



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42100

Entry Year 2019

Acreage: 2,851

County Luce

Management Area: Fox River Complex

Revision Date: 2017-08-18

Stand Examiner: Keith Magnusson

Legal Description:

T45N R12W, sections 2-5, 10, 11, 14, 28, 29, 31, 34

Identified Planning Goals:

Recreation, fisheries, wildlife and timber production are the main uses of the State land within this area. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses through proper management. Forest treatments prescribed will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

Soil and topography:

The topography within the compartment ranges from rolling uplands to flat swampland. The upland soils are mostly a McMillan/Trenary Complex or Kalkaska type that supports upland hardwood tree species. The lowland areas are mostly a Lupton/Tawas/Carbondale muck complex that supports lowland conifer tree species.

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

All of the State ownership within the compartment is surrounded by privately owned land with the exception of the northwest corner. Much of the private land has permanent residences, farms, vacation homes or hunting camps on the property. Manistique Lake is along the south edge of the compartment. This lake is popular for its boating, fishing and general recreating. Fishing also occurs in the East Branch Fox River and Manistique River, both of which are within this compartment.

Access along the East Branch Fox River corridor is limited due to the lowland swamp conifer complex that surrounds it. Development is minimal and use in this area is low (primarily used for deer hunting) due to its remote lowland nature. There have been some recent timber harvests on private land in this area, but access is limited to wintertime only. Hunting occurs throughout the compartment, primarily for deer. Timber management has historically occurred throughout the compartment across all ownerships.

Unique Natural Features:

Unique features within this compartment include Manistique Lake, East Branch Fox River, Manistique River and the winter deer yards within this area. Another unique feature is the large hardwood knob, "hardwood island", in the northeast corner of the compartment.

MNFI element occurrences: goshawk, red-shouldered hawk, osprey, bald eagle, great blue heron, loon, Frigga fritillary, and lake herring/cisco. There is potential for spruce grouse, moose, wolf, wood turtle, Blanding's turtle, incurvate emerald and ebony boghaunter, yellow rail, least bittern, American bittern, marshwren and black tern. MNFK also lists the potential for plant species such as fir clubmoss, pondweed, calypso orchid, Lapland buttercup, ram's head lady slipper, round leaved orchid and limestone fern.

Archeological, Historical, and Cultural Features:

The Bureau of History does not list any historical features.

Special Management Designations or Considerations:

Deer wintering complex, high priority trout stream, Manistique River habitat corridor, Fox Natural River.

Watershed and Fisheries Considerations:

Fisheries Values: Excellent

Fisheries Concerns: This compartment is located in the Northern Lake Michigan Management Unit. The East Branch Fox River flows through the northern section of this compartment and is part of the Fox River Natural River System. The section below M-28 is a designated trout stream, but warms the closer it gets to the confluence with the Fox River making it marginally suitable for trout. Any treatments within the management zone should follow guidelines identified in the Natural River Plan. Some sections of this compartment are located adjacent to Manistique Lake. In stands where treatments are occurring, Fisheries Division would like to see tree tops (hardwood and coniferous) left to be utilized in a lake habitat project being proposed on Manistique Lake. Tree tops may be left near landings for ease of movement during the

wintertime months.

Wildlife Habitat Considerations:

Compartment 100 lies in southwestern Luce county along the border of the Seney Sand Lake Plain ecological sub-subsection and St. Ignace ecological sub-subsection. The compartment is in the Fox River Management Area and black bear, goshawk, snowshoe hare, spruce grouse, and white-tailed deer are featured species. Most of the compartment lies within and along the McMillian-Black Creek deer wintering complex which supports high numbers of deer during stressful winter periods. The compartment has a substantial component of low ground with mainly swamp conifers and northern hardwoods in the northern areas of the compartment and swamp hardwoods, cedar, and swamp conifers in the southern portions. Both upland and lowland hardwood stands have good species diversity. Pre-settlement vegetation patterns are expected to be consistent with the current landscape in this region of the subsection.

Wildlife objectives will be achieved by the retention of hard and soft mast producing trees, wildlife den and nest trees, snags, and the preservation of conifer components in aspen and hardwood stands. Cedar and hemlock will be left throughout the compartment due to the existence of the deer wintering complex and harvests will occur during winter to benefit wintering deer. White-tailed deer, gray wolves, coyote, bobcat, black bear, fisher, marten, otter, mink, and raptors are noteworthy wildlife species likely using this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Luce County

There is a sand/gravel pit in Section 13, and there is good sand and gravel potential within the compartment on the uplands. There is no known metallic mineral potential in this area, and there is no known potential for economic oil and gas production in the UP.

Vehicle Access:

The compartment can be accessed via several County Roads. Remote portions of the compartment can also be accessed by boat via use of Manistique Lake, Manistique River and the East Branch Fox River. Two track roads are found in the upland areas of the compartment, but much of the lowland stands are roadless.

Survey Needs:

A small amount of survey is needed for timber harvest.

Recreational Facilities and Opportunities:

Big Manistique Lake-North Side Access Site is in the compartment. Other recreation opportunities are hunting, wildlife viewing and fishing.

Fire Protection:

Large fire runs are not likely. Private property risk could be low, because of low intensity surface fires that may occur. Parts of the compartment are swamp types and not accessible by suppression equipment, but may not support high intensity fire.

Additional Compartment Information:

The following reports from the Inventory are attached:

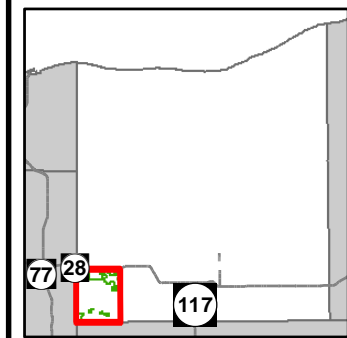
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

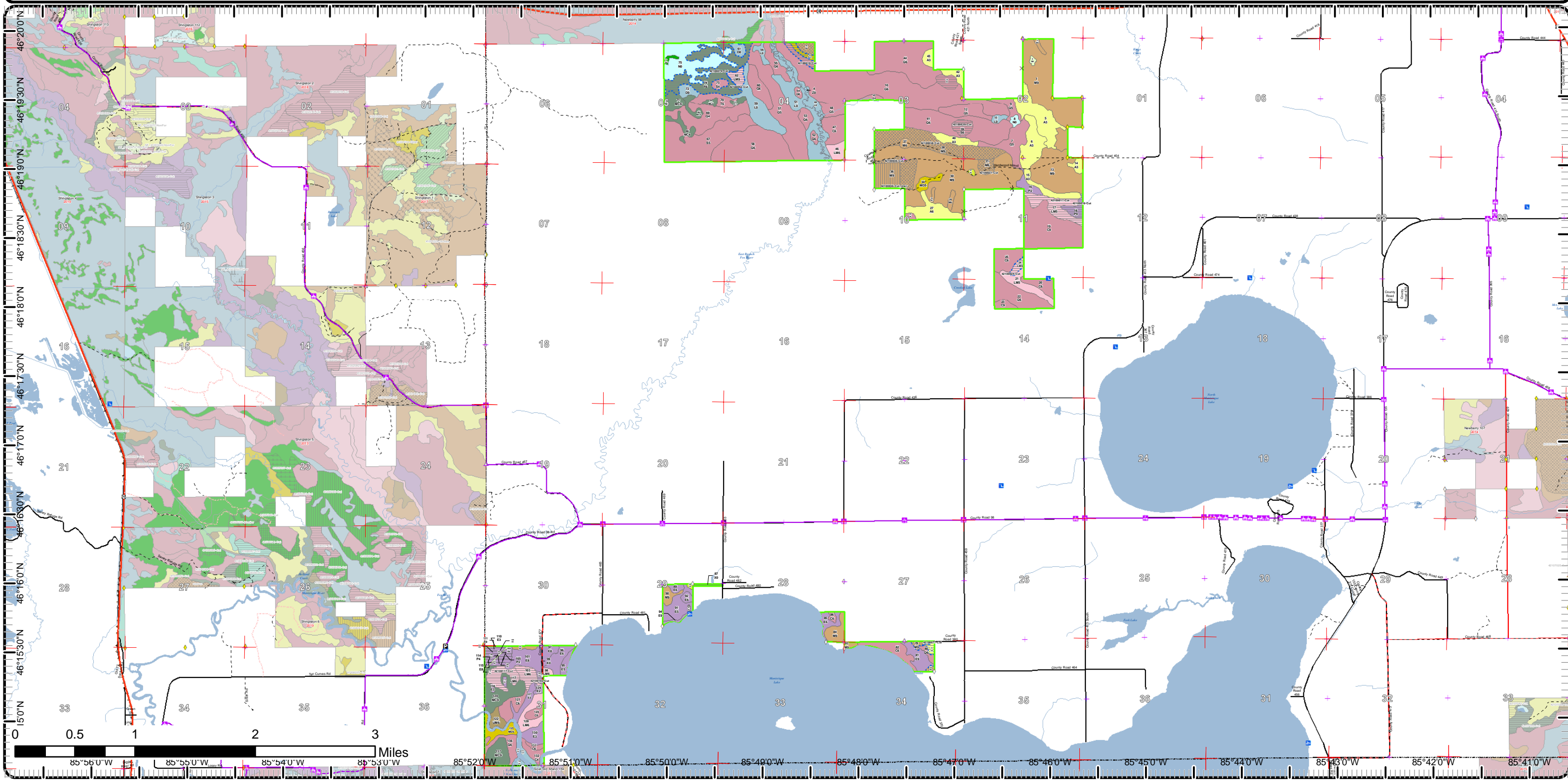
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

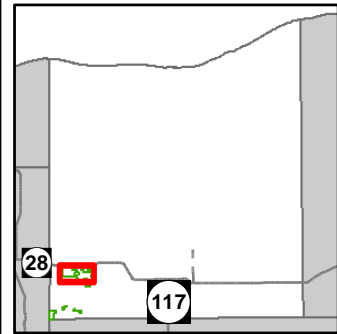
Compartment: 100
 T45N, R12W, Sec. 2-5, 10, 11,
 14, 28, 29, 31, 34
 County: Luce
 Unit: Newberry
 Mgmt Area: Fox River Complex
 YOE: 2019
 Acres: 2850.6 GIS Calculated
 Examiner: Keith Magnusson
 Map Revised: 12/14/2017
 Map Phase: Post-Review



- | | | |
|--------------------------------|-----------------------------------|---------------------------------|
| — Miris Corners | — Gravel Roads | 611 - Lowland Deciduous Forest |
| + Remonumented Section Corners | - - Poor Dirt Roads | 612 - Lowland Coniferous Forest |
| ◆ Survey Grade GPS Corners | — Streams | 613 - Lowland Mixed Forest |
| ◇ Field Grade GPS Corners | — Lakes and Rivers All | 122 - Roads/Parking Lot |
| — Counties | — Compartment Boundary | 310 - Herbaceous Openland |
| ✕ Gate | — Treatments with Site Conditions | 330 - Low Density Trees |
| — Dams | — Selection (Group, Single Tree) | 500 - Water |
| — Boating Access Site | — Clearcut (w/Reserves) | 622 - Lowland Shrub |
| — Snowmobile Trails | — Shelter Wood (w/Reserves) | 623 - Emergent Wetland |
| — Designated Snowmobile Trails | — 411 - Northern Hardwood | — Lakes |
| — Highway | — 413 - Aspen | |
| — Paved Roads | — 419 - Mixed Upland Deciduous | |
| — County Gravel Roads | — 422 - Natural Pines | |
| | — 423 - Other Upland Conifers | |
| | — 430 - Upland Mixed Forest | |

