



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42003

Entry Year 2020

Acreage: 2,869

County Luce

Management Area: Deer Park

Revision Date: 2018-08-30

Stand Examiner: Jennifer Burnham

Legal Description:

T49N R12W Sections 7, 17, 18, 27-34; T48N R12W Section 6

Identified Planning Goals:

Timber, wildlife and recreation are the main uses of this area. The goal is to manage for 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:

Topography is variable throughout the compartment with a complex of uplands and lowlands. The soils are mostly complexes as well due to the upland and lowland nature of the landscape. Most of the uplands are dominated by beech-maple-hemlock, white pine-hemlock forest types where the topography is level to rolling with steep ridges mixed throughout and the major soil types are Rousseau, Wallace, Garlic, Bodi and Frohing. The lowland areas are relatively level and dominated by mixed conifer swamp and shrub/emergent marsh cover types. They mostly consist of soil complexes such as Tawas/Spot/Finch, Lupton/Tawas, and Dawson/Greenwood/ Loxely.

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

The compartment consists of broken state ownership surrounded by private land. The majority of the private land is commercial forest land and is either owned by Heartwood Forestland Fund IV or The Nature Conservancy (TNC). The remaining private land is individually owned and is scattered. Some of the individually owned private land parcels contain structures that primarily serve as recreation cabins and/or hunting camps. The compartment's west boundary is the Alger County line. Predominate land use in the area is mostly involves timber production and recreation (hunting, camping, ORV and snowmobile riding, dog sledding, hiking, berry picking, wildlife/nature viewing).

Unique Natural Features:

Unique features to the compartment would be the Barfield Lakes complex. It has been identified as an ecological reference area (ERA) because of its complex of several high-quality natural communities.

Archeological, Historical, and Cultural Features:

The Bureau of History does not list any historical features.

Special Management Designations or Considerations:

The Barfield Lakes Complex located within the compartment boundary has been identified as an Ecological Reference Area (ERA). Any land management decisions made in the area must consider the ERA.

Watershed and Fisheries Considerations:

Fisheries Values: Good

The North Branch Two Hearted River flows through the southern portion of this compartment. The Sucker River also is in close proximity to the northern portion of the compartment. Both streams are designated trout streams supporting native Brook Trout populations. Although access is difficult to the North Branch Two Hearted River, anglers do utilize this fishery for the additional 5-fish bag limit for Brook Trout that it carries. Prescribed treatments in this compartment do not appear to be in close proximity to any waterbodies. Fisheries Division does not have any concerns at this time.

Wildlife Habitat Considerations:

Compartment 3 lies in the far northern portion of Luce county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and the Deer Park Management Area with Kirtland's warbler, American marten, piping plover and red crossbill as featured species. The Barfield lakes complex ERA lies in the western portion of the compartment and much of the compartment is roadless and composed of mature timber types. State owned lands are intermixed with timber company lands that have been managed. This compartment contains a variety of forest types and maintains good within stand diversity which is important in determining the diversity of wildlife inhabiting the area.

Wildlife objectives will be met by maintaining as much species diversity in harvested stands as possible. In general, some conifers will be maintained in hardwood thinnings to increase stand diversity, provide nesting, denning and forage sites and cover. Harvests adjacent to the ERA will be carefully reviewed in order to not cause erosion into wetland components. Wildlife species potentially using this compartment include white-tailed deer, moose, black bear, gray wolves, coyote, otter, grouse, fisher and marten.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are not located in the area. There does appear to be some sand & gravel potential within the compartment. However, much of the compartment appears to be covered by wetlands, which would inhibit surface development. There is no known metallic mineral potential in this area, and there is no potential for economical production oil and gas in the UP.

Vehicle Access:

The compartment can be accessed via County Road 416, the Barfield Lakes Road and several two tracks that lead into various parts of the compartment. Most if not all of the roads in this compartment were created by past logging activities on both State and private land. Currently some of these roads are only passable by 4-wheel drive vehicle and many of them are not well traveled. Because of this some roads have become abandoned and overgrown with trees making areas of the compartment relatively remote and difficult to access by vehicle.

Survey Needs:

Corners will be needed to facilitate treatments in Section 6, T48N R12W; as well as T49N R12W Section 29 E1/2SE and Section 33 SE1/4.

Recreational Facilities and Opportunities:

Recreational opportunities include hunting, fishing, dog sledding, hiking, ORV and snowmobile riding, berry picking and wildlife/nature viewing. There are a few camps on private land that are adjacent to and within the compartment boundary.

Fire Protection:

Potential for large fire runs would be low, fires should remain low intensity because of swamp and hardwood types in this compartment. In some areas access with heavy equipment may require extra effort or may not be accessible with wheeled vehicles for fire suppression activities.

Additional Compartment Information:

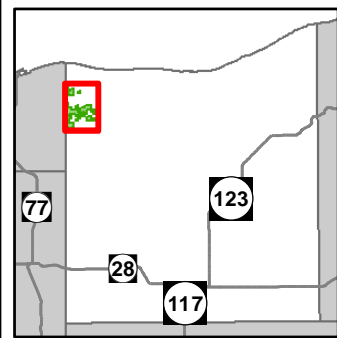
The following reports from the Inventory are attached:

- 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:

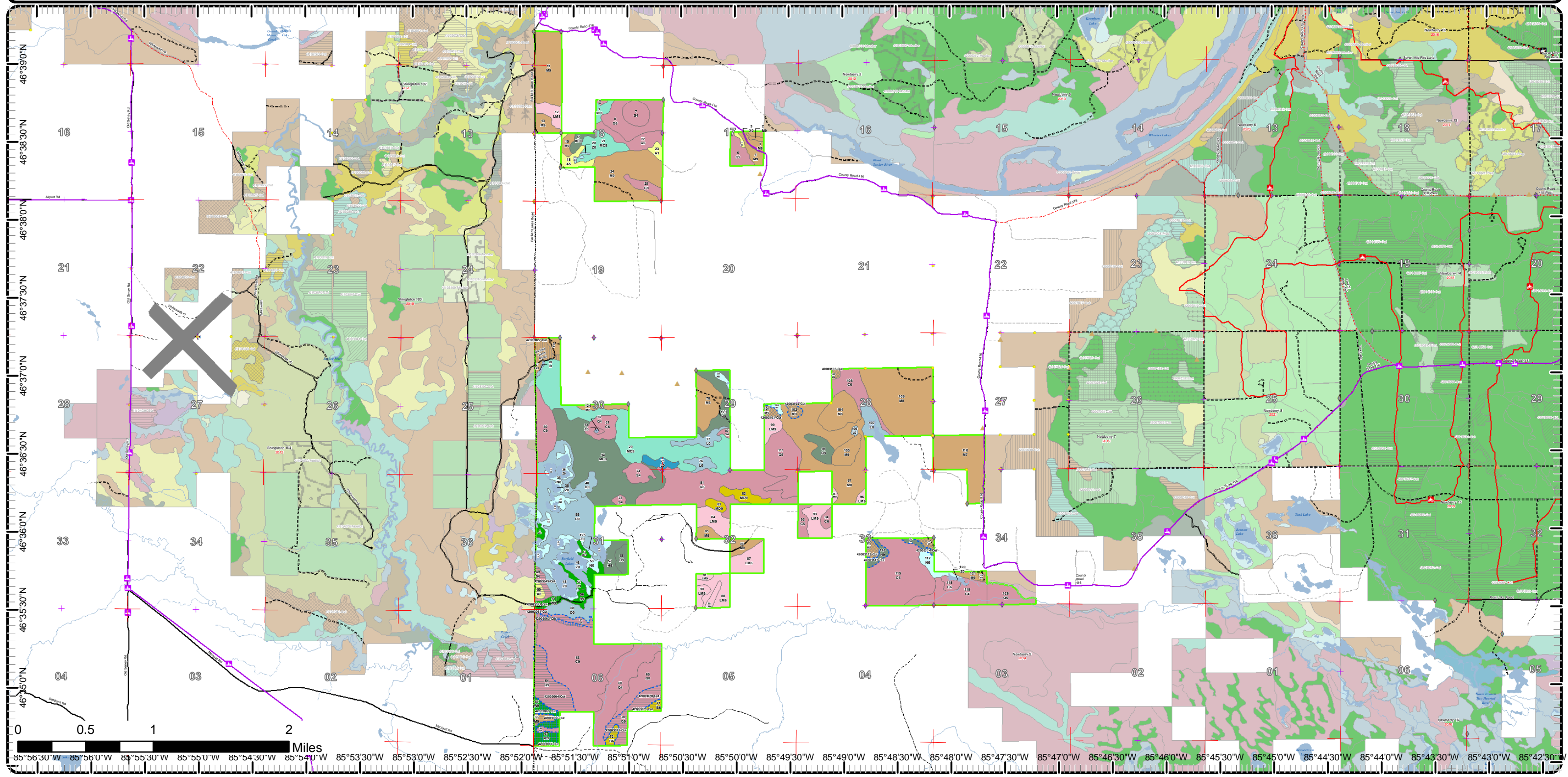
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

