten, beaver, mink, otter, and snowshoe hare.

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

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau and Munising Formations subcrop below the glacial drift. The Trempealeau could be used for stone. There are no gravel pits in the area, and potential appears to be limited. There is no economic oil and gas production in the UP.

### **Vehicle Access:**

: The compartment can be accessed via County Road 418. This road is maintained by the Luce County Road Commission. The County has designated this road as seasonal and they do not routinely maintain it as they do other county roads. County Road 418 progressively gets worse as you move west and runs as far as Ladue Lake. Other roads within the compartment are two tracks that lead to private camps.

### **Survey Needs:**

Replace the private/corporate survey corners currently monumented with wooden posts in Sections 8 & 9 with DNR monuments.

### **Recreational Facilities and Opportunities:**

This compartment has an assortment of recreational opportunities such as hiking, hunting, fishing and wildlife viewing. There are a fair number of private hunting camps throughout the compartment.

### **Fire Protection:**

Area is part of the Two Hearted Zone Dispatch Area. Large fire runs are possible. Normal fire suppression response will be marginally effective in this area because of the limited access and mixture of ridges/lowland tree bogs. Risk to private property would be moderate.

### **Additional Compartment Information:**

The bridge that crosses the North Branch of the Two Hearted River on County Road 418 is only rated for 3 Tons. This will have to be addressed if logging is to occur.

### **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**

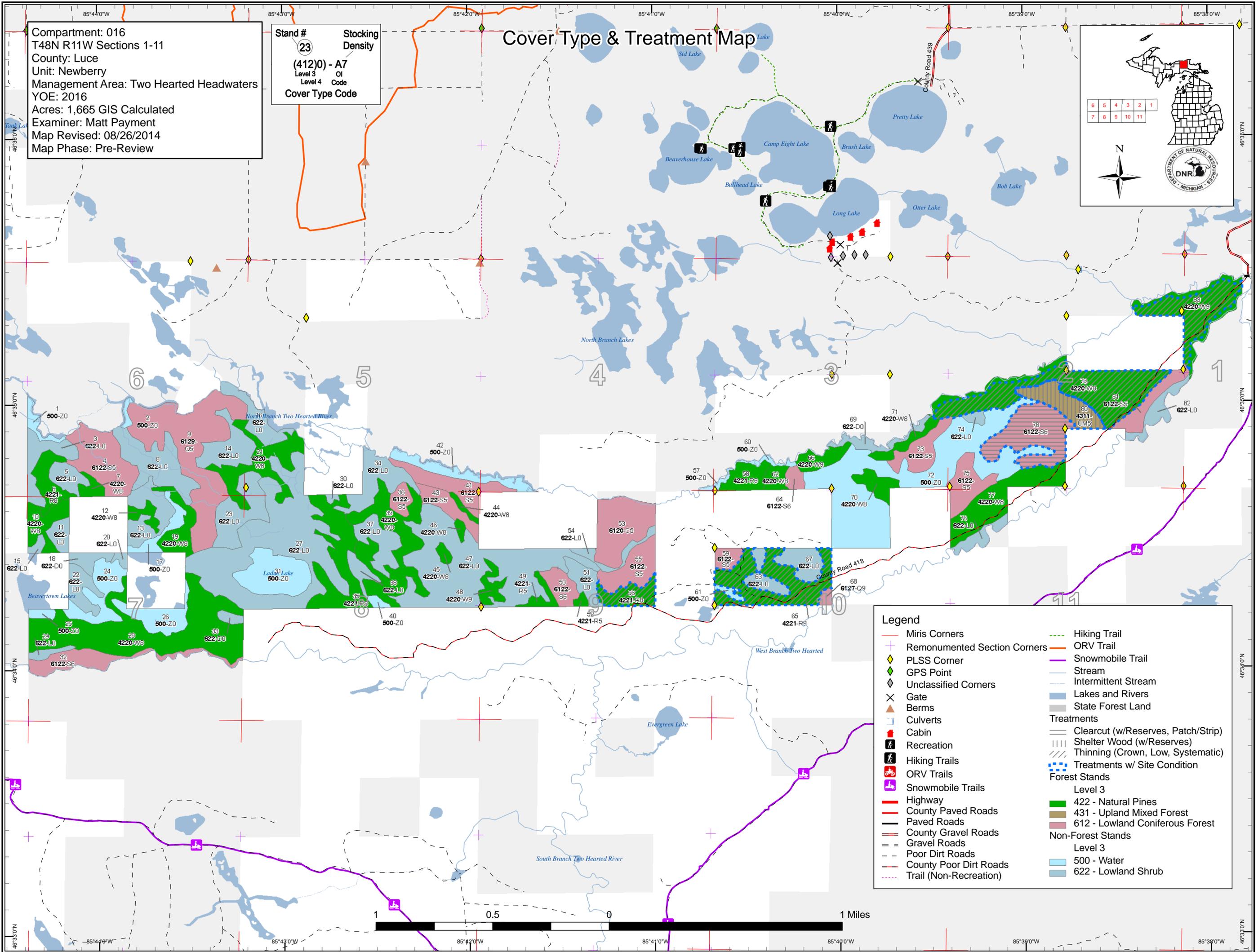
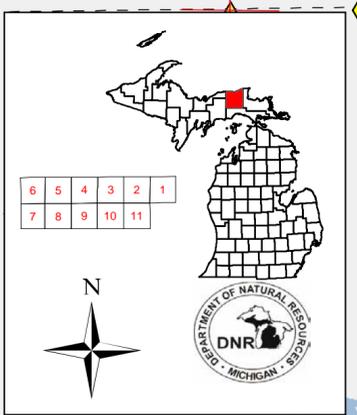
### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