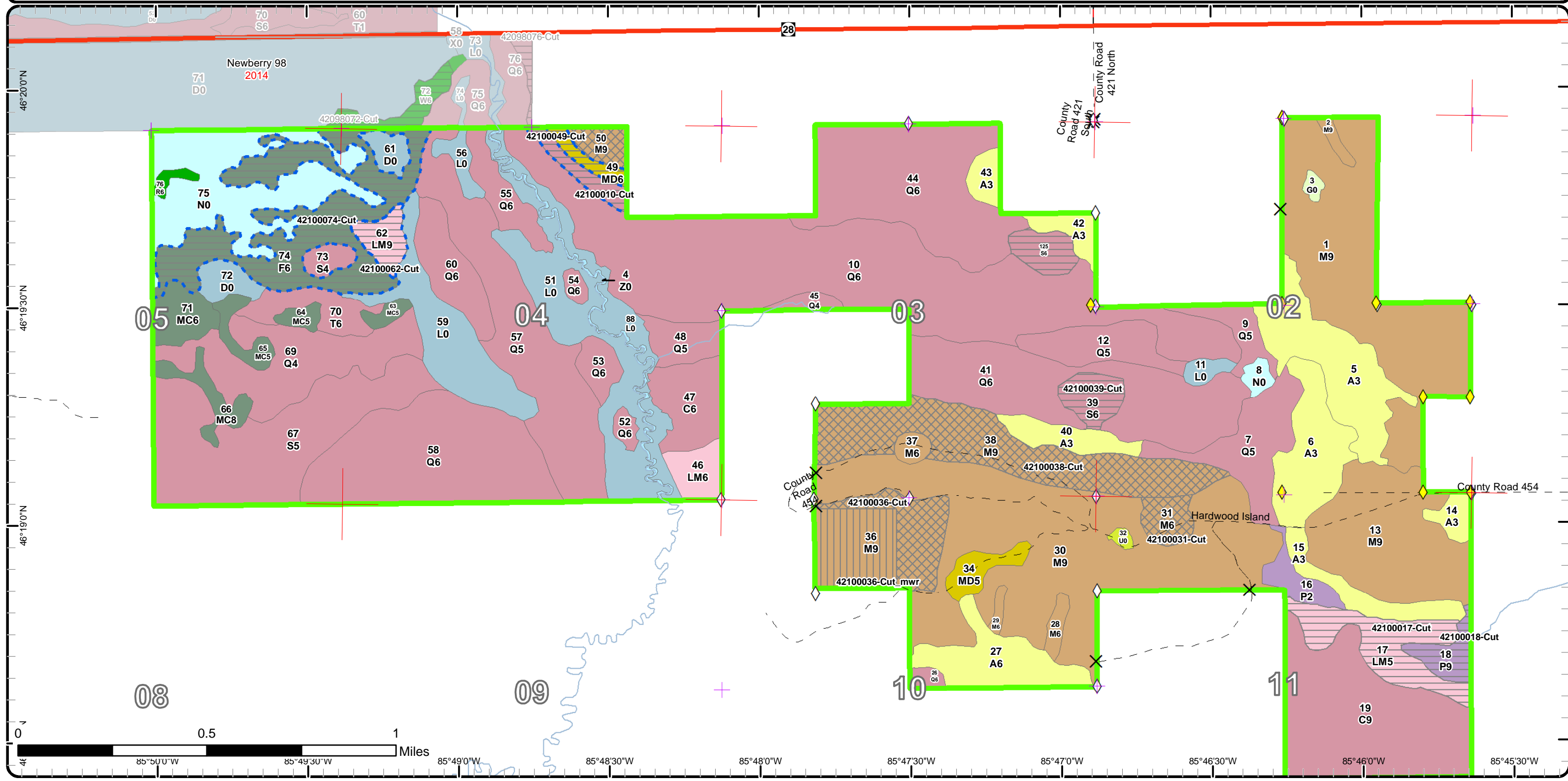


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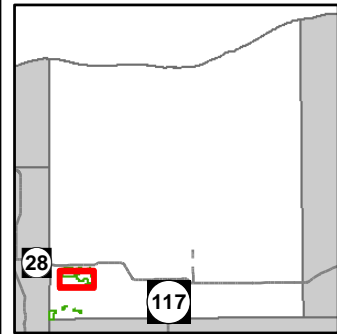


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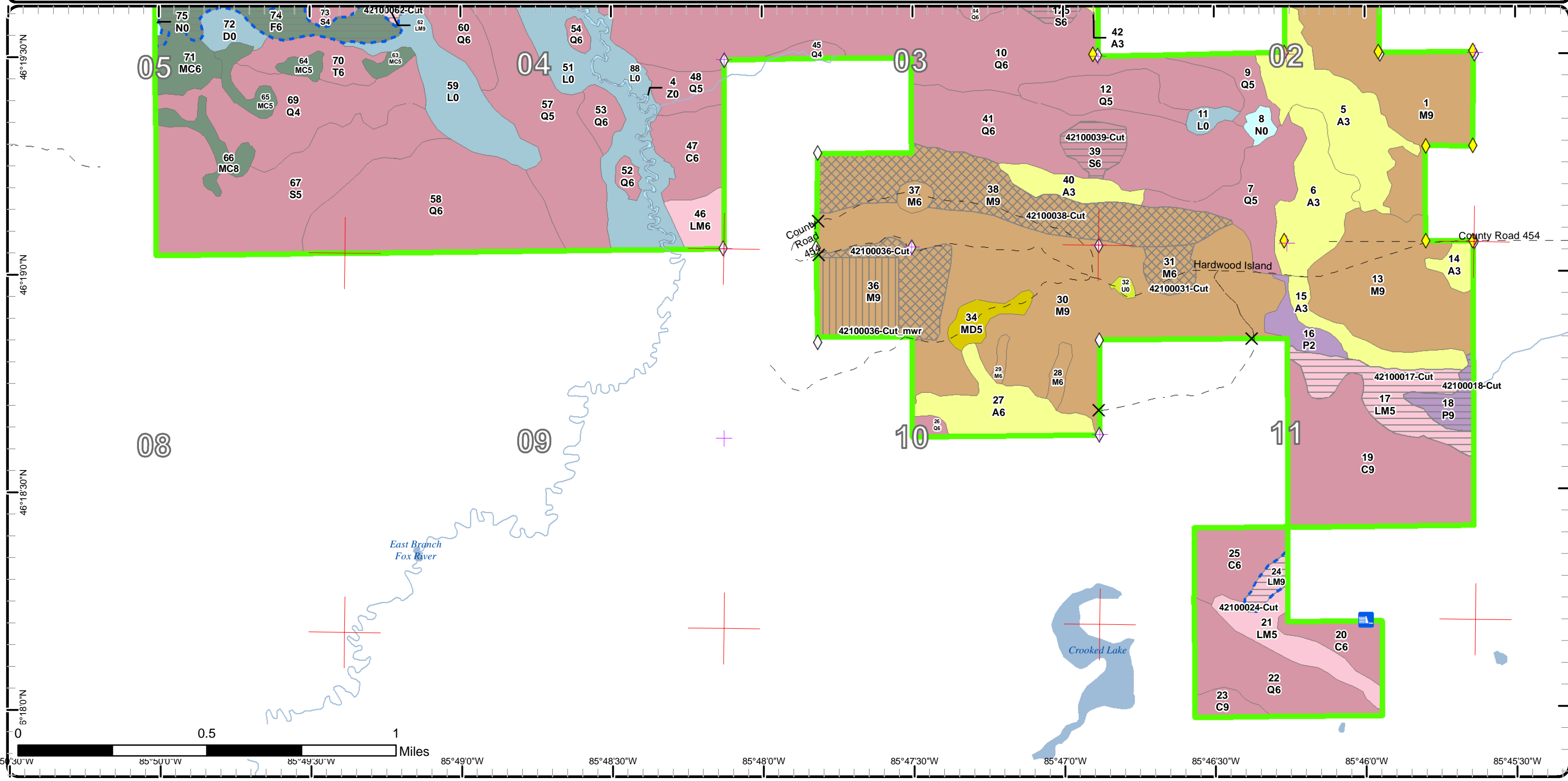


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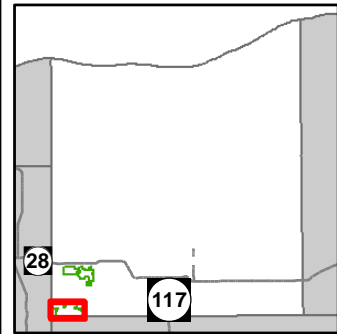


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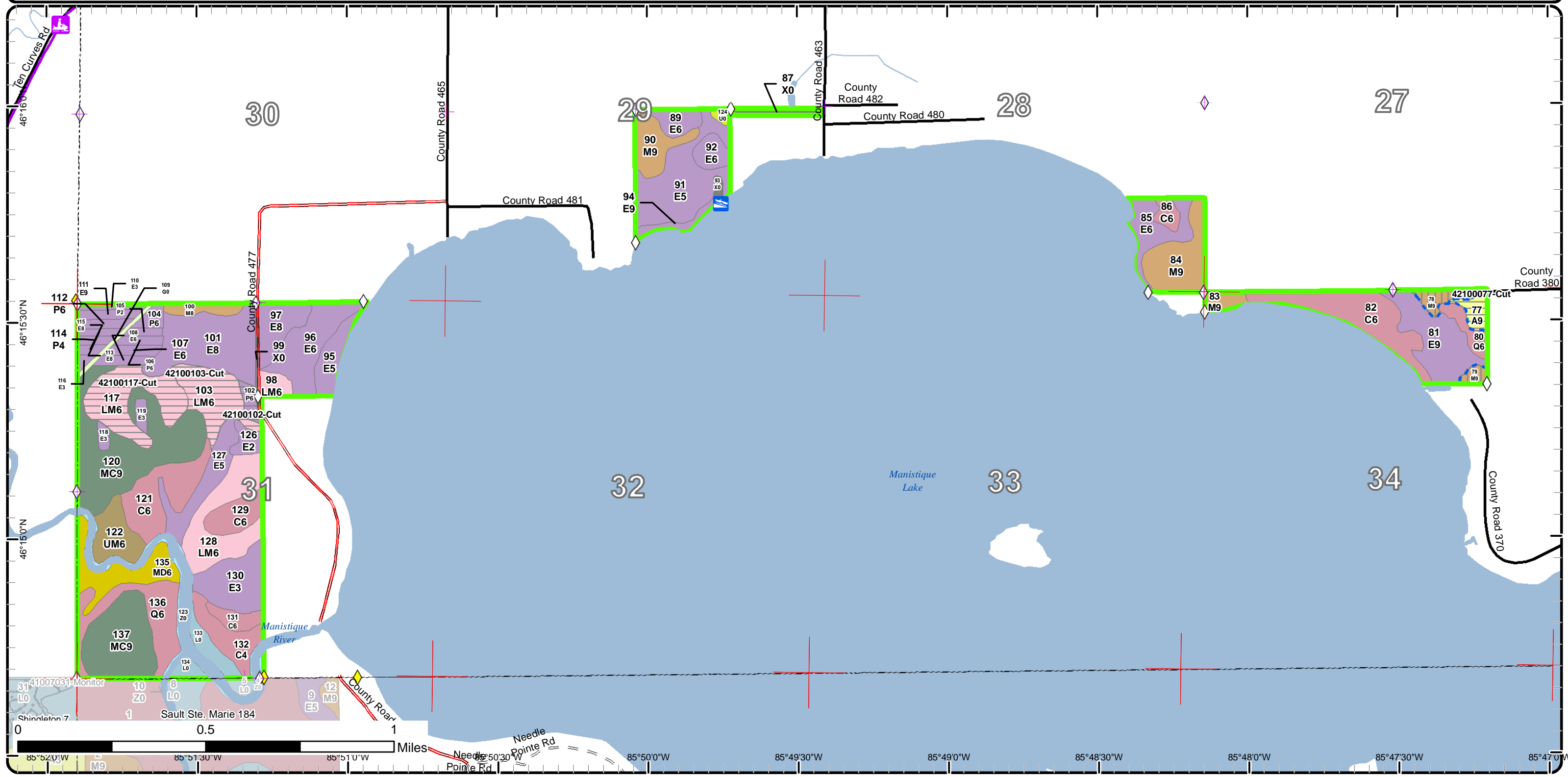