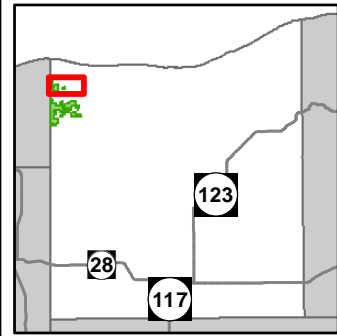


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 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2020
 Acres: 2,869 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 4/23/2019
 Map Phase: Post-Review

- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - County - Dirt Road (Seasonal)
- - Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

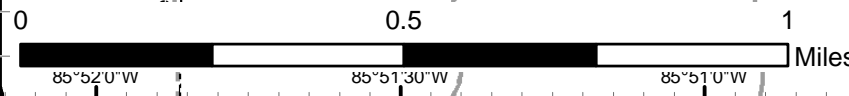
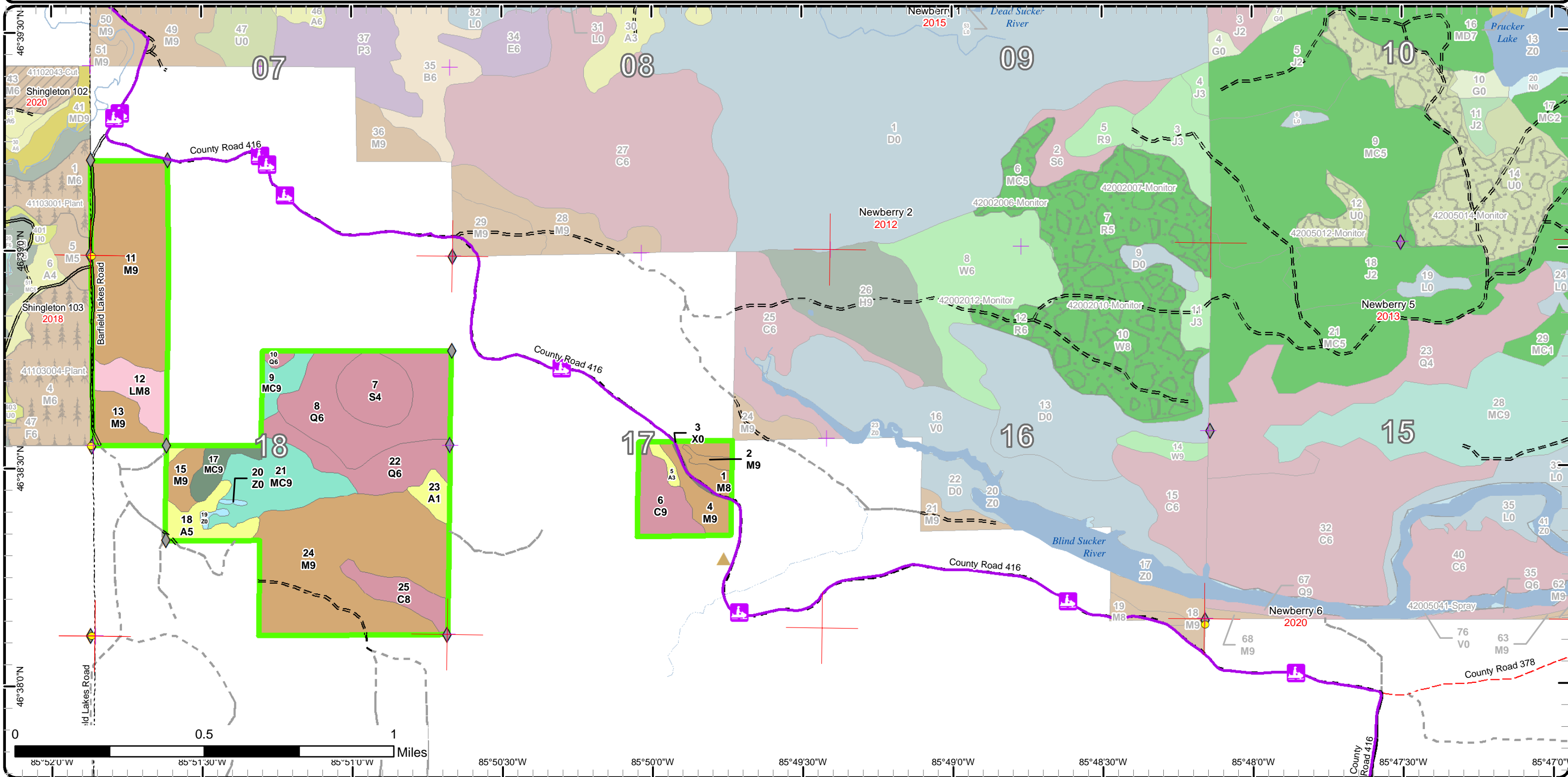


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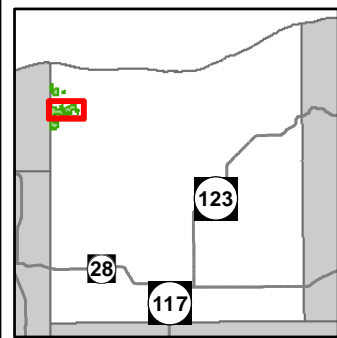
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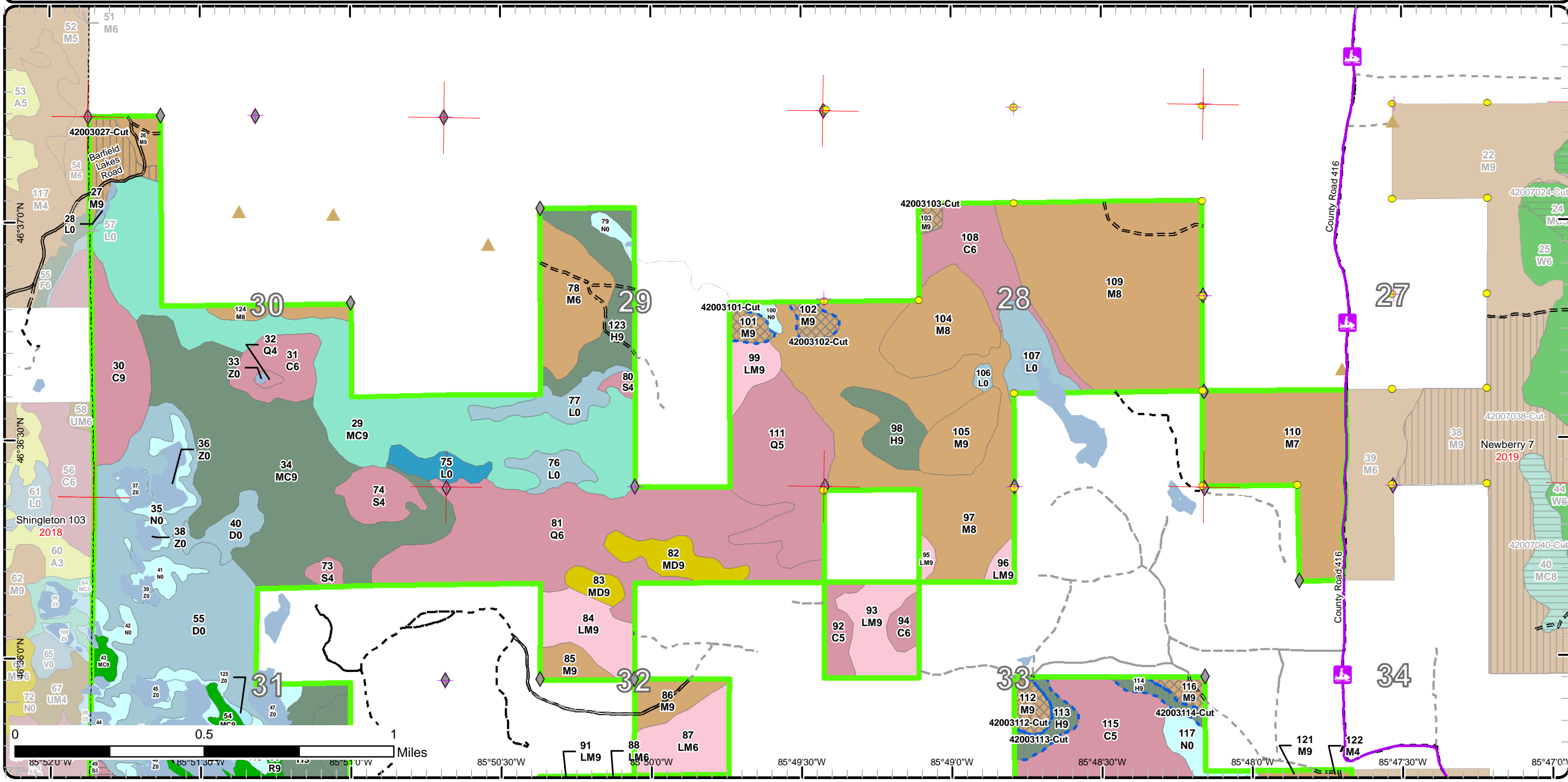
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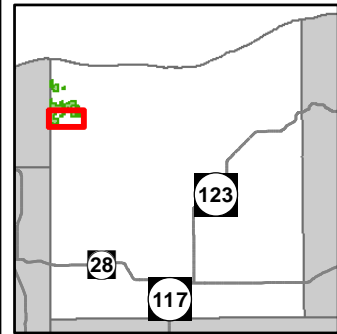