Compartment: 016  
 T48N R11W Sections 1-11  
 County: Luce  
 Unit: Newberry  
 Management Area: Two Hearted Headwaters  
 YOE: 2016  
 Acres: 1,665 GIS Calculated  
 Examiner: Matt Payment  
 Map Revised: 08/26/2014  
 Map Phase: Pre-Review

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

# Cover Type & Treatment Map



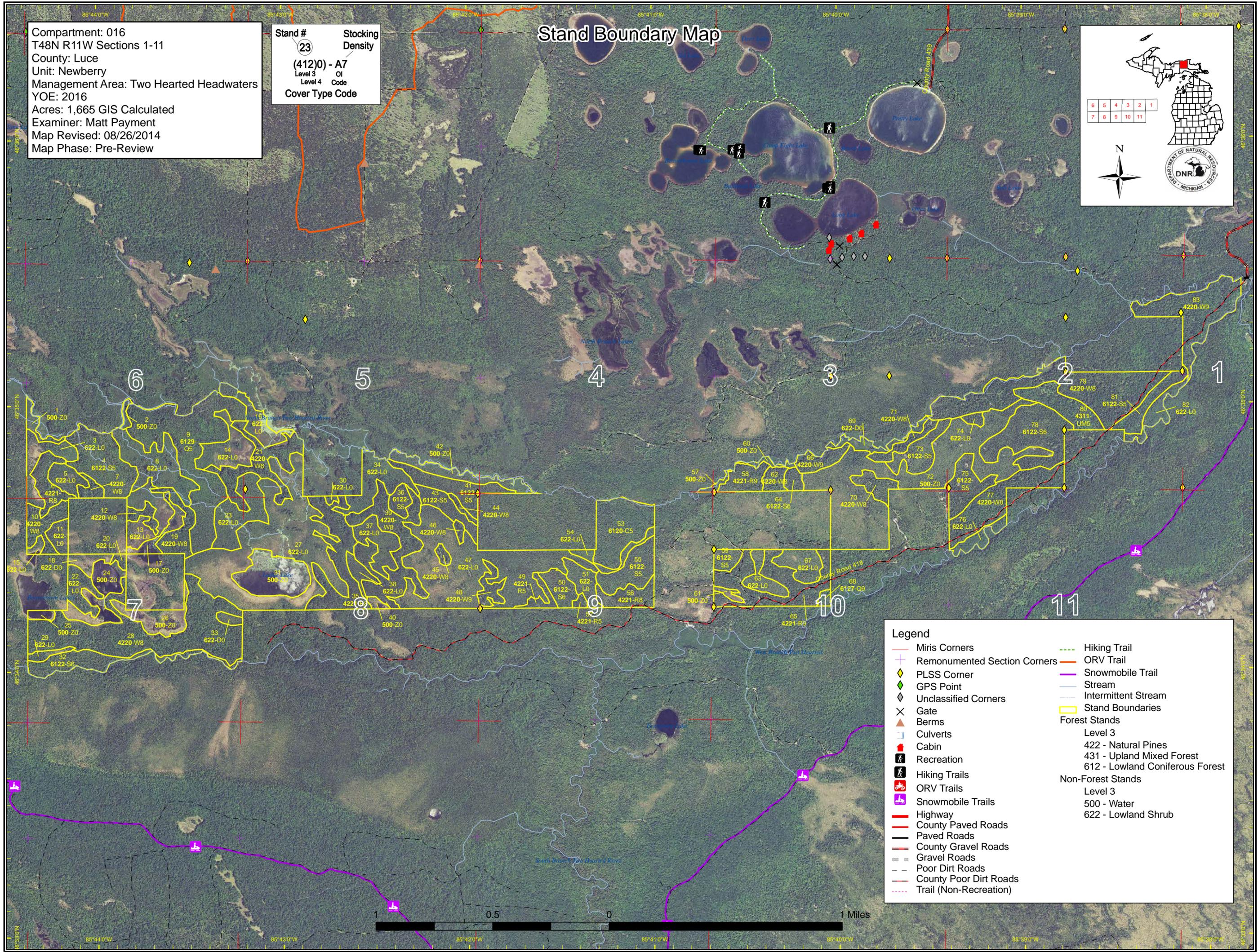
**Legend**

— Miris Corners	--- Hiking Trail
⊕ Remonumented Section Corners	— ORV Trail
◆ PLSS Corner	— Snowmobile Trail
◇ GPS Point	— Stream
◇ Unclassified Corners	— Intermittent Stream
× Gate	— Lakes and Rivers
▲ Berms	— State Forest Land
— Culverts	<b>Treatments</b>
— Cabin	— Clearcut (w/Reserves, Patch/Strip)
— Recreation	— Shelter Wood (w/Reserves)
— Hiking Trails	— Thinning (Crown, Low, Systematic)
— ORV Trails	— Treatments w/ Site Condition
— Snowmobile Trails	<b>Forest Stands</b>
— Highway	Level 3
— County Paved Roads	— 422 - Natural Pines
— Paved Roads	— 431 - Upland Mixed Forest
— County Gravel Roads	— 612 - Lowland Coniferous Forest
— Gravel Roads	<b>Non-Forest Stands</b>
— Poor Dirt Roads	Level 3
— County Poor Dirt Roads	— 500 - Water
— Trail (Non-Recreation)	— 622 - Lowland Shrub