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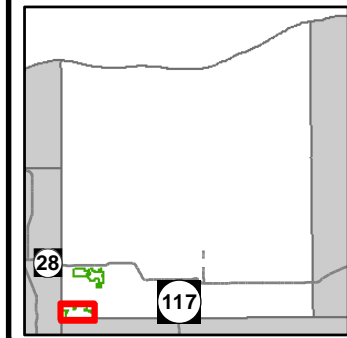
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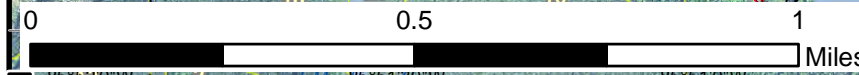
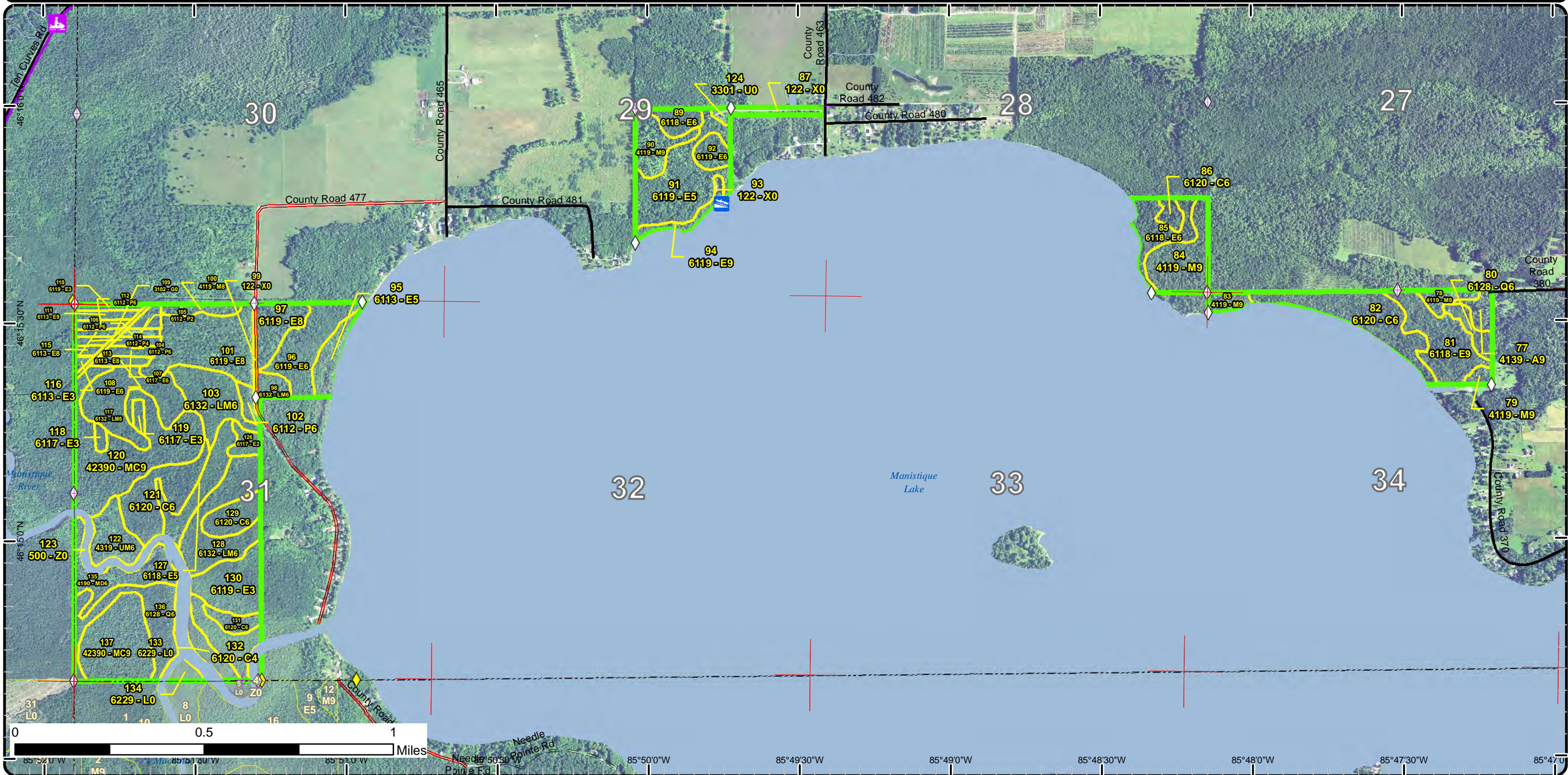


Stand Boundary Map

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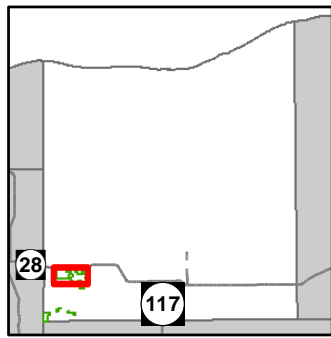
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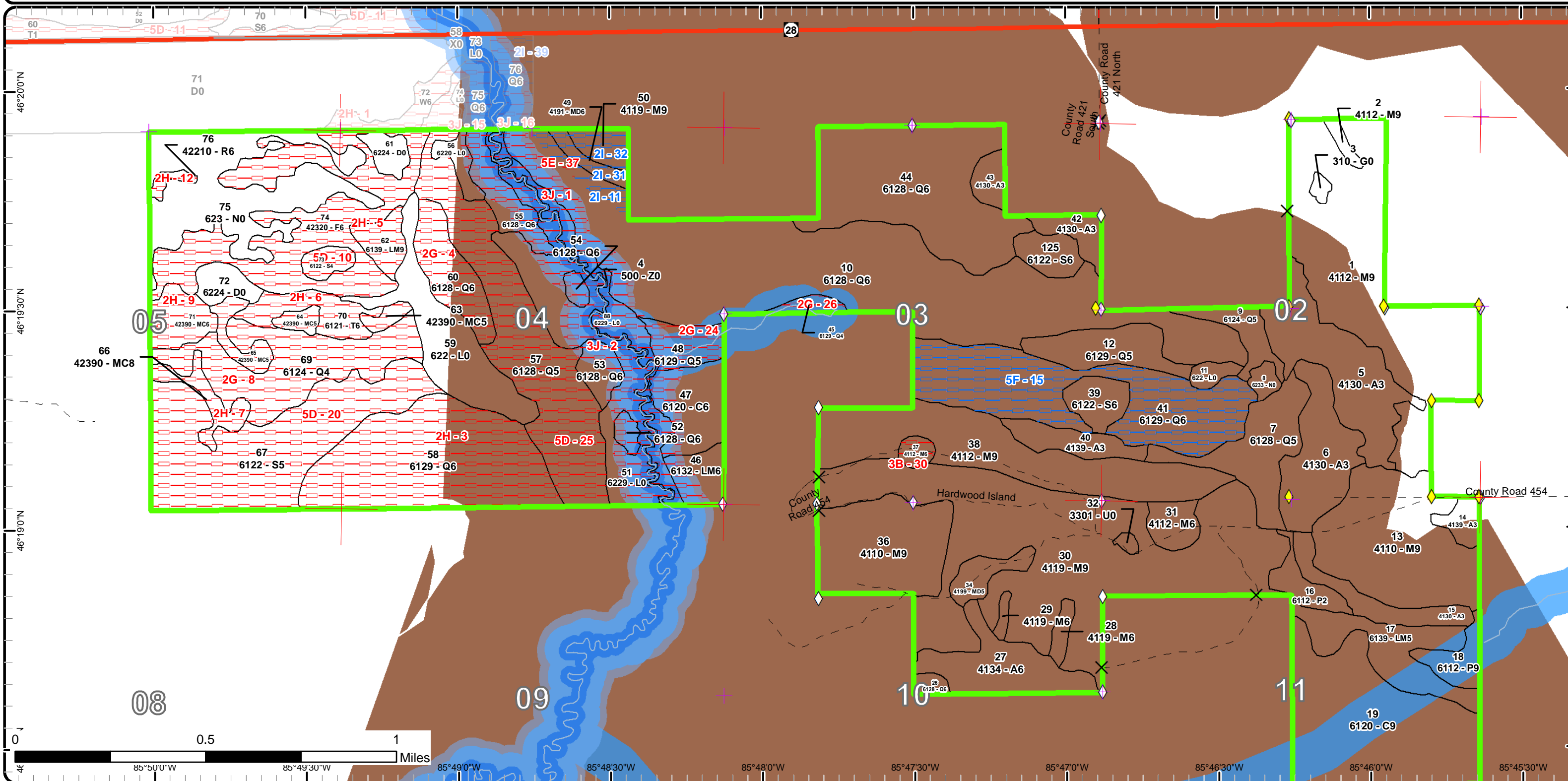
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Special Conservation Areas & Site Conditions Map

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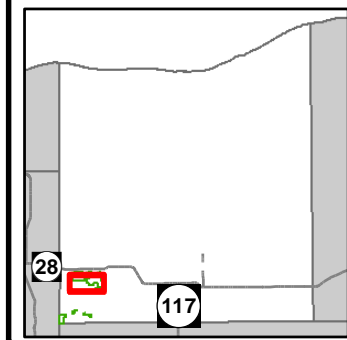


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- Poor Dirt Roads
- Streams
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Deer Winter Range

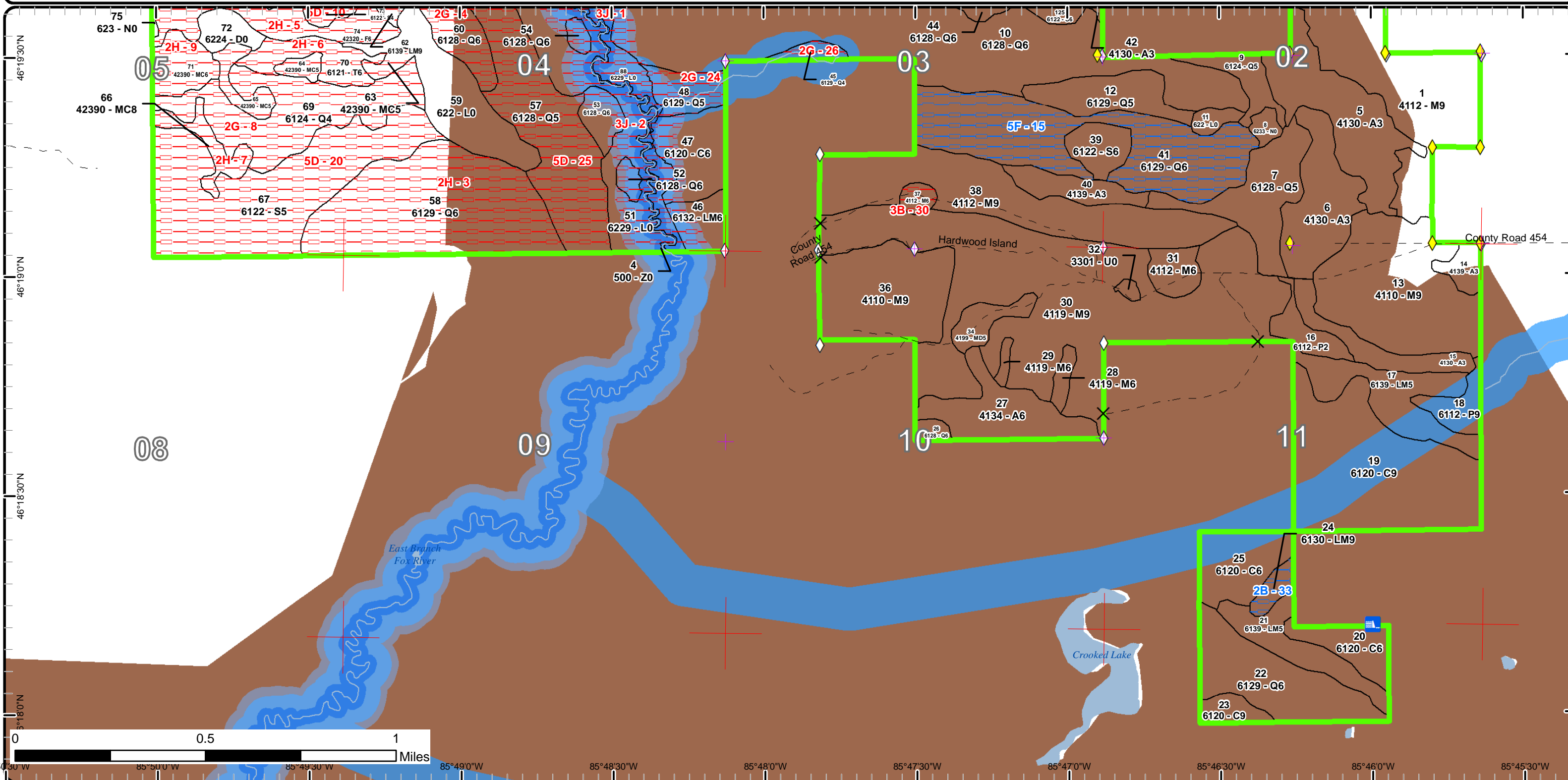


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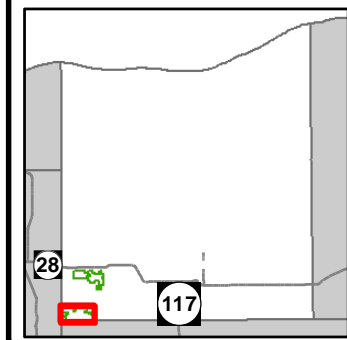