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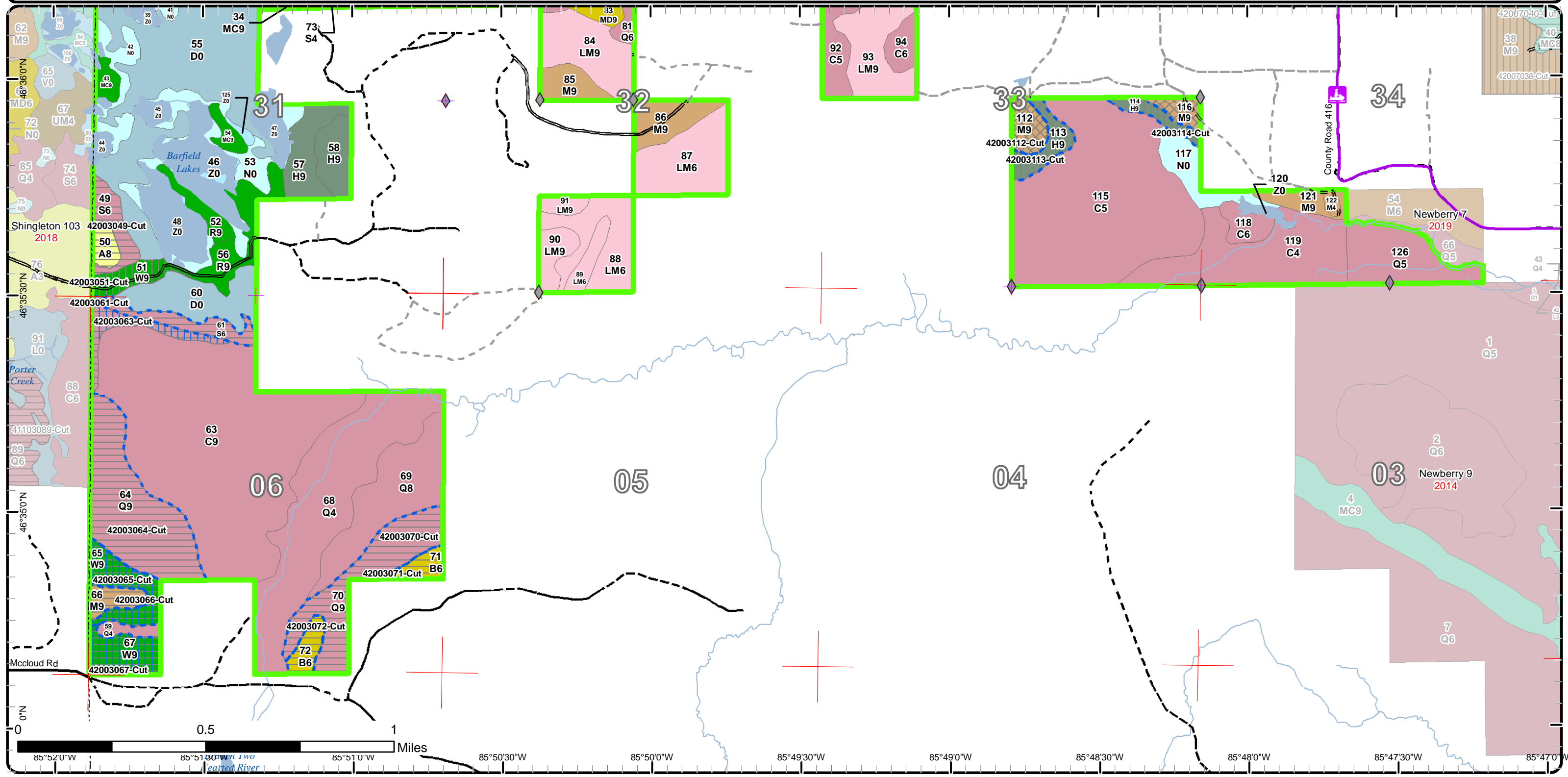


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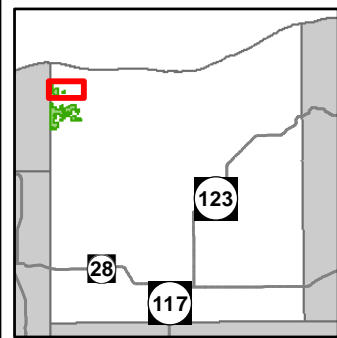