# Stand Boundary Map

Compartment: 016  
 T48N R11W Sections 1-11  
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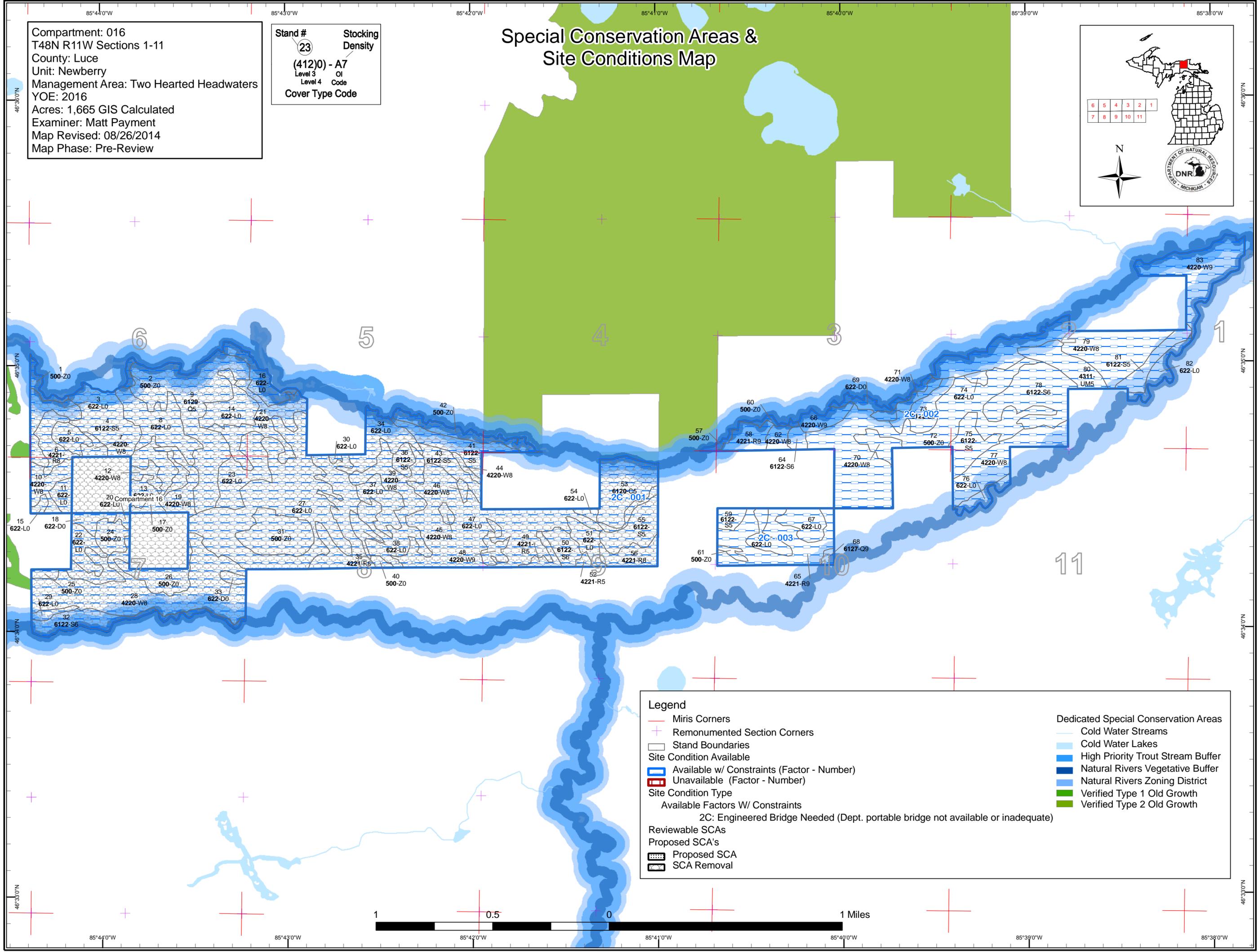
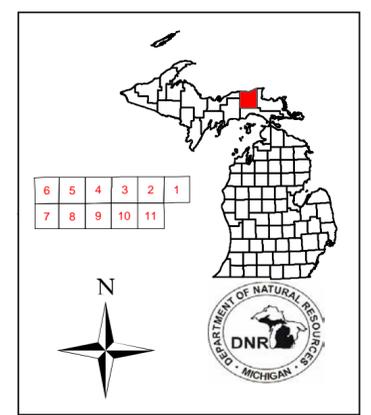
**Legend**

— Miris Corners	--- Hiking Trail
+ Remonumented Section Corners	— ORV Trail
◆ PLSS Corner	— Snowmobile Trail
◆ GPS Point	— Stream
◆ Unclassified Corners	— Intermittent Stream
× Gate	— Stand Boundaries
▲ Berms	<b>Forest Stands</b>
□ Culverts	Level 3
■ Cabin	422 - Natural Pines
⚡ Recreation	431 - Upland Mixed Forest
⚡ Hiking Trails	612 - Lowland Coniferous Forest
⚡ ORV Trails	<b>Non-Forest Stands</b>
⚡ Snowmobile Trails	Level 3
— Highway	500 - Water
— County Paved Roads	622 - Lowland Shrub
— Paved Roads	
— County Gravel Roads	
— Gravel Roads	
— Poor Dirt Roads	
— County Poor Dirt Roads	
— Trail (Non-Recreation)	

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# Special Conservation Areas & Site Conditions Map



**Legend**

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
- Site Condition Type
  - Available Factors W/ Constraints
  - 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- Reviewable SCAs
- Proposed SCA's
  - Proposed SCA
  - SCA Removal

**Dedicated Special Conservation Areas**

- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Verified Type 1 Old Growth
- Verified Type 2 Old Growth



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
Cedar	0	0	0	0	0	0	0	0	0	0	35	0	0	0	35
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	84	0	0	0	84
Lowland Shrub	498	0	0	0	0	0	0	0	0	0	0	0	0	0	498
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	11	183	36	0	0	0	229
Red Pine	0	0	0	0	0	0	0	0	0	91	0	39	0	0	130
Treed Bog	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	21	0	0	0	0	21
Water	232	0	0	0	0	0	0	0	0	0	0	0	0	0	232
White Pine	0	0	0	0	0	0	0	0	31	327	62	0	0	0	419
<b>Total</b>	<b>747</b>	<b>0</b>	<b>41</b>	<b>621</b>	<b>217</b>	<b>39</b>	<b>0</b>	<b>0</b>	<b>1665</b>						