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- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



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| — Gravel Roads | — High Priority Trout Stream Buffer |
| — Streams | — Deer Winter Range |
| — Lakes and Rivers All | — Habitat Corridor |



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 100 Year of Entry 2019

Keith Magnusson : Examiner



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	73	50	48	0	0	0	0	0	4	0	0	0	0	0	0	0	0	175
Cedar	0	0	0	0	0	0	0	0	0	133	57	4	0	0	0	24	0	13	231
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	11	0	0	0	7	3	0	0	10	0	0	0	0	0	0	0	0	30
Lowland Conifers	0	0	0	0	0	0	0	70	423	107	107	137	0	0	23	0	0	0	866
Lowland Deciduous	0	0	0	0	15	11	0	0	0	12	30	0	0	0	0	19	0	87	174
Lowland Mixed Forest	0	0	0	0	0	0	0	0	22	66	34	0	0	0	0	0	0	20	142
Lowland Shrub	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	23	6	97	0	0	0	0	0	0	125
Marsh	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	6	0	14	0	0	0	0	0	0	10	30
Northern Hardwood	0	0	0	0	0	0	0	0	0	179	141	0	0	0	0	0	0	278	597
Red Pine	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Tamarack	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	17
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	40	61	0	0	0	0	0	100
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	83	0	0	0	0	0	0	0	82
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Total	266	84	50	48	15	18	3	70	468	544	475	278	61	0	23	43	0	408	2848



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 100
Total Compartment Acres: 2,851

Commercial Harvest - 250
 Harvests with Site Condition - 124
 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
Aspen	4	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	13	0	0	0	0	0	0	0	0	13
Lowland Conifers	8	0	0	0	0	0	0	0	0	8
Lowland Mixed Forest	84	0	0	0	0	0	0	0	0	84
Lowland Spruce/Fir	23	0	0	0	0	0	0	0	0	23
Mixed Upland Deciduous	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	120	0	0	35	0	0	0	0	155
Upland Spruce/Fir	83	0	0	0	0	0	0	0	0	83
Total	220	120	0	0	35	0	0	0	0	375

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	375	0	0	0	0	0	0	0	0	375
Next Step	0	0	0	0	0	0	375	0	0	375
Total	375	0	0	0	0	0	375	0	0	749



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
72	42098072-Cut	10.9	42200 - Natural White Pine	Poletimber Well	99	1-50	Harvest	Clearcut with Retention	4220 - Natural White Pine	Two-Aged	Proposal
Habitat Cut: No			Site Condition: Blocked by Obstacle								
<u>Prescription</u> Harvest all trees except red and white pine, and cedar and hemlock if found. Harvest with adjacent compartment 100 stand 74.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> white pine or any combination of species currently on site											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
76	42098076-Cut	3.6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	87	51-80	Harvest	Clearcut	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Proposal
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Clear cut all trees except hemlock and cedar. No other retention needed due to small size.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of conifers and hardwoods currently found on site.											
<u>Regen:</u>											
<u>Other</u> Cut with compartment 100 to south. Private property line may need to be established. Buffer E branch Fox per guidelines.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
10	42100010-Cut	8.2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	70	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Harvest all trees except hemlock and cedar. Leave a retention patch in the center.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of lowland conifers and hardwoods, similar to what is currently on site.											
<u>Regen:</u>											
<u>Other</u> Size of treatment may vary.											
<u>Comment:</u> All treatments in this compartment: No chipping, winter harvest, leave all hemlock.											
<u>Proposed Start Date:</u> 10/01/2018											
17	42100017-Cut	32.8	6139 - Mixed Lowland Forest	Poletimber Medium	80	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all species other than cedar, and hemlock if it exists. Winter harvest.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any combination of tree species currently present.											
<u>Regen:</u>											
<u>Other</u> All treatments in this compartment: No chipping, winter harvest, leave all hemlock.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
18	42100018-Cut	10.4	6112 - Lowland Aspen	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all species except for any cedar, and hemlock if it exists. Harvest in winter due to deer wintering complex and lowland soil types.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of species currently present.

Regen:

Other All treatments in this compartment: No chipping, winter harvest, leave all hemlock.

Comment:

Proposed Start Date: 10/01/2018

24	42100024-Cut	5.8	6130 - Fir, Aspen, Maple	Sawtimber Well	85	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Cut all species except cedar, and hemlock if found. No other retention is needed due to small size. Winter harvest.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species that are currently on site.

Regen:

Other Difficult access - surrounded by private. Private landowner to the east does have property lines painted in blue, seed to be in proper location.

Comment: All treatments in this compartment: No chipping, winter harvest, leave all hemlock.

Proposed Start Date: 10/01/2018

31	42100031-Cut	9.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	90	141- 170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to approximately 80-100 BA, maintaining species and size class diversity. Leave conifer and winter cut due to deer yard.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable hardwood species including sugar maple, red maple, ash, basswood, yellow birch and cherry

Regen:

Other All treatments in this compartment: No chipping, winter harvest, leave all hemlock.

Comment:

Proposed Start Date: 10/01/2018

36	42100036-Cut	23.5	4110 - Sugar Maple Association	Sawtimber Well	90	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Select tree harvest to 80-90 BA, leaving age/size class diversity and species diversity. Leave conifers and winter cut due to deer yard.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of northern hardwoods currently found on site.

Regen:

Other All treatments in this compartment: No chipping, winter harvest, leave all hemlock.

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
36	42100036- Cut_mwr	29.1	4110 - Sugar Maple Association	Sawtimber Well	90	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Shelterwood harvest following Walter's research project guidance. Tops < 8" will be left.

Specs:

Next Step Monitoring, Other - Specify

Treatments:

Acceptable northern hardwoods

Regen:OtherComment:

Proposed Start Date: 10/01/2018

38	42100038-Cut	78.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to approximately 80-90 BA. Emphasize size/age class and species diversity. Leave conifer and winter cut due to deer yard.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any combination of northern hardwood species currently found on site.

Regen:Other

All treatments in this compartment: No chipping, winter harvest, leave all hemlock.

Comment:

Proposed Start Date: 10/01/2018

39	42100039-Cut	11.9	6122 - Black Spruce	Poletimber Well	83	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees except cedar, and hemlock if found. No other retention is needed due to small area. Treatment size and shape may vary slightly.

Specs: The intent is to harvest an area that is mainly spruce, excluding larger pockets of cedar. Winter cut due to deer yard.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce with other species that are currently found on site.

Regen:Other

All treatments in this compartment: No chipping, winter harvest, leave all hemlock.

Comment:

Proposed Start Date: 10/01/2018

49	42100049-Cut	5.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	77	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees except cedar and hemlock. No other retention is needed due to small size. Winter cut due to deer yard.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of tree species currently on site.

Regen:Other

All treatments in this compartment: No chipping, winter harvest, leave all hemlock.

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
50	42100050-Cut	8.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Mark to 80-90 BA, leaving species and size class diversity. Winter cut due to deer yard.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> northern hardwoods											
<u>Regen:</u>											
<u>Other</u> Private line on east has blue paint visible.											
<u>Comment:</u> All treatments in this compartment: No chipping, winter harvest, leave all hemlock.											
<u>Proposed Start Date:</u> 10/01/2018											
62	42100062-Cut	9.8	6139 - Mixed Lowland Forest	Sawtimber Well	90	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Blocked by Obstacle								
<u>Prescription</u> Harvest all species except white pine and red pine if found. No other retention is needed due to small size.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> All species present.											
<u>Regen:</u>											
<u>Other</u> All treatments in this compartment: No chipping, winter harvest, leave all hemlock.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
74	42100074-Cut	82.5	42320 - Upland Spruce	Poletimber Well	90	51-80	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Blocked by Obstacle								
<u>Prescription</u> Harvest all spruce, tamarack, balsam fir, birch and aspen. Buffer wetlands following BMP guidance.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> A combination of species currently found on site.											
<u>Regen:</u>											
<u>Other</u> Access will be by winter ice road from north.											
<u>Comment:</u> All treatments in this compartment: No chipping, winter harvest, leave all hemlock.											
<u>Proposed Start Date:</u> 10/01/2018											
77	42100077-Cut	3.9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	82	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Clearcut. No retention is needed due to small size. Winter cut due to deer yard.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen with a mix of deciduous and conifer trees currently on site.											
<u>Regen:</u>											
<u>Other</u> All treatments in this compartment: No chipping, winter harvest, leave all hemlock.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
78	42100078-Cut	4.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	82	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Two-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Mark stand down to 50BA, leaving component of all species present. Leave hemlock. Winter cut due to deer and lowland nature of soils. No other retention is needed due to small size.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> hardwood species											
<u>Other Comment:</u> All treatments in this compartment: No chipping, winter harvest, leave all hemlock.											
<u>Proposed Start Date:</u> 10/01/2018											
79	42100079-Cut	1.9	4119 - Mixed Northern Hardwoods	Sawtimber Well	82	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Two-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Mark stand down to 50BA, leaving component of all species present. Leave hemlock. Winter cut due to deer and lowland nature of soils. No other retention is needed due to small size.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> hardwood species											
<u>Other Comment:</u> All treatments in this compartment: No chipping, winter harvest, leave all hemlock.											
<u>Proposed Start Date:</u> 10/01/2018											
102	42100102-Cut	2.5	6112 - Lowland Aspen	Poletimber Well	50	51-80	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Remove all species present, except hemlock if found. Harvest in winter due to low soils and wintering deer. Retention not needed due to small area. No chipping.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Aspen with a mix of species currently on site.											
<u>Other Comment:</u> State Game Fund: the harvest during winter will provide browse for wintering deer both during the year harvested and in following winters through regeneration.											
<u>Proposed Start Date:</u> 10/01/2018											
103	42100103-Cut	15.3	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	87	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest all species, except hemlock if found. Leave cedar pockets and scattered cedar as retention. Winter cut. No chipping.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> A mix of species currently found on site.											
<u>Other Comment:</u> State Game Fund: the harvest during winter will provide browse for wintering deer both during the year harvested and in following winters through regeneration.											
<u>Proposed Start Date:</u> 10/01/2018											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
117	42100117-Cut	20.3	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	90	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Remove all species, except hemlock where found. Leave cedar pockets & scattered cedar as retention. Winter cut. No chipping.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventary)
Treatments:

Acceptable Any combination of species currently found on site.
Regen:

Other State Game Fund: the harvest during winter will provide browse for wintering deer both during the year harvested and in following winters
Comment: through regeneration.