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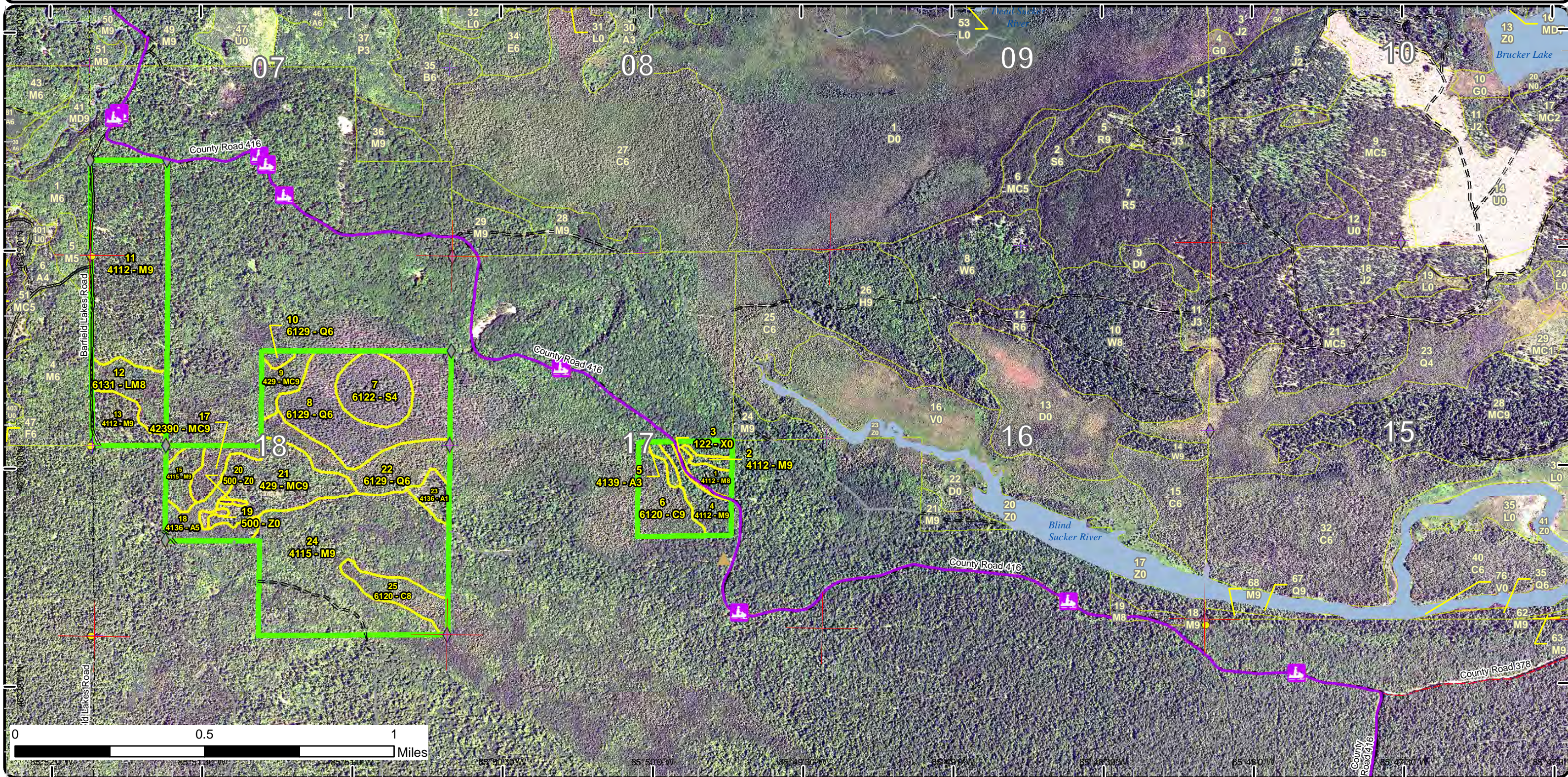


Stand Boundary Map



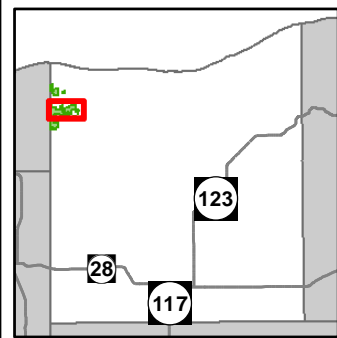
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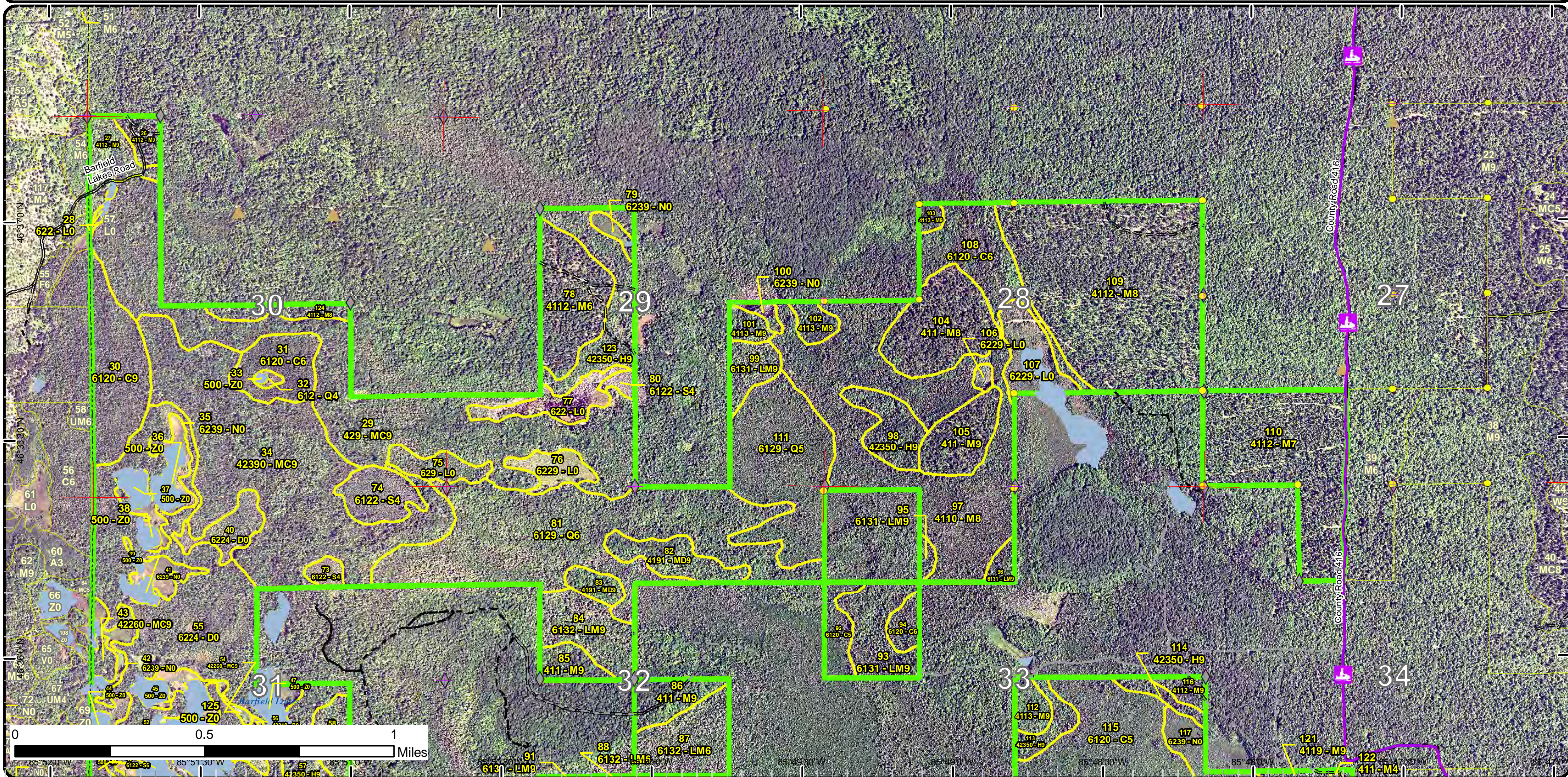