## Report 2 – Proposed Treatment Summaries

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

**Compartment 016**  
**Total Compartment Acres: 1,665**

### Acres by Treatment Type

Commercial Harvest - 222    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
<b>Lowland Coniferous Forest</b>	42	0	0	0	0	0	42
<b>Natural Pines</b>	0	0	0	0	159	0	159
<b>Upland Mixed Forest</b>	0	0	0	21	0	0	21
<b>Total</b>	42	0	0	21	159	0	222



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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  
Comments:

Next  
Steps:

Proposed  
Start Date: #Type!

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**Total Treatment  
Acreage Proposed: 0.0**



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56	42016056-Cut	13.3	42210 - Natural Red Pine	Medium Density Log	99	171- 200	Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Crown Thinning. Thin stand to 80-100 BA. Leave component of larger red and white pine in the canopy.										
<u>Specs:</u>										
<u>Other</u> Leave a component of aspen and paper birch. Buffer stands along wet areas 50-100 ft.										
<u>Comment:</u> Follow Natural River Plan (within 1/4 mile of river)..										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)										
65	42016065-Cut	44.6	42210 - Natural Red Pine	High Density Log	99	141- 170	Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Thin stand to 80-100 BA. Leave component of larger red and white pine in the canopy. Leave all aspen and paper birch.										
<u>Specs:</u> Cut stand in winter or dry summer.										
<u>Other</u> Buffer low wet areas 50-100 ft.										
<u>Comment:</u> Follow Natural River Plan.										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)										
78	42016078-Cut	42.4	6122 - Black Spruce	High Density Pole	94		Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal
<u>Prescription</u> Cut all Black Spruce. Leaved 1-3 white pine per acre.										
<u>Specs:</u> Cut in winter or dry summer.										
<u>Other</u> Buffer low wet areas 50-100 ft.										
<u>Comment:</u> Follow Natural River Plan (within 1/4 mile of river).										
<u>Next Steps:</u> Regeneration Survey. Acceptable regeneration includes spruce, fir and white pine.										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)										
79	42016079-Cut	67.9	42200 - Natural White Pine	Medium Density Log	91	111- 140	Harvest	Crown Thinning	42200 - Natural White Pine	Cmpt. Review Proposal
<u>Prescription</u> Crown thinning. Thin stand to 80-100 BA. Leave component of larger white pine in the canopy. Leave component of other species present.										
<u>Specs:</u>										
<u>Other</u> Concentrate leaving larger white pine along the river. Leave larger diameter aspen for Pileated Woodpecker.										
<u>Comment:</u> 100' buffer along river shown on treatment. Follow Natural River Plan.										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2015										
<u>Limiting Factor</u> 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
80 42016080-Cut	20.7	4311 - Pine, Aspen Mix	Medium Density Pole	95		Harvest	Shelter Wood with Reserves	4311 - Pine, Aspen Mix	Cmpt. Review Proposal

Prescription Shelterwood with Reserves. Remove poor quality white pine and red maple and cut all aspen. Residual BA 50-60 sq ft total.  
Specs: Leave some balsam fir, red maple, and paper birch for retention and cut remaining to reach basal area range.

Other Leave large aspen in areas with red pine.  
Comment: Follow Natural River Plan.

Next Steps: Regeneration Survey. Acceptable regeneration includes white pine, aspen, birch, maple and fir.

Proposed Start Date: 10/01/2015

Limiting Factor 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)

83 42016083-Cut	32.9	42200 - Natural White Pine	High Density Log	103	111-140	Harvest	Crown Thinning	42200 - Natural White Pine	Cmpt. Review Proposal
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Prescription Crown thinning. Thin stand to 80-100 BA. Leave component of larger red and white pine in the canopy.  
Specs: Leave component of other species present.

Other Concentrate leaving larger white pine along the river. Leave Larger diameter aspen for Pileated Woodpecker.  
Comment: 100' buffer along river shown on treatment.  
 Follow Natural River Plan.