Proposed Start Date: 10/01/2018

125	42100125-Cut	10.6	6122 - Black Spruce	Poletimber Well	82	111-140	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Cut all trees except cedar and hemlock if found. No other retention needed due to small size. Winter cut due to deer yard. No chipping.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventary)
Treatments:

Acceptable B spruce with a combination of other species currently found on site.
Regen:

Other The size and shape may vary slightly to include spruce and exclude cedar patches.
Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 389.2

Report 4 – Site Conditions

Newberry Mgt. Unit
Keith Magnusson : Examiner

Compartment: 100
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions											
		With Condition	Not Available		2B	2I	5F	2G	2H	3B	3H	3J	5D	5E		
176	172	4	0	Aspen		4										
231	203	0	27	Cedar									18	10		
4	4	0	0	Herbaceous Openland												
3	3	0	0	Low-Density Trees												
32	32	0	0	Lowland Aspen/Balsam Poplar												
865	425	96	344	Lowland Conifers		7	89	94	95				67	87	1	
174	107	0	67	Lowland Deciduous				53					15			
142	121	6	15	Lowland Mixed Forest	6				10				5			
140	77	0	63	Lowland Shrub									63			
126	22	0	103	Lowland Spruce/Fir										103		
75	75	0	0	Marsh												
29	10	6	14	Mixed Upland Deciduous		6							14			
597	575	14	8	Northern Hardwood		14				4			3			
3	0	0	3	Red Pine					3							
17	0	0	17	Tamarack					17							
15	15	0	0	Treed Bog												
101	38	0	63	Upland Conifers				0	40			23				
10	10	0	0	Upland Mixed Forest												
83	0	0	83	Upland Spruce/Fir					83							
5	5	0	0	Urban									0			
24	24	0	0	Water												
2,851	1,918	126	807	Total Forested Acres	6	31	89	147	247	4	23	184	200	1		
	67%	4%	28%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River - Natural River							

Report 4 – Site Conditions

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River - Natural River							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	95	2E: Road needed	2I: Survey needed	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	92	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	32	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	2E: Road needed	2I: Survey needed	Unspecified	Unspecified
Comments:							
10	Unavailable	5D: Unproductive Forest Land	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2I: Survey needed	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5D: Unproductive Forest Land	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Keith Magnusson : Examiner

Compartment: 100
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14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5F: Evaluated for Forest Health Considerations	89	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer wintering area. Consider cutting portions next entry after stand 39 has regenerated.							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 100
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20	Unavailable	5D: Unproductive Forest Land	97	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low site index.							
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: water flowing through stand							
25	Unavailable	5D: Unproductive Forest Land	88	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Keith Magnusson : Examiner

Compartment: 100
Year of Entry: 2019

26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: water flowing through stand							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	2E: Road needed	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified
Comments:							
29	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	23	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3B: Threatened, endangered, and special concern species	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 100
Year of Entry: 2019

