



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42094

Entry Year 2017

Acreage: 2,362

County Luce

Management Area: Danaher Kingston Outwash

Revision Date: 2015-08-21

Stand Examiner: Kristen Matson

Legal Description:

T47N R12W Sections 18, 19, 30 and 31

Identified Planning Goals:

Timber management, wildlife habitat and recreation. Maintain the existing mixtures of forest cover types and enhance age class diversity through continued timber harvest and cultivation treatments.

Soil and topography:

Level to rolling sandy outwash plains (Danaher Plains).

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

The compartment is a solid block of state owned land surrounded by state owned land on the west, south and east. Corporate and non-industrial private lands border the compartment to the north.

The compartment has primarily been managed for timber production, wildlife and recreation. The area is heavily used for blueberry picking.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Fisheries Values: None

Fisheries Concerns: A small drainage in the southeast corner of the compartment is labeled as a High Priority Trout stream. After investigating with the stand examiner it was determined that this section of High Priority Trout stream is marked in error and not a stream channel at all. Even under the highest of levels of runoff and water levels, this area would not experience flowing surface water. The stand examiner is working to have this error corrected to show accuracy in the layer. No other waterbodies exist in this compartment so Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 94 lies in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and is part of the Danaher plains opening-pine complex. The compartment is in the Danaher-Kingston Management Area and eastern bluebird, Kirtland's warbler, red crossbill, sharp-tailed grouse, spruce grouse and 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 aspen. Aspen is more predominate in the northern part of the compartment.

In this pine dominated landscape, 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 uncommon species in 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. Wildlife species potentially using this compartment include white-tailed deer, ruffed grouse, black bear, coyote, sharp-tailed grouse and Kirtland's warbler.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Collingwood and Utica shales and the Trenton and Black River formations subcrop below the glacial drift. The Trenton and Black River are quarried for limestone/dolomite in the UP.

There are no gravel pits in the area, but there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Primary access to the compartment is County Road 421 and/or County Road 422. They are routinely maintained by Luce County Road Commission during the summer months. The Danaher Plains Road is another way to access the compartment from the west. There are several sandy tow tracks throughout the compartment.

Survey Needs:

none

Recreational Facilities and Opportunities:

Recreational facilities include snowmobile and ORV trails. Hunting, wildlife viewing, camping and blueberry picking opportunities also exist within the compartment.

Fire Protection:

The compartment has a good road system for suppression activities. Large fire potential is high in this area because of the jack pine fuel type. Scattered large openings may assist in suppression, but still allow fires to have very high rates of spread. Response time to this area is moderate to high. Private property surrounding the compartment could be at risk to damage from a wildfire. There has been prescribed burns in and near this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

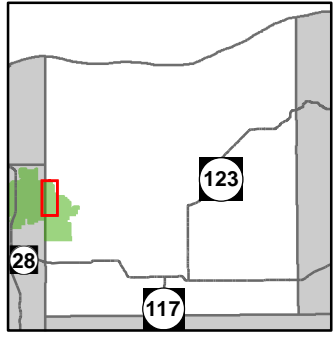
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

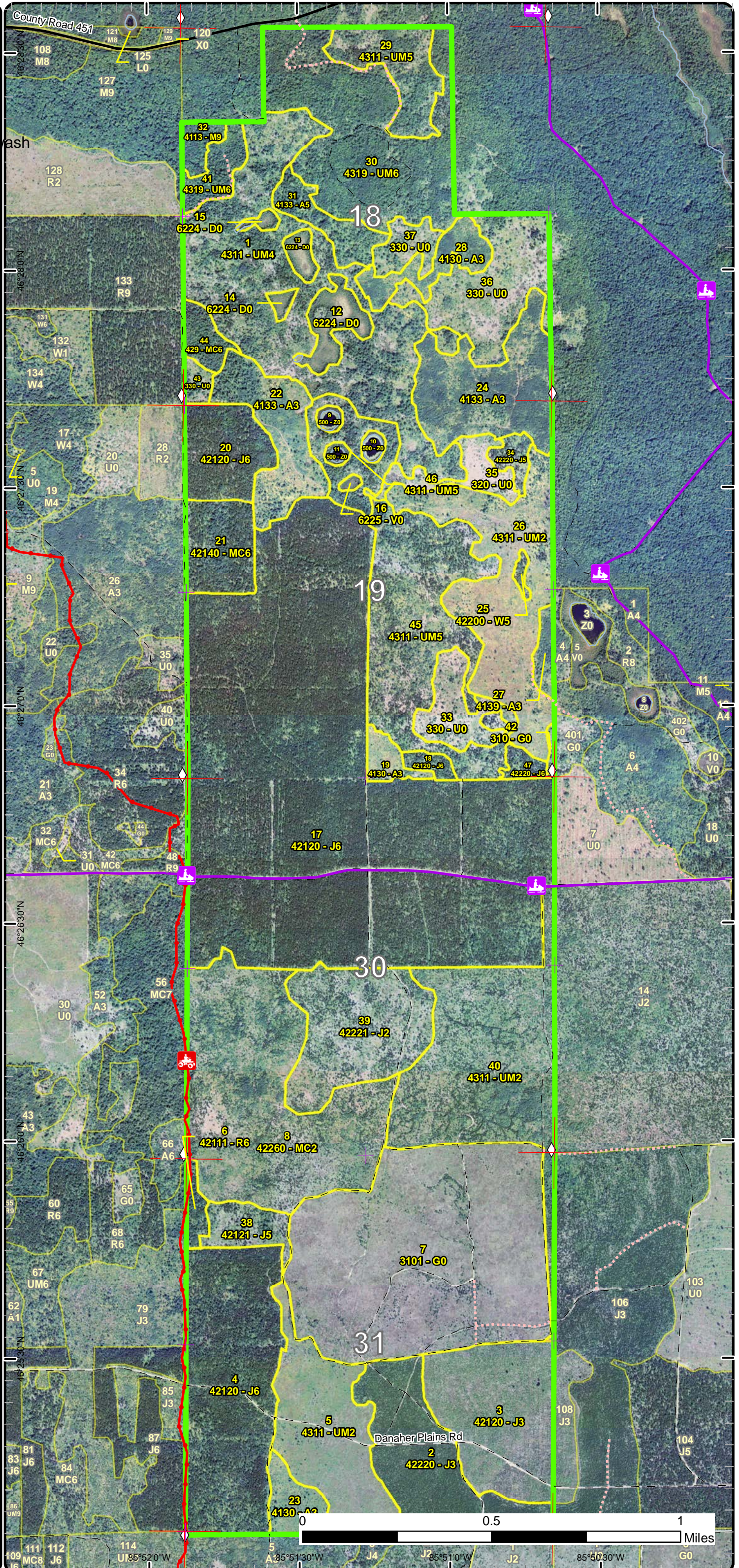
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Stand Boundary Map