Next Steps:

Proposed Start Date: 10/01/2015

Limiting Factor 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)

**Total Treatment  
Acreage Proposed: 221.8**

## Report 5 – Site Conditions

Newberry Mgt. Unit  
Matt Payment : Examiner

Compartment 016  
Year of Entry 2016

### Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions 2C	2C
6	6			6
35	35		Cedar	35
84	84		Lowland Conifers	84
229	229		Lowland Spruce/Fir	229
130	130		Red Pine	130
21	21		Upland Mixed Forest	21
413	413		White Pine	413
918	918		Total Forested Acres	918
	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	Available	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	1,116	No Limiting Factor	No Limiting Factor	No Limiting Factor	
<b>Comments:</b>							
002	Available	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	470	No Limiting Factor	No Limiting Factor	No Limiting Factor	
<b>Comments:</b>							

# Report 5 – Site Conditions

Newberry Mgt. Unit  
Matt Payment : Examiner

Compartment 016  
Year of Entry 2016

003	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	79	No Limiting Factor
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Comments:



### 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
Compartment 16	Other SCA		SCA Removal	1193.9
<b>Comments</b> This area does not meet old growth criteria. The majority of the area is already covered by HCVA's and an ERA.				



**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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4	6122 - Black Spruce	Medium Density Pole	35.4	90	81-110	Stand is heavy to Black Spruce and White Cedar. Stand is old and dying out in places.  Previous inventory suggests that it is possible old growth.  Access is difficult due to low wet ground and CR. 418 bridge weight restriction.
6	42210 - Natural Red Pine	Medium Density Log	13.7	90	141-170	A ridge of red pine and white pine, heavier white pine to the south end. The red pine is utility pole size along the ridge. Some aspen, balsam fir, and paper birch scattered throughout the stand.  Potential old growth in the stand.
7	42200 - Natural White Pine	Medium Density Log	4.8	93	81-110	White and red pine mixed with aspen and red maple. An isolated stand with multiple lightning scars. Small amount of paper birch present.  Remote access surrounded by low wet and private ground.
9	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	81.9	100		Stand consists of varying conifer species and a few select deciduous species. Stand is low and wet in many places.
10	42200 - Natural White Pine	Medium Density Log	14.3	95	141-170	Mixed stand of white pine, aspen, and red maple along a ridge. Scattered beech with hemlock and red pine throughout the stand.  Remote stand with no access. Surrounded by low wet ground and CR 418 bridge weight limit.
12	42200 - Natural White Pine	Medium Density Log	5.4	99	171-200	Large overstory white pine with smaller red pine mixed within. Stand is an isolated island with remote access.  Access issues with CR 418 bridge weight limit.
19	42200 - Natural White Pine	Medium Density Log	14.7	91	141-170	Island of white pine in the middle of a boggy wet area. Thick balsam fir understory.
21	42200 - Natural White Pine	Medium Density Log	30.6	89	171-200	Isolated island with cedar along edges of the ridge. No access, surrounded by low wet ground and falls in the Two Hearted River Plan.
28	42200 - Natural White Pine	Medium Density Log	97.3	93	171-200	Some scattered aspen throughout stand along with some paper birch. White pine in the stand are large and limby.  Access is through Michigan Nature Conservancy.
32	6122 - Black Spruce	High Density Pole	22.5	109		Remote stand with no easy access, and the timber quality is very poor. A few paper birch scattered throughout the stand.  Falls in the Natural River plan.
35	42210 - Natural Red Pine	Medium Density Log	38.7	111	171-200	Some red oak along the ridge that is the stand along with some aspen and paper birch that is dying out.  There is an old road through the stand, but it is hard to access due to some low wet areas.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	6122 - Black Spruce	Medium Density Pole	6.3	99	141-170	A remote stand that needs a road to it. Some mixed red maple along edges of the stand.  Natural River plan applies.  CR 418 bridge weight limit applies as well.
39	42200 - Natural White Pine	Medium Density Log	48.2	98	141-170	Stand is a ridge which consists of decent white and red pine mixed with paper birch, red maple, and black spruce. Stand has large rolling hills it.