32	Available	2I: Survey needed	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	2E: Road needed	2I: Survey needed	Unspecified	Unspecified
Comments:							
34	Available	2I: Survey needed	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	2I: Survey needed	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	2I: Survey needed	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – 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 6 – 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	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.
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:
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	126.7	90	81-110	<p>2007: Stand is avg. quality with higher quality potential. Mix of hardwood species with ash/basswood present. Rolling to steep topography in the NE corner of stand. Beech has scale and some maple has bole borer/cankers. Large diameter and tall aspen scattered throughout. Many acres of thick/smaller diameter maple pole timber.</p> <p>Stand harvested via selection harvest as sale #040-09-01, "Compartment 100 Hardwood". Completed 1/20/12.</p> <p>2017: Stand is fully stocked with maple regeneration with a mix of other species. BA averages 60-90 in most places.</p>
2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.9	90	81-110	<p>Stand is along a steep hillside/ridge that would be difficult to operate on. Beech in stand has scale. This area was excluded from the 2012 harvest in adjacent stand 1.</p>
5	4130 - Aspen	Sapling Well	49.6	5	Immature	<p>2007: Stand was clearcut in the early 60's. Aspen is now 3-5 sticks tall and could be harvested now. Stand is a transition from upland hardwood type to lowland type. Deer roaming around in here yarding. 80=11,12 Soil=Paquin/Spot Complex. SCA=, deeryard.2012: Stand harvested as sale #041-09-01, "Compartment 100 Aspen". Completed 01/20/12. Regeneration check needed in 2016.2017: Fully stocked with a mix of species. A few scattered residual trees. Some wet areas.</p>
6	4130 - Aspen	Sapling Well	36.4	15	Immature	<p>2007: Stand was harvested in winter months of 00-02'; T.Sale#019-99. It is now coming back predominately to aspen with a mix of r.maple, p.birch, balsam and spruce. Tag alder in low/wet places of stand. Scattered trees in overstory left over from harvest. Soil=Paquin/Spot Complex. SCA= deeryard.</p>
7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	34.5	65	51-80	<p>2007: Stand was treated in winter months of 00-02'. T.Sale#019-99. Loggers worked in areas of stand where they could operate. Ground is very soft in here with standing water in places. Tag alder throughout. Scattered residual of lowland trees species. Regen of mostly b.fir as well as aspen, birch and red maple, thick in places where timber was cut. Soil=Lupton/Tawas/Carbondale Muck.</p>
9	6124 - Lowland Spruce- Fir	Poletimber Medium	11.6	65	51-80	<p>2007: East and north ends of stand may be more operable, the ground may support logging activities. The west half of stand is low and wet. A lot of blow down spruce/balsam in stand in this area. Timber is scattered in overstory over tag alder/dogwood. Soil=Lupton/Tawas/Carbondale Muck. SCA= deeryard. See wildlife comments for timing of year for harvest. Cutting, skidding, hauling should be done prior to March 1.</p> <p>2012: East portion of Stand harvested as sale #041-09-01, "Compartment 100 Aspen". Completed 01/20/12. Regeneration check needed in 2016.</p> <p>2017: This is the West part of stand that was not harvested. Wet ground.</p>
10	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	231.9	70	81-110	<p>Area was cut over in the late 40's. Larger cedar was left from earlier cutting. Trees are thick and thin across stand. Patches of bigger trees, but most trees 4-8"dbh. Tag alder in understory. B.fir reproduction as well as some spruce/cedar. SCA= deeryard.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	23.1	67	51-80	2017: Much more open than surrounding stands. BA variable 20-90. 2007: Low/wet ground. Trees are shorter, tag alder abundant in understory. Water moves through stand from east to west. Larger cedar left in stand from last cutting in the 40's. Scattered dead cedar, spruce/fir reproduction. SCA= deeryard.
13	4110 - Sugar Maple Association	Sawtimber Well	75.2	85	81-110	Stand was treated in 2000-01'; T.Sale#026-99. Stand is higher quality sugar maple, with a component of basswood, red maple, beech, y. birch, basswood and cherry. Beech is mostly dead or dying. Regeneration from harvest is thick seedling/sapling sized. Ironwood regen is prolific. Beech thickets present along with patches of balsam fir regen. Maple regen is a minor component of understory. North end of stand has more red maple. Soil=McMillan.
14	4139 - Aspen, Mixed Deciduous	Sapling Well	6.8	5	Immature	Stand harvested as sale #041-09-01, "Compartment 100 Aspen". Completed 01/20/12.
15	4130 - Aspen	Sapling Well	17.0	5	Immature	Soil=Paquin/Spot Complex. SCA= deeryard. Stand harvested as sale #041-09-01, "Compartment 100 Aspen". Completed 01/20/12.
16	6112 - Lowland Aspen	Sapling Medium	10.1	5	Immature	Stand harvested as sale #041-09-01, "Compartment 100 Aspen". Completed 01/20/12. Stand is similar to adjacent stand 15, with the difference being wetter soil types here. Cattails present as well as some scattered cedar left from cutting. Some rutting evident from harvest. Soil=Spot/Finch Complex.
17	6139 - Mixed Lowland Forest	Poletimber Medium	32.8	80	51-80	Most of the tamarack in the stand is dead. Aspen is low quality. Cedar is scattered in patches. Wet stand with seeps. Overstory is scattered. Plenty of balsam fir regen mixed with tag alder and other species. Winter cut. No evidence of deer present. SCA= deeryard.
18	6112 - Lowland Aspen	Sawtimber Well	10.4	85	81-110	2017: Large overmature aspen growing with spruce, balsam, p. birch. Not much cedar. Decent quality stand. Seeps/low wet areas present. No evidence of wintering deer present. 2007: Stand is mostly lowland conifers with a mix of aspen/birch. Deer yarding in here now. Ground is soft. Intermittent drain running from uplands towards this stand. Merchantable timber in here but logging may be difficult due to low/wet/soft ground. Soil=Lupton/Tawas/Spot Complex. SCA= deeryard.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	6120 - Lowland Cedar	Sawtimber Well	93.5	87	111-140	<p>2017: Lowland conifer stand. Much of the tamarack is standing dead. Cedar dominates stand. Spruce in stand is decent quality. There are pockets of high quality cedar, some large diameter. Regen in stand is primarily balsam fir of varying density. Overall decent stand. No evidence of wintering deer present.</p> <p>2007: Stand was cut over in the 30's. There is scattered residual cedar from that cut. Stand is mostly a mix of cedar, spruce, tamarack, b.fir, p.birch. There is merchantable timber, but low ground. Private land to the south is going to be cut. It may be possible to treat this stand as well if desired. Would need to be treated in winter months. Area is a deer yard, deer yarding in here now. SCA= deeryard.</p>
20	6120 - Lowland Cedar	Poletimber Well	15.4	87	81-110	<p>2017: Stand was cut over in the 30's. A lot of tamarack in stand is dead. Cedar dominates the stand. B. fir is quite thick in understory throughout the stand. B. Ash present in understory as well as tag alder. Old ice-road through stand, mostly tag alder choked. No evidence of wintering deer present.</p> <p>2007: Stand was cut over in the 30's. There is scattered residual cedar from that cut. Stand is mostly a mix of cedar, spruce, tamarack, b. fir, p. birch. There is merchantable timber, but low ground. Stand is difficult to access with PVT land surrounding it. Private land to the north is going to be cut. It may be possible to treat this stand as well if desired. Stand would need to be treated in winter months. Area is deer yard, deer yarding in here now. SCA= deeryard.</p>
21	6139 - Mixed Lowland Forest	Poletimber Medium	21.8	70	1-50	<p>2017: Stand is wet. B. ash is mostly sapling sized. Most trees present are stunted - low productivity site. No evidence of wintering deer present.</p> <p>2007: Difficult stand to access due to pvt land. SCA= deeryard.</p>
22	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	44.5	94	81-110	<p>2017: Stand was cut over in the 30's. Lowland conifer stand, with cedar dominating. Tamarack present but a lot of it is dead. Black spruce decent quality. Balsam fir is thick in understory. Mixed with tag alder. No evidence of wintering deer present. Old logging ice road runs through stand, tag alder choked.</p> <p>2007: Stand was cut over in the 30's. Scattered residual cedar left from that cut. Stand is mostly a mix of cedar and spruce with a mix of tamarack, b. fir and paper birch growing in low ground. Difficult stand to access due to pvt land and surrounding lowland. Merchantable timber in here. If treatment is desired, access would need to be across pvt land. Would need to be treated in winter months. Deer yarding in here now. SCA= deeryard.</p>
23	6120 - Lowland Cedar	Sawtimber Well	7.1	90	81-110	<p>2017: Very nice cedar. Light understory. Thick overstory. Cedar tall/straight. P. birch is also tall and straight. Aspen in overstory is overmature. Stand is on wetter soil types. More "upland" in relative terms to surrounding stands.</p> <p>2007: Difficult stand to access due to PVT land surrounding lowlands. Stand has merchantable timber. If treated, it would take some work to secure access to stand and put a road in across pvt land. Soil=Lupton/Tawas/Spot Complex. SCA= deeryard.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	6130 - Fir, Aspen, Maple	Sawtimber Well	5.8	85	51-80	<p>2017: Thick b. fir understory. P. birch, r. maple in understory too (saplings). Large overmature aspen in overstory. Cedar scattered in stand. No evidence of wintering deer present.</p> <p>2007: Difficult to access due to PVT land surrounding lowlands. Stand is a mixed bag of lowland conifers with merchantable timber, but low ground. Private land to the east is going to be treated. It may be possible to get this stand treated as well if desired. Would need to be treated in winter months. Deer yarding in area now. Soil=Lupton/Tawas/Spot Complex. SCA= deeryard.</p>
25	6120 - Lowland Cedar	Poletimber Well	24.8	90	111-140	<p>2017: Stand was cut over in the 30's. Cedar dominates the stand. Some nice pockets of cedar in places. Balsam fir thick in understory in most places. No evidence of wintering deer present.</p> <p>2007: Stand was cut over in the 30's. There is scattered residual cedar from that cut. Stand is mostly a mix of cedar, spruce, tamarack, b.fir, p.birch. There is merchantable timber, but low ground. Stand is difficult to access to access with PVT land surrounding it. Private land to the east (EJ Watson '80') is going to be cut. It may be possible to treat this stand as well if desired. Would need to be treated in the winter months. Area is a deer yard, deer yarding in here now. SCA= deeryard.</p>
26	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	3.0	74	51-80	<p>2017: Wet ground. Species composition varies, with more conifer to south and west.</p> <p>2007: Stand was harvested in the late 30's early 40's. Mixed bag of lowland tree species, mostly cedar. Soil=Lupton/Tawas/Spot Complex. SCA= deeryard.</p>
27	4134 - Aspen, Spruce/Fir	Poletimber Well	32.0	26	51-80	<p>2017: Pole stand, but many trees aren't yet merchantable. Deer and bear tracks on trail road.</p> <p>2007: Stand is the result of two harvests. Larger residual trees, aspen, r. maple, balsam, spruce, scattered around, some in patches. Not a clean clear cut. Low/wet pockets/gullies run through stand draining the uplands towards the lowlands. These areas are soft and wet. Some aspen moving from saplings to poles. Deer yarding in here now. Soil=McMillan. SCA= deeryard.</p>
28	4119 - Mixed Northern Hardwoods	Poletimber Well	4.2	80	51-80	<p>Stand falls in a gully that is seasonally wet in the bottom. Gully leads from upland hardwoods towards the south to lowlands. Portions of stand were treated in 2001 with timber sale 026-99. Side hills of gully were thinned. Soil=McMillan. SCA= deeryard.</p>
29	4119 - Mixed Northern Hardwoods	Poletimber Well	2.1	80	51-80	<p>Stand falls in a gully that is seasonally wet in the bottom. Gully leads from upland hardwoods towards the south to lowlands. Portions of stand were treated in 2001 with timber sale 026-99. Side hills of gully were thinned. Soil=McMillan. SCA= deeryard.</p>
30	4119 - Mixed Northern Hardwoods	Sawtimber Well	194.3	100	81-110	<p>2017: BA varies from 60-120. Rolling hills and vernal ponds. Some areas of stand contain more poles and less log sized trees. Beech is mainly dead. 2007: Stand was treated in 00'-02', T.Sale#026-99. Some areas of stand (west) are not that well drained and there are areas were water seasonally stands. Deer browse damage on seedlings that resulted from harvests. Raspberry brush present. Soil=McMillan. SCA= deeryard.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.8	90	141-170	Most beech is dead. SCA= deeryard.
34	4199 - Other Mixed Upland Deciduous	Poletimber Medium	9.6	45	1-50	Old opening that has been filling in with trees. Poles and saplings. Ground cover is bracken fern, grass, raspberry brush, hazel brush and tree seedlings. SCA=, deeryard.
36	4110 - Sugar Maple Association	Sawtimber Well	52.6	90	81-110	Stand was treated in 1992; T.Sale#005-91. NE corner of stand was thinned heavier and more advanced reproduction; much of the regeneration is ironwood. High quality stand with large diameter, tall trees. Average BA is 110, the majority of which is sugar maple. SCA for deeryard. A 30 acre parcel has a shelterwood treatment for Walter's research.
37	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.2	90	111-140	Most beech is dead. SCA= deeryard.
38	4112 - Maple, Beech, Cherry Association	Sawtimber Well	78.6	85	111-140	2017: Rolling terrain that slopes to the north. Beech are mainly dead from BBD. Dense regen from last harvest. 2007: Stand was treated in 00'-03'; T.Sale#026-99. Some hardwood reproduction, some deer browse damage. Stand heavier to red maple, somewhat lower quality. Raspberry brush present. Beech has scale. SCA= deeryard.
39	6122 - Black Spruce	Poletimber Well	11.9	83	81-110	An area of mainly spruce that was typed out of stand 39. Wet ground, with mainly moss, grass/sedge and Labrador tea. Some blowdown.
40	4139 - Aspen, Mixed Deciduous	Sapling Well	13.8	16	Immature	2017: Areas of upland and lowland. Majority of ground cover is sedge/grass and brackenfern, with some tag alder in wet areas. Some residual trees (10-40 BA). This stand is fully regenerated. 2007: Stand was cut in winter months of 00'-02'. Mostly aspen coming back with a mix of b.fir and red maple. Scattered overstory of maple, spruce, cedar left from cut. SCA=, deeryard.
41	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	88.7	81	51-80	2017: Large stand with variable species composition and density. Tag alder in areas with lower BA. Cedar regen is present. Some blowdown. Wet ground. 2007: Area was treated in the 30's. Old stumps present still. Larger diameter cedar left over from last harvest. Deer in here yarding now. Stand is variable, some areas heavier to spruce, some heavier to cedar, never the less, a lowland conifer type. SCA=, deeryard.
42	4130 - Aspen	Sapling Well	9.1	27	Immature	Stand was cut in 1990, T.Sale #010-89. Sloping toward the south. Some trees are pole sized. The balsam fir regeneration is more dense near the adjacent lowland. Soil=Paquin/Spot Complex. SCA= deeryard.