Compartment: 94
 T47N R12W 18, 19, 30, 31
 County: Luce
 Unit: Newberry
 Mgmt Area: Danaher Kingston Outwash
 YOE: 2017
 Acres: 2362 GIS Calculated
 Examiner: Kristen Matson
 Map Revised: 3/31/2016
 Map Phase: Post-Review



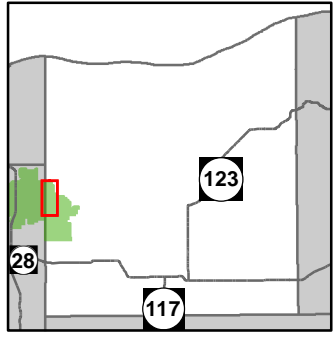
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◆ Field Grade GPS Corners
- 🚲 ORV Trails
- 🚲 Snowmobile Trails
- ORV License & Trail Permit
- Designated ATV
- Designated Snowmobile Trails
- Paved Roads
- Poor Dirt Roads
- - - Closed Roads
- Rivers
- ▭ Compartment Boundary
- ▭ Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



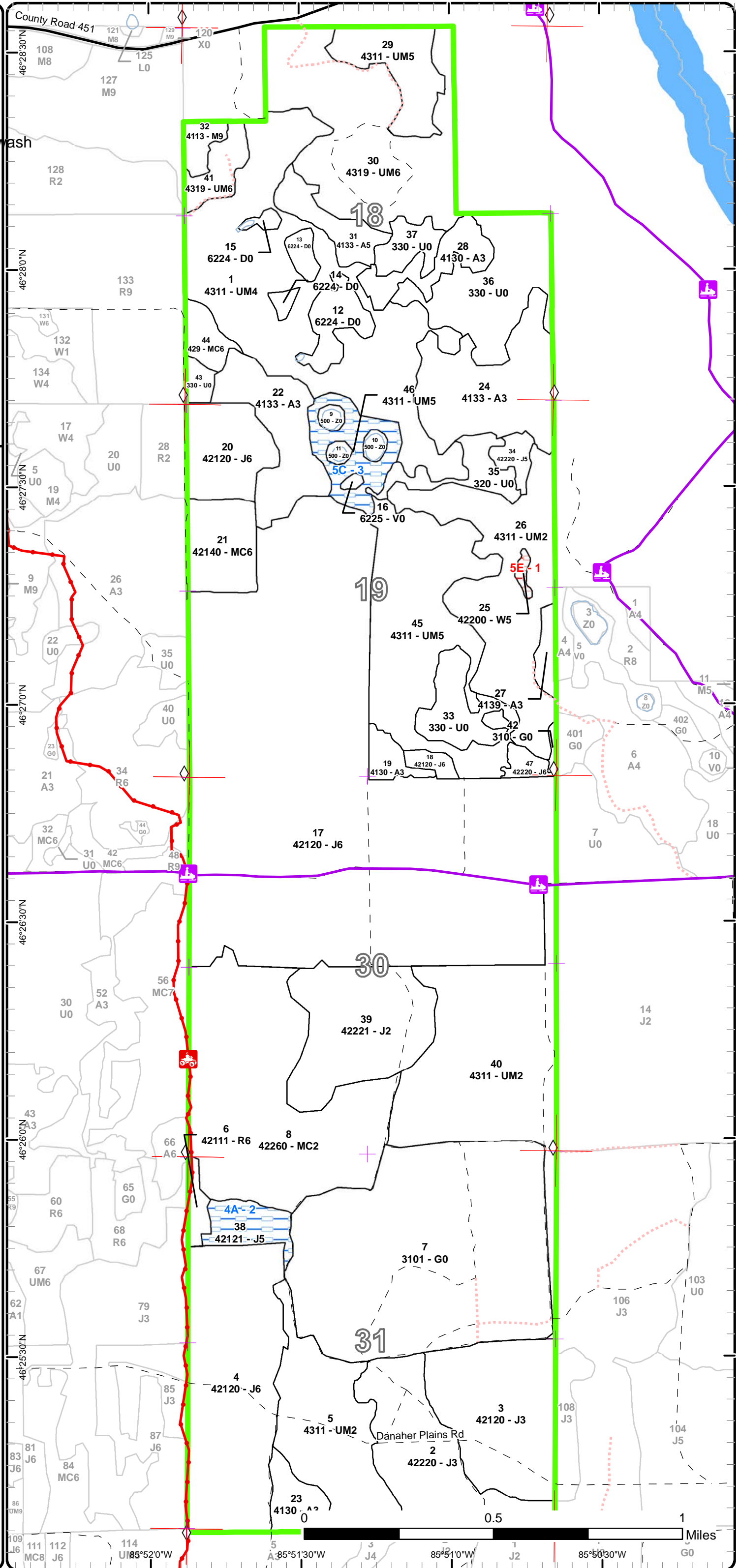
111 MC8 J6 112 J6 114 U185°52'0"W 5 A85°51'30"W J4 J2 85°51'0"W J2 85°50'30"W G0