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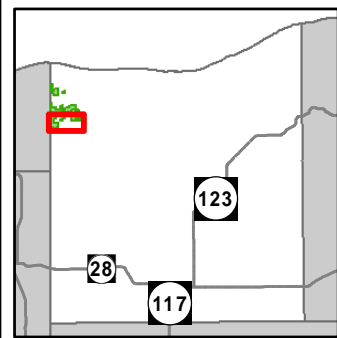
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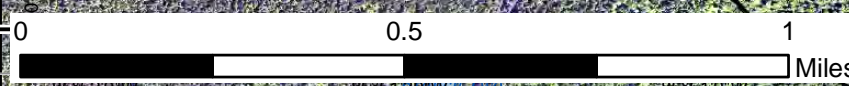
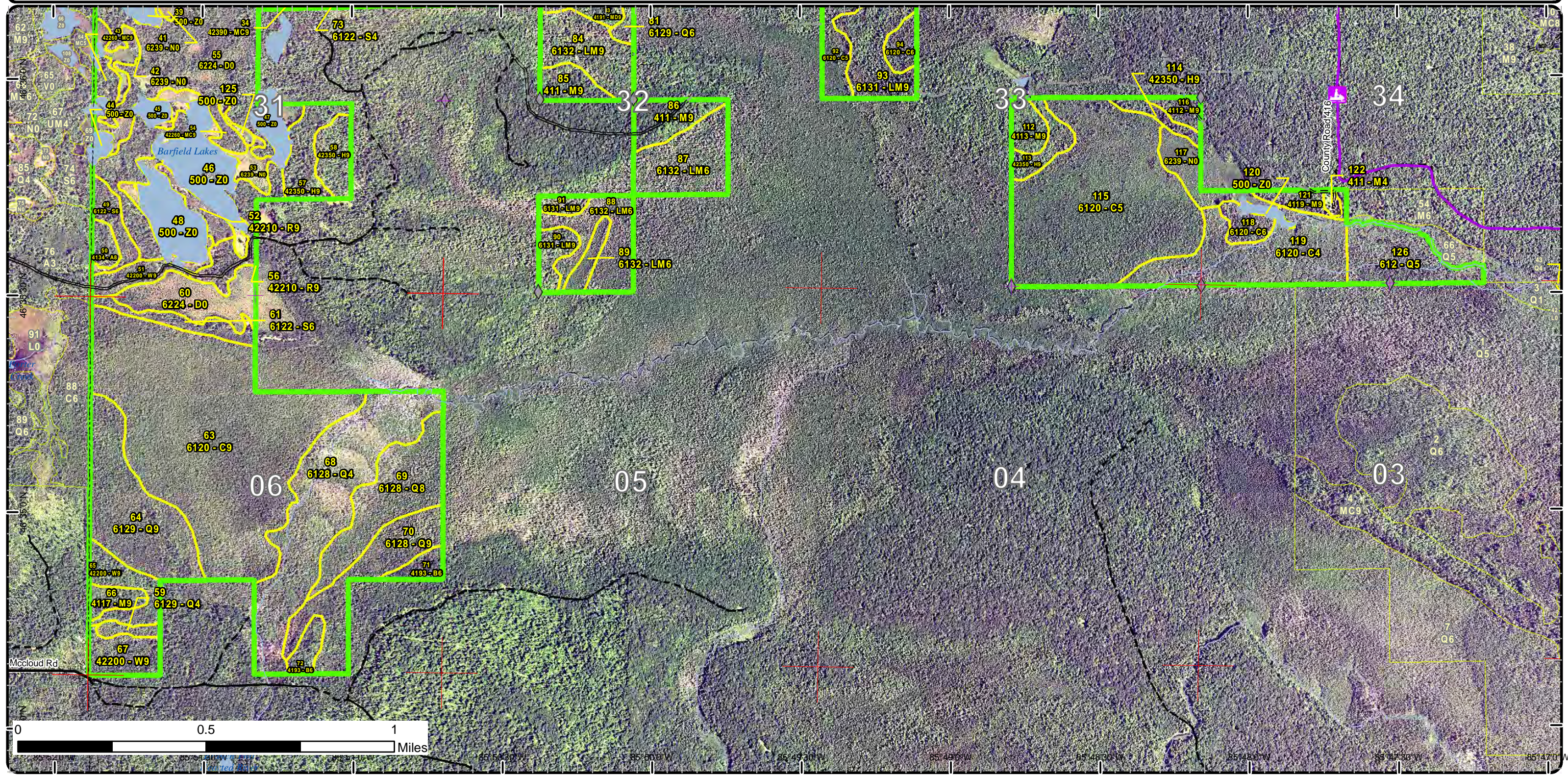


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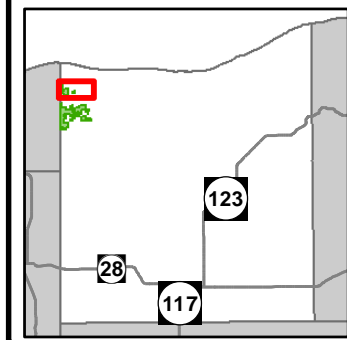
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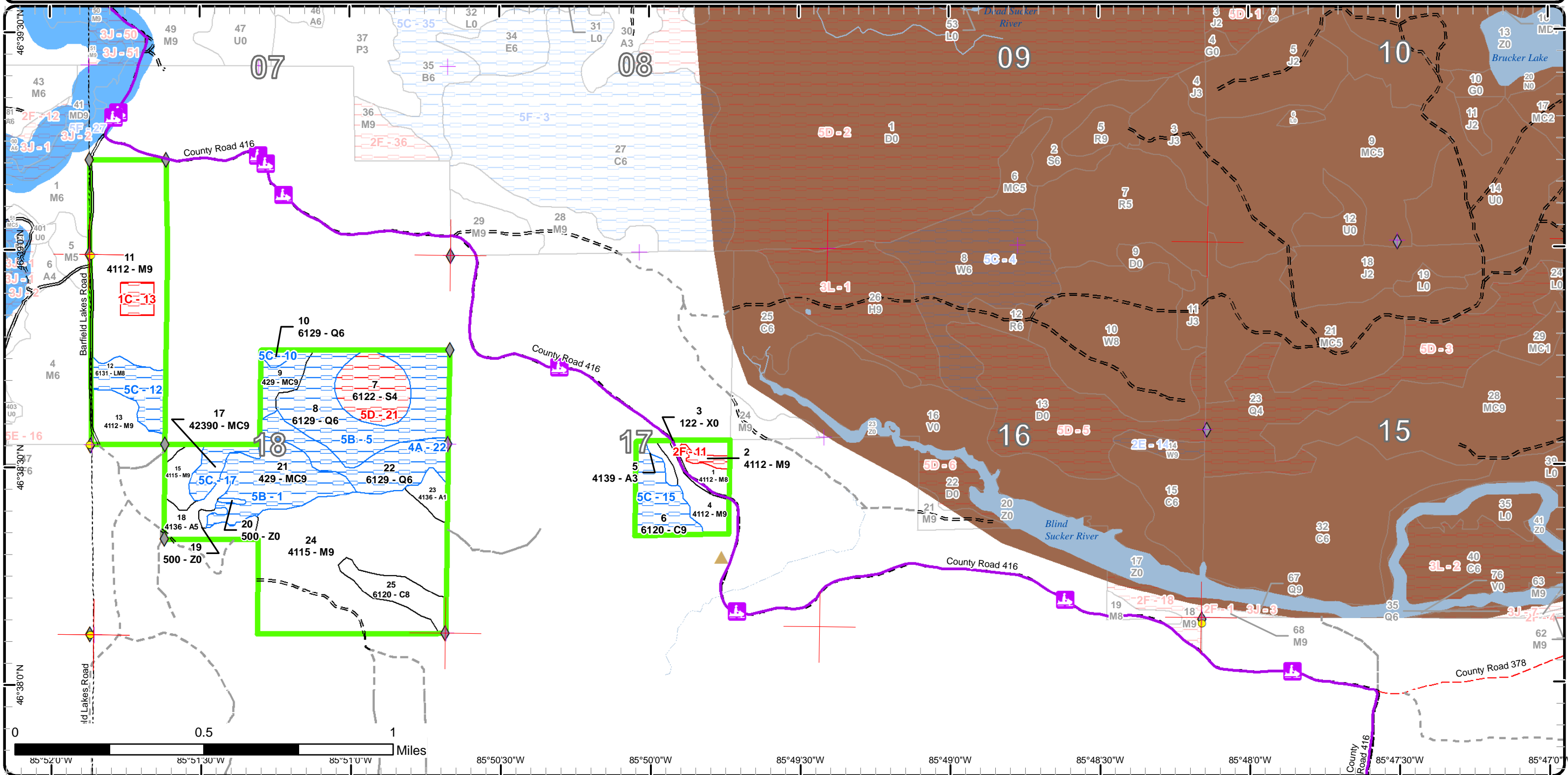
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Special Conservation Areas & Site Conditions Map

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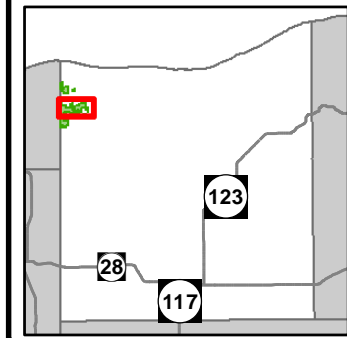


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 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
 - Stand Boundaries
 - Cold Water Streams
 - High Priority Trout Stream Buffer
 - Wildlife Management Areas
- 4A: No Markets Available for these Forest Products
 5B: Maintain for regeneration purposes
 5C: Delay treatment for age/size class diversity or exceptional site quality
 1C: Other dept or div proc/practices
 2F: Too steep
 5D: Unproductive Forest Land