43	4130 - Aspen	Sapling Well	7.1	27	Immature	Stand was cut in 1990, T.Sale #010-89. Sloping to the west and south. Some trees are pole sized now. Soil=Paquin/Spot Complex. SCA= deeryard.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	92.9	75	81-110	Stand was treated in the 40's. Some cedar was left behind from that harvest, now larger diameter. Stand density and composition varies. Lowland with a few upland knobs. SCA= deeryard.
45	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	4.6	82	1-50	Water flows through the middle of stand towards the E.Branch Fox River. SCA=, deeryard.
46	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	12.0	82	51-80	Low/wet ground. Black ash present. Overstory timber is low quality, with varying density and species composition throughout stand, most of these trees are declining. Thick b.fir regen in many places. Areas of blowdown. Tag alder present. Soil=Paquin/Spot Complex. SCA= deeryard.
47	6120 - Lowland Cedar	Poletimber Well	24.4	82	81-110	Lowland conifer stand. Low/wet ground. Varying density and species composition. Areas with higher BA have less tag alder, and more grass/sedge, moss. Some blowdown areas. Soil=Paquin/Spot Complex. SCA= deeryard.
48	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	13.4	82	1-50	Water flows through the middle of stand towards the E.Branch Fox River. Variable tree density. SCA=, deeryard.
49	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.6	77	81-110	Transition between upland hardwood and lowland conifer. Mixed bag stand of aspen, hardwood and lowland conifers. Difficult stand to access due to the PVT land, topography and nearby lowland type. SCA= deeryard.
50	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.2	85	111-140	Stand was thinned in 99'; T.Sale#028-99. Stand is situated on the side of a slope. Difficult stand to access with PVT land to the north and lowland types to the West and NW. Quality hardwood site. Soil=McMillan. SCA= deeryard.
52	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	3.4	100	Unspecified	Stand falls within E Branch Fox River zone. Small feeder streams and sheet flow leading through stand towards the river. Soil=Lupton/Tawas/Carbondale Complex SCA= deeryard.
53	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.9	100	Unspecified	Stand falls within E Branch Fox River zone. Small feeder streams and sheet flow leading through stand towards river. Soil=Lupton/Tawas/Carbondale Complex SCA= deeryard.
54	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	2.9	100	Unspecified	Stand falls within E Branch Fox zone. Small feeder streams and sheet flow leading through the stand towards river. Soil=Lupton/Tawas/Carbondale Complex SCA= deeryard.
55	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.9	100	Unspecified	Stand falls within E Branch Fox River zone. Small feeder streams and sheet flow leading through stand towards river. Soil=Lupton/Tawas/Carbondale Complex. SCA= deeryard.
57	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	87.8	100	51-80	Stand is a mixed bag of sizes and species. Older overstory and a younger understory of similar species. Stand is wet ground. Volume is light and scattered. SCA= deeryard.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	95.0	77	111-140	Stand is a mixed bag of lowland conifers. Area was cut through in the late 30's, early 40's. Not a complete clearcut. Low ground but firm relative to the surrounding lowland. Area has potential to be harvested with access being from the west or south west across private land (recent logging activity has occurred on PVT land to the southwest). Otherwise access is severely limited. Soil=Lupton/Tawas/Spot Complex. SCA= deeryard.
60	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	23.3	130	81-110	Stand is old. Aspen/lowland poplar is dying out. Birch also. Cedar is thick and thin and not great quality. Balsam fir and black ash regenerating. Cedar regen also present. Soils=Lupton/Tawas/Carbondale Complex. SCA= deeryard.
62	6139 - Mixed Lowland Forest	Sawtimber Well	9.8	90	51-80	Aspen in stand is old and declining. Balsam fir is vigorously regenerating in understory along with red maple. If a road could be froze across marsh from M-28, stand would be worth treating. Soil=Rousseau/Spot Complex.
63	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	3.6	100	51-80	Island ridges amongst lowlands. Not worth effort to access for treatment. Not much merchantable timber. Soil=Rousseau/Spot Complex.
64	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	3.9	100	51-80	Subtle sand ridge flanked by lowland timber types. Difficult to get to stand. Soil=Spot/Finch
65	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	7.9	100	51-80	Subtle sand ridge flanked by lowland timber types. Difficult to get to stand. Soil=Spot/Finch
66	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	10.7	100	51-80	Subtle sand ridge flanked by lowland timber types. Difficult to get to stand. Soil=Spot/Finch
67	6122 - Black Spruce	Poletimber Medium	97.3	100	1-50	Suppressed Spruce. Low volume stand.
69	6124 - Lowland Spruce-Fir	Poletimber Poor	57.8	90	1-50	Scattered lowland conifers with a lowland brush understory. Some "upland" islands of timber scattered within this stand too small to type out. Most timber is suppressed.
70	6121 - Tamarack	Poletimber Well	16.6	70	51-80	Lowland tamarack/tag alder stand. Soil=Lupton/Tawas/Carbondale Complex.
71	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	14.2	100	81-110	2017: Decent stand to walk in. Timber not all that tall but ok quality. Low ground, sphagnum moss/wet areas throughout. Rabbit tracks and grouse in here. 2007: Lowland conifer mix. Birch mixed in. Low ground. Access is difficult to stand with lowland types in every direction, no roads and PVT land to the west.
73	6122 - Black Spruce	Poletimber Poor	5.9	90	Unspecified	Typed as non-forested last entry. Stand has merchantable timber, but SI is very low. Varying sizes of b. spruce sapling/pole. Scattered tamarack. Timber is too sparse to treat. Suppressed spruce / lowland conifers.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
74	42320 - Upland Spruce	Poletimber Well	82.5	90	51-80	<p>2007: Stand is a complex of low sand ridges fringed with mostly spruce, pockets of red pine, white pine and an occasional birch, aspen, red maple. Lowland pockets scattered throughout stand. Access to stand is very difficult with lowland marsh to the north, E. Branch Fox River to the east, lowland timber types / PVT land to the west and south. Soil=Rousseau/Spot Complex.</p> <p>2017: Stand is a subtle ridge that is higher in places. Spruce on fringes/lower areas tends to smaller diameter (flag pole) non-merchantable. Timber on ridge is somewhat better. Aspen present is declining and not great quality.</p>
76	42210 - Natural Red Pine	Poletimber Well	2.7	90	51-80	Island of spruce/red pine in the middle of a marsh. Upland is about 2 foot higher than surrounding marsh. Difficult to access - logging is probably not a feasible option. Soil=Croswell/Spot Complex.
77	4139 - Aspen, Mixed Deciduous	Sawtimber Well	3.9	82	81-110	Large diametered ovetopping aspen many of which have begun to blow down. Ground is soft/low. Seedling have some heavy browse damage. Heavy deer use. Soil=Caffey/Finch Complex. SCA= deeryard.
78	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.0	82	81-110	Stand is more upland than surrounding timber and has more of an upland hardwood timber mix. An upland knob surrounded by wet soil types and lowlands. Deer browse damage on seedlings. SCA= deeryard.
79	4119 - Mixed Northern Hardwoods	Sawtimber Well	1.9	82	81-110	Stand is more upland than surrounding timber and has more of an upland hardwood timber mix. Stand is an upland know surrounded by wet soil types and lowlands. Deer browse damage on seedlings. Soil=Solona SCA= deeryard.
80	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.4	90	111-140	Dense cedar, for the most part, with other species ovetopping. Heavy wintering deer use. Browse damage on seedling is heavy. SCA= deeryard.
81	6118 - Lowland Deciduous with Cedar	Sawtimber Well	18.9	140	81-110	Old cedar in this stand ~140+years old, 8-20"DBH. Blow downs all through stand with thick lowland harwood and shrub species regenerating as a result. Browse damage on seedlings. Heavy deer use. A lot of sapling sized black ash, elm, y.birch, p.birchr. Some large ovetopping y.birch and red maple, Balm and basswood. Soil=Lupton/Tawas/Carbondale Complex. SCA= deeryard.
82	6120 - Lowland Cedar	Poletimber Well	23.6	140	111-140	Blow down cedar throughout stand. Some large diameter old cedar 18+". Cored a cedar and it was 140+ years old. Balsam fir dominates the understory, and is thick in places. Varying degrees of regen p. birch, b. ash, r. maple. Browse damage on hardwood species. Stand is lowland with water table very near the surface. Deer yarding in here now. Soil=Lupton/Tawas/Carbondale Complex. SCA= deeryard.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
83	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.4	75	81-110	Stand is a mix of ages and sizes. Very large/over mature maple overstory with heavy understory of sapling sized trees - mostly maples, y. birch, b. ash and elm. Rolling topography with wet pockets throughout. Water table is very near surface. Beech is mostly dead. Some large maple over 24"dbh. No access to stand other than lake or through private land. Stand has a fringe of old cedar along the lake. Deer yarding nearby. Soil=Caffey/Finch Complex. SCA= deeryard.
84	4119 - Mixed Northern Hardwoods	Sawtimber Well	15.8	75	81-110	Stand is a mix of ages and sizes. Very large/over mature maple overstory with heavy understory of sapling sized trees - mostly maples, y. birch, b. ash and elm. Rolling topography with wet pockets throughout. Water table is very near surface. Beech is mostly dead. Some large maple over 24"dbh. No access to stand other than lake or through private land. Stand has a fringe of old cedar along the lake. Deer yarding nearby. Soil=Caffey/Finch Complex. SCA= deeryard.
85	6118 - Lowland Deciduous with Cedar	Poletimber Well	11.3	90	51-80	Stand occurs in wet soil types. Standing water many times of the year. Thick sapling sized red maple, black ash, elm. Scattered cedar. Scattered large DBH red maple, y. birch. Deer wintering here. Soil=Leafriver. SCA= deeryard.
86	6120 - Lowland Cedar	Poletimber Well	2.8	110	111-140	Low wet ground for most part. Standing water in some areas of stand. Large over mature red maple, y. birch overtopping cedar and thick lowland hardwood reproduction and tag alder. Pockets of thick balsam fir understory as well. Evidence of wintering deer, and wolves. Soil=Leafriver. SCA= deeryard.
89	6118 - Lowland Deciduous with Cedar	Poletimber Well	4.8	90	81-110	2007: Lowland hardwood/lowland conifer. Low/wet ground. Deer yarding in here now. Water moves through this stand, topography relief of adjacent uplands. SCA= deeryard. 2017: Very wet stand. Standing water with a lot of downed rotting wood on ground. Deer use stand in winter somewhat. Evidence of trails and droppings.
90	4119 - Mixed Northern Hardwoods	Sawtimber Well	9.3	95	51-80	2017: Understory consists of s. maple, r. maple, ironwood, beech, w. ash. Some deer browse damage. Thickets of beech. Open areas are thick with raspberry. Most beech in overstory is now dead. Regen is getting above browse height. Possibly treat in 10 years. Regen 2016: 1475 TPA of sugar maple, small amount of other species: red maple, cherry, beech, and ash. Thinned with stand 91. Lots of wet pockets with marsh marigolds, some cattails on east side of stand. Raspberry coming in thick in openings in the west. 2007: Large overmature hardwood stand. Trees are defective and old. Site has potential for quality timber. A lot of sugar maple reproduction with some browse damage on seedlings. Advanced reproduction present 0-3"DBH 5-30' tall. Beech has scale. Soil=Solona. SCA= deeryard. Stand harvested via selection harvest as sale #006-09-01, Boat Launch hardwoods. Completed 04/30/2012. Regeneration check needed in 2016.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
91	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	24.7	90	51-80	<p>2017: A lot of seedling/saplings in understory along with raspberry brush in areas of open canopy. BA varies 30-90. Stand is mostly lowland with upland knobs scattered throughout. Lowlands currently have standing water. Broad winged hawk & nest in stand is currently active. Old DNR campground in stand that was never completed in 1970's.</p> <p>Regen 2016: 1475 TPA of sugar maple, small amount of other species: red maple, cherry, beech, and ash. Thinned with stand 90. Lots of wet pockets with marsh marigolds, some cattails on east side of stand. Raspberry coming in thick in openings in the west half.</p> <p>2007: Stand is hardwood, mostly lowland species. Large overtopping maple, ash, basswood and y.birch. Heavy advanced reproduction of all listed species. If scheduled, thin overstory hard and let regen release. Stand contains an abandoned campground that was developed by the DNR and was never used - could never get good water samples. Campground roads/trails/sites are still evident with the posts still present. Sites are growing in with tree saplings now. 99(pulp)=03,04,41,06 99(sawlog)=01,03,06,04 80=11,15. Soil=Caffey/Finch/Solona Complex.</p> <p>Stand harvested via selection harvest as sale #006-09-01, Boat Launch hardwoods. Completed 04/30/2012. Regeneration check needed in 2016.</p>
92	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	4.6	55	1-50	<p>Wet stand, standing water in many places. Stand mostly sapling sized going into pole sized. Lowland hardwood. Soil=Caffey/Finch complex.</p>
94	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	3.3	105	111-140	<p>2017: Stand flanks shoreline of Big Manistique Lake. Mostly low mucky soils with scattered upland knobs. Standing water in places. Some very large soft maple trees present. Lowland hardwood stand of varying ages/sizes.</p> <p>2007: Fringe of lowland hardwoods and cedar bordering Manistique Lake. Hardwood overtops the cedar. Soil=Leafriver.</p>
95	6113 - Lowland Maple	Poletimber Medium	7.8	90	51-80	<p>2017: Standing water in many areas of the stand. Some large red maple log sized trees > 20" in overstory. Sapling sized beech, y birch, r maple, elm in understory. Cat tails in places. Deer wintering use.</p> <p>2007: Stand is mostly sapling sized lowland hardwood species with a scattering of pole size cedar and spruce. A strip of clumpy, poor formed red maple borders Manistique Lake. Dogwood, tag alder, cat-tails as ground cover. 99=03,02,41 98=22,25 Soil=Lupton/Tawas/Carbondale Complex. SCA, deeryard.</p>
96	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	17.0	90	51-80	<p>2017: Areas of stand with a lot of sapling sized b ash, y birch, elm, r maple. Standing water in some areas of stand. Wintering deer.</p> <p>2007: Stand is in low/soft ground. There are areas of stand with a lot of sapling sized yellow birch reproduction as well as b.ash, elm, b.fir and spruce. Deer in here now yarding and roaming around. 99(pulp)10,03 99(sawlog)=05,04 Soil=Lupton/Tawas/Carbondale complex. SCA=, deeryard.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