41	6122 - Black Spruce	Medium Density Pole	20.8	97		Stand is a very low wet area that has very thick timber. Access would be very difficult.
43	6122 - Black Spruce	Medium Density Pole	12.1	91		Stand appears to be stunted, with some tree mortality. Stand is a mixed bag of lowland conifers with scattered red maple and paper birch throughout.
44	42200 - Natural White Pine	Medium Density Log	2.4	103	111-140	Island of white pine with black spruce and paper birch scattered throughout. Stand is old and appears to be on the decline in health.
45	42200 - Natural White Pine	Medium Density Log	2.6	93	111-140	Island of white pine with paper birch dying out and black spruce scattered throughout and along the edges. Some red maple scattered within stand.  Remote access to the stand and CR 418 bridge weight restrictions.
46	42200 - Natural White Pine	Medium Density Log	2.0	98	141-170	Island of white pine surrounded by low wet areas. Some paper birch and black spruce scattered through the stand.  No access to the stand.
48	42200 - Natural White Pine	High Density Log	8.1	104	141-170	Island of white pine surrounded by low wet ground. Difficult to access. Some scattered red pine throughout the stand. The paper birch is dying out in the stand.
49	42210 - Natural Red Pine	Medium Density Pole	5.5	96	141-170	This stand is a small ridge of timber with no access because being surrounded by low wet ground. Volumes in the stand appear to be somewhat lower than it should be for a typical red pine stand of his age.
50	6122 - Black Spruce	High Density Pole	10.6	86	51-80	Stand is dominantly black spruce with some tamarack scattered throughout. Low basal areas in and around some of the openings within the stand.
52	42210 - Natural Red Pine	Medium Density Pole	1.8	96	111-140	Stand is a ridge of nice red pine. Some scattered paper birch in stand with a small amount of red maple.  No access to stand except through private due to being surrounded by low wet ground.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	6120 - Lowland Cedar	Medium Density Pole	35.4	109		Stand has a mixed bag of species. Mainly coniferous with a decent amount of deciduous species. This stand is old and is beginning to die, it is surrounded by low wet ground.
55	6122 - Black Spruce	Medium Density Pole	20.5	99	81-110	Stand is very low and wet. It has some white pine scattered throughout. Very tough access.  CR 418 bridge weight restrictions.
56	42210 - Natural Red Pine	Medium Density Log	13.3	99	171-200	Stand is along a steep ridge with poor access. There is some very nice utility pole sized red pine in the stand. There is some aspen and paper birch present but appears to be dying out.
58	42210 - Natural Red Pine	High Density Log	12.2	99	200+	Some balsam fir and cedar scattered throughout stand.  This stand is difficult to access due to surrounding private and the Natural River Plan.
59	6122 - Black Spruce	Medium Density Pole	6.2	99		
62	42200 - Natural White Pine	Medium Density Log	6.1	96	81-110	Stand is located next to the river and is difficult to access the lower ground and access would have to be through private property.  Black spruce is coming up in the stand with white cedar, and some red pine scattered throughout. Some scattered paper birch present but is dying out.
64	6122 - Black Spruce	High Density Pole	4.6	99	81-110	Stand is next to the Two Hearted river and access is through private property. Surrounded by a treed bog.  Follow Natural River Plan.
65	42210 - Natural Red Pine	High Density Log	44.6	99	141-170	Some paper birch and aspen present in the stand but is beginning to die out. The stand a ridge surrounded by a treed bog.  Access remote due to weight restriction
66	42200 - Natural White Pine	High Density Log	9.8	94	141-170	Stand has some scattered aspen in it dying out. Stand is surrounded by low wet ground making access difficult. Access would be through private and it is near the Two Hearted River.
68	6127 - Lowland Pine	High Density Log	2.2	106	81-110	Thick understory along the river consisting mainly of black spruce and balsam fir. Stand is comprised of coniferous species with yellow birch and red maple as well. Low wet ground within stand makes for hard access. Stand is also located at the base of a ridge.
70	42200 - Natural White Pine	Medium Density Log	9.3	97	141-170	Stand is an island in the middle of a treed bog. There is some white cedar scattered throughout the stand. Difficult access.