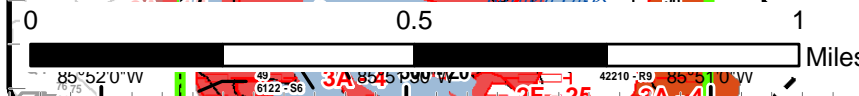
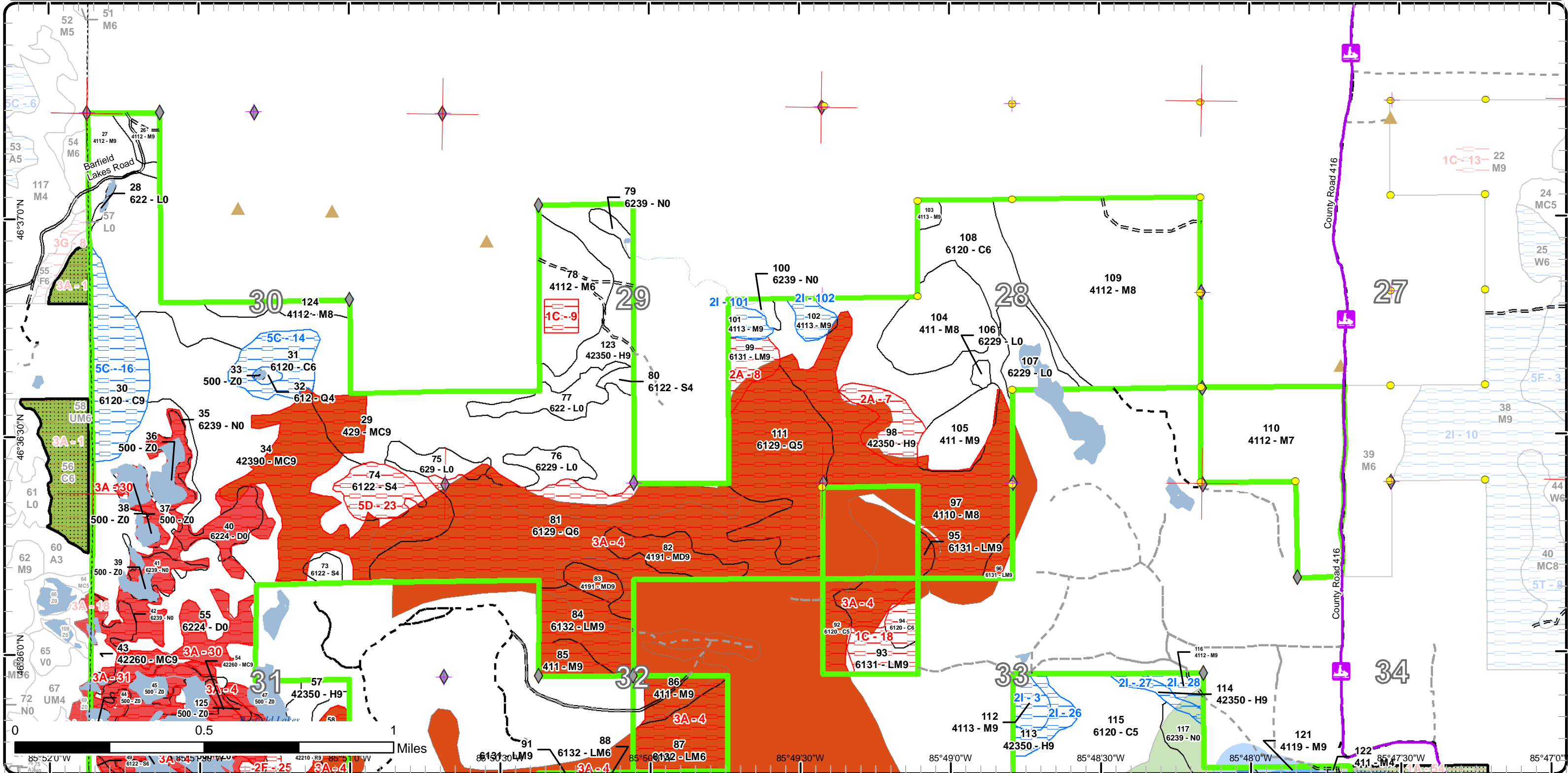


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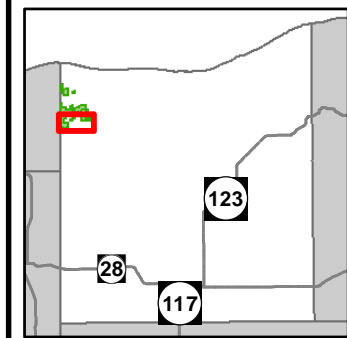
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|--|---|---|



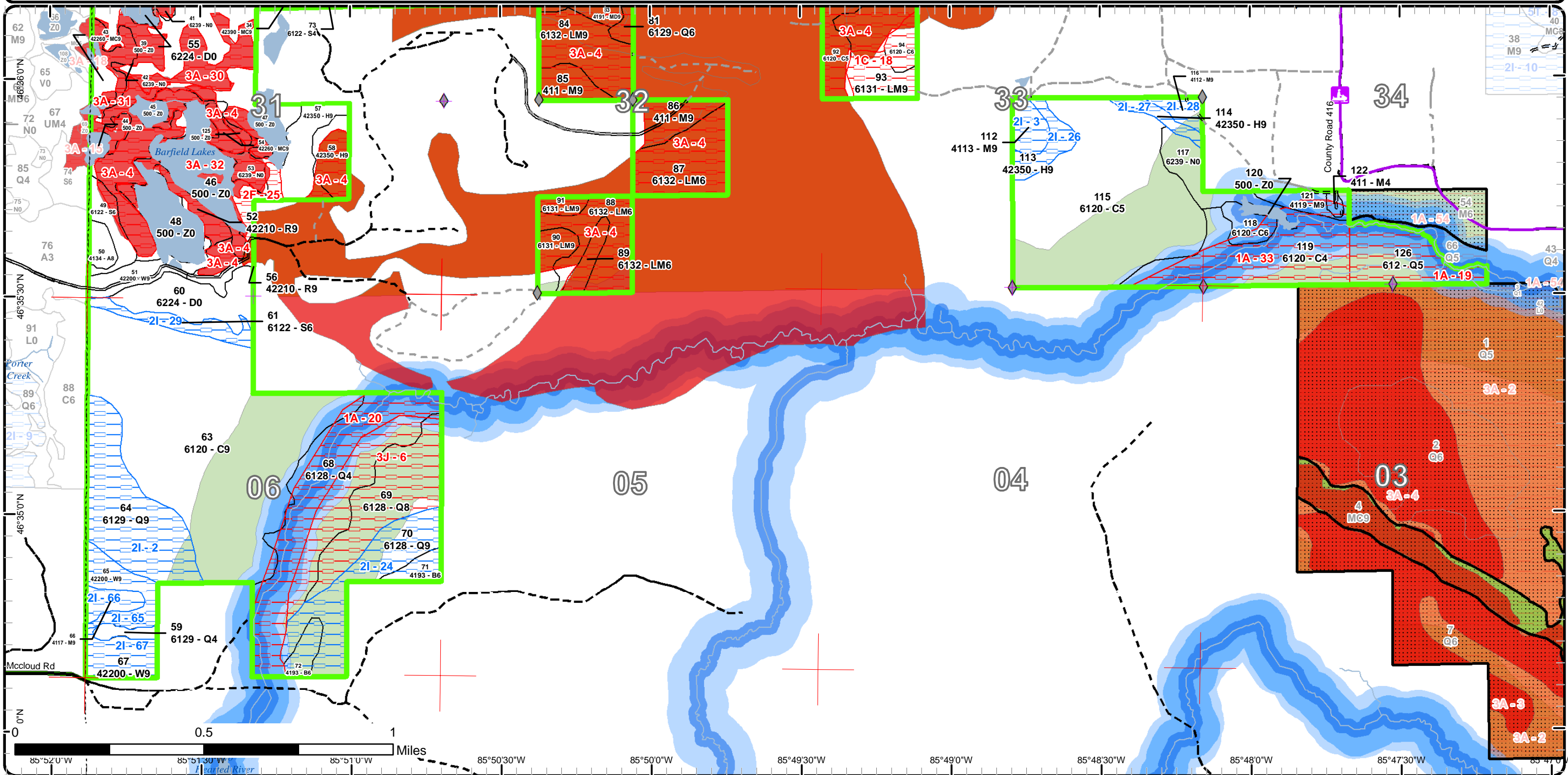
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- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
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- Natural Beauty Roads
- Cold Water Streams
- Cold Water Lakes
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- Verified Type 2 Old Growth
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Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 3