97	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	9.6	90	51-80	<p>2017: Regeneration is very light in stand. Beech thickets present. Browse damage on seedlings. A lot of regen is stump sprout origin. Saplings present. Wintering deer present.</p> <p>2015 - Stand was treated with TSale # 420450901 - Mills Bay Hardwood. TCR 10/29/2015. Cut in 2014.</p> <p>2007: Mixed stand of red maple, sugar maple, y. birch, basswood, black ash and white ash. Not much quality in timber, most is defective. Scattered w.spruce and hemlock with pockets of cedar. Hardwood seedlings are heavily browsed. Advanced regen present. Ground is soft and if stand is scheduled, it would probably need to be a winter cut. Soil=Caffey/Finch/Solona Complex. SCA= deeryard.</p>
98	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	3.7	90	81-110	<p>Mixed bag of lowland hardwoods/lowland conifers. Cedar groves. Traces of hemlock, white spruce, black spruce, b fir. Deer yarding in here now. Soil=Lupton/Tawas/Carbondale complex. SCA= deeryard.</p>
100	4119 - Mixed Northern Hardwoods	Sawtimber Medium	3.9	85	51-80	<p>2007: More of an upland site than the hardwood stand 101, not a top quality stand though. Deer browse damage on the hardwood seedlings. Advanced regen present. Soil=Graveraet. 99=03,02,05 SCA=, deeryard.</p> <p>2015- Stand was treated with Tsale# 420450901 - Mills Bay Hardwood. TCR 10/29/2015.</p> <p>2017: Regen from harvest is mostly stump sprout origin. Browse damage on many hardwood seedlings. Deer wintering here now.</p>
101	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	26.1	85	51-80	<p>2007: Mixed stand of hardwoods and lowland conifers. Scattered inclusions of lowland cedar pockets. A lot of black ash seedlings. Most hardwood seedlings are heavily browsed. Advanced regen present. Deer yarding and roaming around in here. 99(pulp)=04,02,05; 99(sawlog)=03,04,06,41; 98(pulp)=39,20,21. Soi=Caffey/Finch/Solona complex. SCA= deeryard.</p> <p>2015 - Stand was treated with TSale# 420450901 - Mills Bay Hardwoods. TCR 10/29/2015.</p> <p>2017: Regen from harvest is mostly stump sprouts, some of which is browsed. Pockets/inclusions of cedar/hemlock in a few places in stands. Deer using stand post harvest. Wintering deer in here now.</p>
102	6112 - Lowland Aspen	Poletimber Well	2.5	50	51-80	<p>Decent aspen - 5 sticks tall average. Thick b fir understory.</p> <p>Soil=Solona. SCA=, deeryard.</p>
103	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	15.3	87	81-110	<p>2017:Pockets of thick pole sized cedar. Stand is variable with regen. Thick balsam fir in places, thick b. ash, elm in other areas. BA 60-150.</p> <p>2007: Lowland conifer/lowland hardwood stand. B.ash saplings on ground. North edge of stand is lowland hardwood, E5/E2. Difficult stand to walk through, several old blowns and saplings. 98=20,22,39,21 99=10,02,03. Soil=Lupton/Tawas/Carbondale. SCA= deeryard.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
104	6112 - Lowland Aspen	Poletimber Well	2.3	43	51-80	North end of this stand is wet, more of an E/Q type than an A type; suppressed spruce/cedar with tag alder. The rest of the stand is aspen. Stand was harvested in 1974 using DRIP funds. Soil=Solona/Lupton/Tawas complex. SCA= deeryard.
105	6112 - Lowland Aspen	Sapling Medium	1.3	4	Immature	2007: Aspen on east end of stand, maple on the west, small stand. This was a reserve strip left from the strip cutting in 1974. Stand should be treated now, but low priority. Soil=Solona. SCA=, deeryard. 2015- Stand was treated with Tsale# 420150901 - Mills Bay Hardwoods. TCR 10/29/15. 2017: Regen count passes.
106	6112 - Lowland Aspen	Poletimber Well	1.9	43	51-80	2017: north end E/Q type too small to type out. Suppressed spruce/cedar with tag alder. 2007: North end of this stand is wet, more of an E/Q type than an A type; suppressed spruce/cedar with tag alder. The rest of the stand is aspen. Stand was harvested in 1974 using DRIP funds. Soil=Solona/Lupton/Tawas complex. SCA= deeryard.
107	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	2.5	85	51-80	2017: Stand is multiple sizes sap to log. Looks to have been cut heavy in the past. 2007: Stand looks to have been cut through, probably in 1974. A lot of hardwood reproduction, mostly lowland species. Soil=Solona. SCA= deeryard.
108	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	2.4	43	1-50	2017: West end of stand is more E type - black ash. Regenerated more to lowland conifers. Moving from saps to poles. 2007: Stand was strip cut in 1974 using DRIP funds. Aspen regen is growing on site much better than other species. West end regenerated more to lowland hardwoods. Stand is moving from saps to poles. Soil=Solona/Lupton/Tawas complex. SCA= deeryard.
110	6119 - Mixed Lowland Deciduous Forest	Sapling Well	1.8	45	1-50	Stand was part of a strip cutting using DRIP funds in 1972. Stand is in a low/wet soil type and came back to mostly black ash with a mix of elm, y.birch, p.birch and cedar. Soil=Lupton/Tawas/Carbondale complex. SCA= deeryard.
111	6113 - Lowland Maple	Sawtimber Well	2.6	85	51-80	2017: Heavy sapling understory in most places in stand. 2007: Quality of hardwood in stand is not that great, poor form. Hemlock throughout. Looks to have been partially harvested or influenced by adjacent strip cuts; advanced reproduction present. Soil=Solona/Lupton/Tawas complex. SCA= deeryard.
112	6112 - Lowland Aspen	Poletimber Well	2.1	43	1-50	Stand was part of a strip cutting using DRIP funds in 1974. Stand came back predominately to aspen with a mix of r.maple, p.birch, cherry and some b.ash. Aspen is growing on site much better than any other species, it is ~3-5 sticks tall and 9" DBH. Soil=Solona. SCA= deeryard.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
113	6113 - Lowland Maple	Sawtimber Medium	1.4	95	51-80	<p>2007: Large diametered maple. Not great quality, but decent. Trees are getting overmature, some defective. Stand is low priority if scheduled, small acreage.</p> <p>2015- Stand was treated with Tsale# 420450901 - Mills Bay Hardwoods. TCR 10/29/15.</p> <p>2017: Regen is mostly stump sprouts and is being browsed on by deer. Sapling sized trees in understory too.</p>
114	6112 - Lowland Aspen	Poletimber Poor	1.4	43	1-50	<p>Stand was part of a strip cutting using DRIP funds in 1974. Stand came back predominately to aspen with a mix of r.maple, p.birch, cherry and some b.ash. Aspen is growing on site much better than any other species, it is ~3-5 sticks tall and 9"DBH. Soil=Solona. SCA= deeryard.</p>
115	6113 - Lowland Maple	Sawtimber Medium	1.1	95	51-80	<p>2007: Large diameter maple. Not great quality, but decent. Trees are getting overmature, some defective. Stand is low priority if scheduled, small acreage. SCA= deeryard.</p> <p>2015- Stand was treated with TSale #42-045-09-01 - Mills Bay Hardwoods. TCR 10/29/2015.</p> <p>2017: Regen is mostly stump sprouts, and is being browsed on by deer. Sapling sized trees in understory too.</p>
116	6113 - Lowland Maple	Sapling Well	0.9	43	1-50	<p>Stand was strip cut in 1974 using DRIP funds. A lot of sapling sized hardwood, just moving into pole size class. Balsam, spruce, hemlock present. Soil=Menominee/Graveraet Complex. SCA= deeryard.</p>
117	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	20.3	90	81-110	<p>2017: Balsam fir understory thick in places. Pole and log sized trees. BA ranges 60-120.</p> <p>2007: Mixed bag of lowland conifers/hardwoods. Deer yarding in here now. Low quality timber. Soil=Lupton/Tawas/Carbondale complex. SCA= deeryard.</p>
118	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	1.3	40	1-50	<p>2017: Stand was harvested in 1973 using drip funds. Mostly sapling sized going into pole sized.</p> <p>2007: Stand is mostly black ash, red maple, balsam fir and spruce. B.fir is thick in places. Dogwood brush present. Stand was strip cut. Most species are sapling sized starting to go into pole size. 98=20,21,25 Soil=Lupton/Tawas/Carbondale complex. SCA= deeryard.</p>
119	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	1.6	40	1-50	<p>2017: Stand was harvested in 1973 using drip funds. Mostly sapling sized going into pole sized.</p> <p>2007: Stand is mostly black ash, red maple, balsam fir and spruce. B.fir is thick in places. Dogwood brush present. Stand was strip cut. Most species are sapling sized starting to go into pole size. 98=20,21,25 Soil=Lupton/Tawas/Carbondale complex. SCA= deeryard.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
120	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	37.6	110	141-170	<p>2017: Stand has been cut through in long ago past. Stumps still present. Stand is quite variable, BA ranging from 60-200. B. fir can be thick in places. Some area of thick groves with log sized hemlock mixed w cedar, maple, spruce, p birch. Stand is relatively upland compared to surrounding stands. In the hemlock groves the understory is "park-like". Evidence of wintering deer in here as well as wolf kill sites.</p> <p>2007: Decent hemlock/lowland conifer stand. Deer yarding in here now. Thickets of b.fir reproduction. 99=03,04,10 Soil=Lupton/Tawas/Carbondale complex. SCA= deeryard.</p>
121	6120 - Lowland Cedar	Poletimber Well	17.7	95	111-140	<p>2017: Stand is thick. Cedar dominates stand and has quality. Ash, fir and white pine in canopy in trace amounts. Deer wintering use is heavy.</p> <p>2007: Decent cedar stand, nice poles. Deer yarding in here now. 99=41,03,04 Soil=Lupton/Tawas/Carbondale complex. SCA= deeryard.</p>
122	4319 - Mixed Upland Forest	Poletimber Well	9.9	85	111-140	<p>2017: West side of stand is more maple with heavy b fir understory. East side has more of a cedar component where understory is more open. Stand is relatively "upland" compared to surrounding stands. Cedar is thick in parts of stand. BA ranges from 60-200. Heavy deer winter use.</p> <p>2007: Stand mostly red maple - clumpy and not great quality. Some large diameter white spruce throughout. B.fir is thick in understory. Hemlock/cedar along the river. Soil=Hendrie. SCA=deeryard.</p>
125	6122 - Black Spruce	Poletimber Well	10.6	82	111-140	<p>Nice spruce with other species to west and south. SCA= deeryard.</p>
126	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	3.3	40	1-50	<p>OPIC - FMD: Stand was strip cut. Mostly black ash saplings mixed with balsam fir and paper birch. Scattered red maple, cedar and balsam in overstory. 98=25,20,21 Stand Condition 8 = SCA, deeryard.</p>
127	6118 - Lowland Deciduous with Cedar	Poletimber Medium	11.9	85	51-80	<p>2017: Wet stand. Water flowing through it as sheet flow towards Manistique River. Muck soils. B Ash dominates. Pole stand but a lot of b ash saplings throughout as well. Deer using stand as wintering deer yard. Trails present.</p> <p>2007: Stand is in low/soft ground. Looks like this stand is a topo relief - water moves through soil. Lowland hardwood/conifer species, not great quality. Mixed ages - old timber overtopping sapling sized tree species - mostly black ash saps. SCA= deeryard.</p>
128	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	20.7	92	111-140	<p>2017: Stand has some "upland" areas but also has standing water at many times of the year. Black ash prevalent in wet areas. Some very nice cedar pockets in stand. Cedar is straight and tall in places. BA from 90-200. Deer using stand as wintering deer yard.</p> <p>2007: Scattered hemlock and spruce in stand as well. 99=03,04 Soil=Lupton/Tawas/Carbondale complex. SCA= deeryard.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
129	6120 - Lowland Cedar	Poletimber Well	7.6	92	141-170	<p>2017: Very nice cedar stand. Thick with little understory. Cedar has quality. Thick canopy closure. Not nearly as wet as adjacent stands to west. Deer using stand extensively for wintering.</p> <p>2007: Deer yarding in here now. SCA= deeryard.</p>
130	6119 - Mixed Lowland Deciduous Forest	Sapling Well	15.4	35	1-50	<p>2017: Stand was cut over. Mainly sapling sized trees. Stand in wet soil types, and south half is standing water. North half is more "upland".</p> <p>2007: Stand was mostly cut over in 1981-82; T.Sale#4-81A. Lowland hardwood/lowland conifers. Some cedar scattered throughout. Soil=Lupton/Tawas/Carbondale complex. 99=41,03,04,10,02 98=25,22,20 SCA= deeryard.</p>
131	6120 - Lowland Cedar	Poletimber Well	4.0	107	81-110	<p>2017: Stand is wet, gets even wetter to south. Standing water.</p> <p>2007: 99=03,41,10,04 SCA= deeryard.</p>
132	6120 - Lowland Cedar	Poletimber Poor	9.7	107	1-50	<p>2017: Very wet stand. Cat tails. Mucky soil types. Marginal non-forest cover type. Low productivity.</p> <p>2007: Lowland hardwoods; some lowland conifers - mostly cedar. Suppressed trees. Soil=Lupton/Tawas/Carbondale complex. 99=41,03,04,02 SCA= deeryard.</p>
135	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	13.6	95	81-110	<p>Stand borders Manistique River. Difficult to access, boat is best way. Deer use stand for wintering. E/Q type. Soil=Hendrie SCA= deeryard.</p>
136	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.5	105	111-140	<p>Borders Manistique River. Difficult stand to access via land. No existing roads. Boat would be the quickest. Deer use stand for wintering. Soil=Lupton/Tawas/Carbondale complex. SCA= deeryard.</p>
137	42390 - Mixed Non- Pine Upland Conifers	Sawtimber Well	22.9	110	141-170	<p>Difficult stand to access, no existing roads. A boat would be the quickest. Decent hemlock/lowland conifer stand. Deer use stand as wintering area. Upland mixed with lowland. Soil=Lupton/Tawas/Carbondale complex. SCA= deeryard.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
3	310 - Herbaceous Openland	2.0	No	Grass opening. Looks to have been an old pasture field. Evidence of old fence posts surrounding opening. Scattered trees filling in opening, with more around the perimeter.
4	500 - Water	7.5	No	E. Branch Fox River.
8	6233 - Wet Meadow	3.8	No	Marsh lowland. Tag alder on edges and west end of stand. Cat-tails in the middle. Water moves through marsh towards the west. SCA= deeryard.
11	622 - Lowland Shrub	4.3	No	Water moves through stand. Low/wet/mucky ground. Surrounded by suppressed lowland conifers. SCA= deeryard.
32	3301 - Low Density Deciduous Tree	1.6	No	99=49,03,10,01 98=21,20 Ground cover is bracken fern, grass, raspberry brush, hazel brush and tree seedlings. SCA= deeryard.
51	6229 - Mixed lowland shrub	54.9	No	Lowland Brush - tag alder flanking the E. Branch Fox River. SCA= deeryard.
56	6220 - Alder/willow	6.3	No	Lowland brush -tag alder. SCA= deeryard.
59	622 - Lowland Shrub	43.0	No	Lowland brush/marsh with scattered trees and snags. SCA= deeryard.
61	6224 - Treed Bog	6.6	No	OPIC - FMD: Soil=Dawson/Greenwood/Loxely peat.
72	6224 - Treed Bog	8.8	No	Suppressed spruce / lowland conifers.
75	623 - Emergent Wetland	70.9	No	Wide open marsh; leatherleaf, grasses and low shrubs for ground cover. Soil=Greenwood/Dawson/Loxely peat.
87	122 - Road/Parking Lot	3.0	No	Gravel access road to Mills Bay public access boat site. Stand is the North 100' of govt. lot 1 which gives access to govt. lot 2. 60' ROW is maintained by PRD. ROW contains some trees.
88	6229 - Mixed lowland shrub	24.3	No	Lowland Brush - tag alder flanking the E. Branch Fox River. SCA= deeryard.
93	122 - Road/Parking Lot	1.0	No	Parking lot for Mills Bay North Side public boat access site, maintained by the Parks and Rec. Division.
99	122 - Road/Parking Lot	1.3	No	County Road 477 ROW.
109	3102 - Grass	1.8	No	Utility line R.O.W. that is active and maintained.



Stand	Cover Type	Acres	Managed Site	General Comments:
123	500 - Water	16.9	No	Manistique River and Little Mud Lake Creek
124	3301 - Low Density Deciduous Tree	1.1	No	Old opening filling in with trees/shrubs. Also road to DNR boat launch runs through stand. Soil=Solona.
133	6229 - Mixed lowland shrub	5.1	No	Cat tails. Soil=Aquents/Histosols SCA= deeryard.
134	6229 - Mixed lowland shrub	2.4	No	Soil=Aquents/Histosols