Special Conservation Areas & Site Conditions Map

Compartment: 94
 T47N R12W 18, 19, 30, 31
 County: Luce
 Unit: Newberry
 Mgmt Area: Danaher Kingston Outwash
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- Miris Corners
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- ORV Trails
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- Designated ATV
- Designated Snowmobile Trails
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Special Conservation Areas
- Cold Water Streams
- High Priority Trout Stream Buffer





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	66	81	7	0	18	0	0	0	0	0	0	0	0	0	0	0	0	172
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	218	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	218
Jack Pine	0	0	76	140	0	654	10	16	0	0	0	0	0	0	0	0	0	0	896
Low-Density Trees	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Natural Mixed Pines	0	0	0	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
Planted Mixed Pines	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	29
Red Pine	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Treed Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Upland Conifers	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	92	0	126	143	100	0	13	24	0	0	0	0	0	0	0	0	156	654
Upland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Total	361	158	157	426	143	772	10	76	24	0	0	0	0	0	0	0	0	164	2291



Report 2 – Treatment Summary

Newberry Mgt. Unit

Compartment 94

Year of Entry:

Acres of Harvest

Total Compartment Acres: 2,362

Commercial Harvest - 31
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood	0	8	0	0	0	0	0	0	0	8
Upland Conifers	10	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	13	0	0	0	0	0	0	0	0	13
Total	24	8	0	0	0	0	0	0	0	31

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	31	0	0	0	0	0	0	0	0	31
Next Step	0	0	0	0	0	31	0	0	0	31
Total	31	0	0	0	0	31	0	0	0	62

S
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Name

Acres

Stand
CoverTypeSize
DensityStand
AgeBA
RangeTreatment
TypeTreatment
MethodCover Type
ObjectiveAge
StructureApproval
Status

#Type!

Habitat Cut:**Site Condition:**PrescriptionSpecs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date:

**Total Treatment
Acreage Proposed:**

0.0

Report 5 – Site Conditions

Newberry Mgt. Unit
Kristen Matson : Examiner

Compartment: 94
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	4A	5C	5E
		With Condition	Not Available				
171	171	0	0	Aspen			
1	1	0	0	Bog			
218	218	0	0	Herbaceous Openland			
896	880	16	0	Jack Pine	16		
93	93	0	0	Low-Density Trees			
153	153	0	0	Natural Mixed Pines			
8	8	0	0	Northern Hardwood			
29	29	0	0	Planted Mixed Pines			
6	6	0	0	Red Pine			
26	26	0	0	Treed Bog			
10	10	0	0	Upland Conifers			
725	701	24	0	Upland Mixed Forest		24	
16	16	0	0	Upland Shrub			
7	7	0	0	Water			
2	0	0	2	White Pine			2
2,362	2,320	40	2	Total Forested Acres	16	24	2
	98%	2%	0%	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
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	4A: No Markets Available for these Forest Products	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sparsely stocked. Harvest next entry with adjacent stand.							

Report 5 – Site Conditions

Newberry Mgt. Unit
Kristen Matson : Examiner

Compartment: 94
Year of Entry: 2017

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest when doing adjacent stands.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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Mgt. Unit

Report 8 – Forested Stands

Compartment:
Year of Entry:



Level 4
Cover Type

Size
Density

Acres

Stand
Age

BA
Range

General
Comments:

#Type!



Stand Cover Type

Acres

Managed
Site

General Comments:

#Type!