Year of Entry 2020

Jennifer Burnham : 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	6	2	0	0	13	0	5	0	0	0	0	0	0	0	0	0	0	26
Cedar	0	0	0	0	0	0	0	0	0	0	0	117	234	55	0	0	69	11	486
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	76	90
Lowland Conifers	0	0	0	0	0	0	0	0	0	26	1	0	0	83	0	0	329	63	502
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	23	110	147
Lowland Shrub	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Lowland Spruce/Fir	0	0	0	0	0	0	0	9	3	0	50	0	0	0	0	0	0	0	62
Marsh	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4	8
Northern Hardwood	0	0	0	0	0	10	0	16	0	0	299	0	0	0	0	0	7	422	754
Paper Birch	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Red Pine	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	16	0	22
Treed Bog	163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	301	346
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	8	35
Total	358	6	2	0	0	23	0	30	14	26	365	127	234	210	0	0	458	1018	2870



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 3
Total Compartment Acres: 2,869

Commercial Harvest - 49
 Harvests with Site Condition - 176
 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	5	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	9	0	0	0	0	0	9
Hemlock	0	0	0	0	14	0	0	0	0	14
Lowland Conifers	83	0	0	0	0	0	0	0	0	83
Lowland Spruce/Fir	19	0	0	0	0	0	0	0	0	19
Northern Hardwood	6	27	0	0	16	0	0	0	0	49
Paper Birch	11	0	0	0	0	0	0	0	0	11
White Pine	0	0	0	27	8	0	0	0	0	35
Total	124	27	0	36	38	0	0	0	0	225

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	225	0	0	0	0	0	0	0	0	225
Next Step	0	0	0	0	0	0	225	0	0	225
Total	225	0	0	0	0	0	225	0	0	451



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
27	42003027-Cut	15.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	69	81-110	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Leave white pine, cedar and hemlock where present.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Northern hardwoods mix and conifers.Regen:OtherComment:Proposed Start Date: 10/1 /2019

49	42003049-Cut	8.9	6122 - Black Spruce	Poletimber Well	69	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Final harvest leaving cedar, white pine and some wind firm spruce on the edges for a seed source. Buffer bog types appropriately, there is aSpecs: boggy area in the south end of stand between stands 50 and 51. Buffer will serve as retention.Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Black spruce and lowland conifers.Regen:OtherComment:Proposed Start Date: 10/1 /2019

50	42003050-Cut	4.8	4134 - Aspen, Spruce/Fir	Sawtimber Medium	69	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription No retention due to small acreage. However leave any hemlock if present.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Aspen and other spp that are currently present.Regen:Other There are a couple areas with steep slopes that may not be operable.Comment:Proposed Start Date: 10/1 /2019

51	42003051-Cut	8.3	42200 - Natural White Pine	Sawtimber Well	182	81-110	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Mark to reduce BA down to 50-80 to promote openings for conifer regeneration. Buffer bog per BMP guidance. Treatment acreage may beSpecs: reduced due to topography and potential buffers.Next Step Monitoring, Natural Regen (Intermediate)Treatments:Acceptable white, red pine, other conifers and some hardwood species.Regen:OtherComment:Proposed Start Date: 10/1 /2019



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
61	42003061-Cut	9.7	6122 - Black Spruce	Poetimber Well	99	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition: Survey Needed

Prescription Final harvest leaving wind firm white pine and cedar. No cut hemlock if present. No 100' buffer on bog, use unmerchantable trees as BMP buffer and retention." Treatment clearcut, no retention technically required due to small acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Lowland conifers and hardwood spp that are currently present.

Regen:

Other survey may be needed.

Comment:

Proposed Start Date: 10/1 /2019

63	42003063-Cut	8.9	6120 - Lowland Cedar	Sawtimber Well	117	111- 140	Harvest	Seed Tree with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Final harvest all species leaving some retention pockets of cedar and other species that are present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable cedar and other lowland conifers with a mix of lowland hardwoods.

Regen:

Other Harvest is only possible if cedar can be cut.

Comment:

Proposed Start Date: 10/1 /2019

64	42003064-Cut	49.5	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	121	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition: Survey Needed

Prescription Final harvest stand. Leave some larger white pine and all hemlock. Possibly combine with an adjacent Shingleton tsale.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Lowland conifer species and associated deciduous species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

65	42003065-Cut	14.0	42200 - Natural White Pine	Sawtimber Well	121	81-110	Harvest	Seed Tree with Retention	42201 - Natural White Pine, Mixed Deciduous	Two-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition: Survey Needed

Prescription Final harvest leaving up to 30 BA of wind firm white pine and hemlock. Possibly combine with an adjacent Shingleton tsale.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White pine and other mix deciduous spp.

Regen:

Other OPIC - FMD: Large scattered white pine in the overstory. Mixed bag of species in the stand. If treated remove aspen, red maple, spruce,

Comment: balsam, p.birch ans some white pine. Stand on PVT land (TFG) the west was harvested this winter (07-08) Blue line is in.

Proposed Start Date: 10/1 /2019



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
66	42003066-Cut	6.1	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	97	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition: Survey Needed

Prescription Final harvest leaving hemlock. Also leave a minor component yellow birch and cherry for diversity. Possibly combine with an adjacent
Specs: Shingleton tsale.

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

Acceptable Regeneration of spp that are already present.
Regen:

Other OPIC - FMD: If treated leave some hemlock, cedar and yellow birch. Beech is dying from scale. 99=01,04 98=25,39,20,22 Soil=Finch
Comment:

Proposed Start Date: 10/1 /2019

67	42003067-Cut	12.9	42200 - Natural White Pine	Sawtimber Well	121	81-110	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition: Survey Needed

Prescription Final harvest leaving up to 30 BA of wind firm white pine and hemlock. Possibly combine with an adjacent Shingleton tsale.
Specs:

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

Acceptable Regeneration will be spp that are present now.
Regen:

Other OPIC - FMD: Lowland conifers with scattered islands of WP, most WP is tall and decent quality. 99=03,04 Soil=Spot/Finch Complex. Will need
Comment: more survey corners it treatment is to occur.

Proposed Start Date: 10/1 /2019

70	42003070-Cut	33.8	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	121	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition: Survey Needed

Prescription Final harvest leaving some patch retention. Focus patch retention in conifer, especially those area with higher BA of cedar. Leave all hemlock.
Specs: Possibly combine with an adjacent Shingleton tsale.

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

Acceptable Lowland conifer
Regen:

Other didn't see on bare ground. Should check for small drains. Survey maybe needed.
Comment:

Proposed Start Date: 10/1 /2019

71	42003071-Cut	5.4	4193 - Birch, Aspen Poletimber	Well	79	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition: Survey Needed

Prescription Final harvest leaving all hemlock. Possibly combine with an adjacent Shingleton tsale.
Specs:

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

Acceptable Regeneration will be those spp that are already present.
Regen:

Other OPIC - FMD: Mix of birch, aspen, lowland poplar and lowland conifers/hardwoods. TFG is preparing their land for timber harvest to the south. It
Comment: may be a good time to harvest this for the effort involved with such a small acreage of timber.

Proposed Start Date: 10/1 /2019



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
72	42003072-Cut	5.8	4193 - Birch, Aspen	Poletimber Well	79	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition: Survey Needed

Prescription Final harvest leaving all hemlock. Possibly combine with an adjacent Shingleton tsale.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regeneration will be the same spp that are present now.

Regen:

Other OPIC - FMD: Mix of birch, aspen, lowland poplar and lowland conifers/hardwoods. TFG is preparing their land for timber harvest to the south. It may be a good time to harvest this for the effort involved with such a small acreage of timber.