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Newberry Mgt. Unit

## Report 8 – Forested Stands

Compartment: 016  
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	42200 - Natural White Pine	Medium Density Log	7.8	101	111-140	Island of white pine with black spruce along river. Low wet ground.  No or difficult access through private.
73	6122 - Black Spruce	Medium Density Pole	16.1	99		Ground is extremely wet and there is no access to the stand. Stand is solely black spruce.
75	6122 - Black Spruce	Medium Density Pole	18.3	99		Wet stand of black spruce. Very sparse white pine scattered throughout the stand.  No access due to weight limit of bridge on CR 418.
77	42200 - Natural White Pine	Medium Density Log	36.2	96	81-110	Some scattered paper birch scattered throughout stand comprised mainly of white pine.  Access issues due to bridge weight limit on CR 418.
78	6122 - Black Spruce	High Density Pole	42.4	94		Stand is in low wet area. There is some scattered white pine mixed in.  Access issue due to weight limit on CR 418 bridge.
79	42200 - Natural White Pine	Medium Density Log	76.1	91	111-140	There is good diversity in this stand. Some scattered black cherry and jack pine in the stand.  Access issue due to weight limit of CR 418 bridge.  Natural River Plan
80	4311 - Pine, Aspen Mix	Medium Density Pole	20.7	95		Strip of aspen within an area of white pine. White pine is limby and of poor quality. Aspen is in good shape and has not appeared to being dying out yet.
81	6122 - Black Spruce	Medium Density Pole	13.5	100		Mixed stand with some small amounts of paper birch and white cedar scattered throughout. Stand looks old and appears to be dying out.
83	42200 - Natural White Pine	High Density Log	43.3	103	111-140	White pine in the stand have poor form and are limby and brushy. Some scattered red pine along the river. There is aspen and paper birch present and dying out.  CR 418 bridge weight restrictions and Natural River Plan.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	50 - Water	4.8	Unspecified	Unspecified	
2	50 - Water	2.1	Unspecified	Unspecified	
3	622 - Lowland Shrub	16.0	Unspecified	Unspecified	
5	622 - Lowland Shrub	9.7	Unspecified	Unspecified	
8	622 - Lowland Shrub	32.6	Unspecified	Unspecified	
11	622 - Lowland Shrub	6.9	Unspecified	Unspecified	
13	622 - Lowland Shrub	20.2	Unspecified	Unspecified	
14	622 - Lowland Shrub	19.8	Unspecified	Unspecified	
15	622 - Lowland Shrub	2.3	Unspecified	Unspecified	
16	622 - Lowland Shrub	14.9	Unspecified	Unspecified	
17	50 - Water	8.7	Unspecified	Unspecified	
18	6224 - Treed Bog	6.4	No	Low	
20	622 - Lowland Shrub	2.0	Unspecified	Unspecified	
22	622 - Lowland Shrub	11.9	Unspecified	Unspecified	
23	622 - Lowland Shrub	26.4	Unspecified	Unspecified	
24	50 - Water	21.4	Unspecified	Unspecified	
25	50 - Water	3.0	Unspecified	Unspecified	
26	50 - Water	16.6	Unspecified	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
27	622 - Lowland Shrub	113.9	Unspecified	Unspecified	
29	622 - Lowland Shrub	3.5	Unspecified	Unspecified	
30	622 - Lowland Shrub	1.1	Unspecified	Unspecified	
31	50 - Water	30.8	Unspecified	Unspecified	
33	6224 - Treed Bog	2.9	Unspecified	Unspecified	
34	622 - Lowland Shrub	22.5	Unspecified	Unspecified	
37	622 - Lowland Shrub	16.6	Unspecified	Unspecified	
38	622 - Lowland Shrub	6.2	Unspecified	Unspecified	
40	50 - Water	2.1	Unspecified	Unspecified	
42	50 - Water	15.4	Unspecified	Unspecified	
47	622 - Lowland Shrub	109.1	Unspecified	Unspecified	
51	622 - Lowland Shrub	10.9	Unspecified	Unspecified	
54	622 - Lowland Shrub	6.8	Unspecified	Unspecified	
57	50 - Water	2.1	Unspecified	Unspecified	
60	50 - Water	2.6	Unspecified	Unspecified	
61	50 - Water	2.4	Unspecified	Unspecified	
63	622 - Lowland Shrub	9.9	Unspecified	Unspecified	
67	622 - Lowland Shrub	13.6	Unspecified	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
69	6224 - Treed Bog	8.3	No	Low	
72	50 - Water	120.4	Unspecified	Unspecified	
74	622 - Lowland Shrub	2.7	Unspecified	Unspecified	
76	6220 - Alder/willow	7.6	No	Low	
82	6220 - Alder/willow	10.4	No	Low	Stand is in the flood plain of the river and has some larger diameter trees in it but is comprised mainly of Tag Alder along the river bottom.