Comment:

Proposed Start Date: 10/1 /2019

101	42003101-Cut	5.4	4113 - R.Maple, Conifer	Sawtimber Well	99	111-140	Harvest	Group Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition: Survey Needed

Prescription Mark to promote diversity. Leave all hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods

Regen:

Other OPIC - FMD: Stand is mostly old timber and large diametered. Not great quality in the hardwoods, decent in the conifers (white pine, hemlock and spruce). Beech is dying from scale. Regen throughtout.

Comment:

Proposed Start Date: 10/1 /2019

102	42003102-Cut	6.3	4113 - R.Maple, Conifer	Sawtimber Well	99	81-110	Harvest	Group Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition: Survey Needed

Prescription Mark to promote hardwood spp. Leave all hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood.

Regen:

Other OPIC - FMD: Stand is mostly old timber and large diametered. Not great quality in the hardwoods, decent in the conifers (white pine, hemlock and spruce). Beech is dying from scale. Regen throughtout.

Comment:

Proposed Start Date: 10/1 /2019

103	42003103-Cut	2.8	4113 - R.Maple, Conifer	Sawtimber Well	99	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Mark to promote regeneration of hardwoods. Leave all hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods.

Regen:

Other OPIC - FMD: Stand has decent maple but not great quality. May be possible to treat with adjacent TFG land while they treat their land, looks like they are preparing it for harvest. Would have to cross their land for access. Soil=Deerton.

Comment:

Proposed Start Date: 10/1 /2019



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
112	42003112-Cut	7.6	4113 - R.Maple, Conifer	Sawtimber Well	99	111- 140	Harvest	Group Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Mark to promote hardwood regeneration. Leave all hemlock.											
<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> OPIC - FMD: Stand is mostly old timber and large diametered. Not great quality in the hardwoods, decent in the conifers (white pine, hemlock											
<u>Comment:</u> and spruce). Beech is dying from scale. Regen throughout.											
<u>Proposed Start Date:</u> 10/1 /2019											
113	42003113-Cut	8.8	42350 - Upland Hemlock	Sawtimber Well	182	111- 140	Harvest	Shelterwood with Retention	4312 - Hemlock, Mixed Deciduous	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Shelterwood with reserves. Cull all species except hemlock as necessary for operability. Leave a component of large white pine as it exists.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Hemlock and other associated coniferous and deciduous tree species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
114	42003114-Cut	5.4	42350 - Upland Hemlock	Sawtimber Well	182	111- 140	Harvest	Shelterwood with Retention	4312 - Hemlock, Mixed Deciduous	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Shelterwood with reserves. Cull all species except hemlock as necessary for operability. Leave a component of large white pine as it exists.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Hemlock and associated coniferous and deciduous tree species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
116	42003116-Cut	5.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	99	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Mark to promote hardwood regeneration. Leave all hemlock.											
<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> OPIC - FMD: Hardwood stand that has some large diametered hardwood trees. Trees are of poor quality, overmature and defective. Beech has											
<u>Comment:</u> scale and is dying.											
<u>Proposed Start Date:</u> 10/1 /2019											

**Total Treatment
Acreage Proposed: 225.3**

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 3
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions												
		With Condition	Not Available		2I	4A	5B	5C	1A	1C	2A	2F	3A	3G	3J	5D	
25	25	0	0	Aspen		0	0	0									
486	347	75	65	Cedar	0			75	48	6			11				
90	49	14	27	Hemlock	14						17	0	10				
503	9	158	336	Lowland Conifers	83	25	48	2	73				200			64	0
148	4	15	129	Lowland Mixed Forest	0			15		12	11		106				
56	55	0	1	Lowland Shrub									1	0			
61	14	10	37	Lowland Spruce/Fir	10		0						2				35
81	29	0	52	Marsh					0			0	51				
23	0	0	23	Mixed Upland Deciduous									23				
8	4	0	4	Natural Mixed Pines									4				
752	604	30	117	Northern Hardwood	30	0	0	0	4	10	0	2	101				
11	0	11	0	Paper Birch	11												
22	6	0	16	Red Pine								6	10				
163	95	0	68	Treed Bog	0			0					68				
346	224	45	77	Upland Conifers		0	38	7					77				0
1	1	0	0	Urban													
57	23	0	34	Water					1				33				
35	8	27	0	White Pine	27												
2,869	1,499	385	985	Total Forested Acres	176	25	86	98	125	28	28	8	697	0	64	35	
	52%	13%	34%	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	Available	5B: Maintain for regeneration purposes	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	2I: Survey needed	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treating may stands around it. Still small dbh and low BA in places.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 3
Year of Entry: 2020

3	Available	2I: Survey needed	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3A: Conservation Values incompatible with harvest at this time	575	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Barfield Lakes ERA							
5	Available	5B: Maintain for regeneration purposes	56	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Many creeks and drains associated with NB Two Hearted River							
7	Unavailable	2A: Adjacent landowner denied access	17	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: TFG access. Evaluated for SBW.							
8	Unavailable	2A: Adjacent landowner denied access	11	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: TFG access. Evaluated for SBW.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 3
Year of Entry: 2020

9	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
Comments: Not a large enough stand to support harvest alone. Wait for surrounding stands.							
11	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep stand with a seasonal drain at the bottom.							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat areas that are possible when surrounding stands are ready for harvest.							
13	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: treat edges when surrounding stands are ready.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 3
Year of Entry: 2020

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat with surrounding stands.							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Not ready for treatment.							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wait to treat with surrounding stands.							
18	Unavailable	1C: Other dept or div proc/practices	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The south part of the stand is not in the ERA. It is in the process of exchanging with TNC.							
19	Unavailable	1A: Federal/State/Local Law	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: part of RMZ for Two heart							
20	Unavailable	1A: Federal/State/Local Law	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural river management zone. Many creeks and drains associated with NB Two Hearted River							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 3
Year of Entry: 2020

21	Unavailable	5D: Unproductive Forest Land	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	4A: No Markets Available for these Forest Products	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5D: Unproductive Forest Land	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	2I: Survey needed	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments: TNC did harvesting on their lands but the corners are rounded.							
25	Unavailable	2F: Too steep	6	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: This stand is also surrounded by an ERA. Wording for what is allowed near the area needs to be finalized before lines are put in.							
26	Available	2I: Survey needed	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 3
Year of Entry: 2020

28	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	2I: Survey needed	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3A: Conservation Values incompatible with harvest at this time	79	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
31	Unavailable	3A: Conservation Values incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
32	Unavailable	3A: Conservation Values incompatible with harvest at this time	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
33	Unavailable	1A: Federal/State/Local Law	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the Two Heart River corridor.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 3
Year of Entry: 2020

65	Available	2I: Survey needed	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
66	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
67	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
101	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
102	Available	2I: Survey needed	6	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							



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
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA	7
Comments Meets old growth criteria.				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA	28
Comments Meets old growth criteria.				
Barfield Lakes	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	Error	152
Comments Element Occurrence				
Barfield Lakes	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	Error	812
Comments Element Occurrence				



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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
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.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	7.8	91	51-80	Beech is basically dead. Lots of beech brush in the understory. OPIC - FMD: Most of stand was treated in 04'; Tsale#002-02. Beech that is in stand is heavily infested with Beech Bark Disease, dying and/or nearly dead.
2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.2	91	81-110	Very steep with a seasonal drain running some times of the year at the bottom, eventually flowing into stand 17 of the adjacent compartment. OPIC - FMD: Stand falls in a narrow but deep gully that drains towards the Blind Sucker Flooding. Water seasonally drains down gully.
4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.3	91	51-80	More conifer on the east edge and the skinny northern area. OPIC - FMD: Most of stand was treated in 04'; Tsale#002-02. Beech that is in stand is heavily infested with Beech Bark Disease, dying and/or nearly dead.
5	4139 - Aspen, Mixed Deciduous	Sapling Well	2.1	15	Immature	Stand is less than 5 acres but treated and a different timber type than surrounding stands. OPIC - FMD: Stand was treated in 2004; T.sale#002-02. Aspen and hardwood seedlings regenerated. Overstory of sawlog sized hardwood trees remain. 99=07,03,01. Most beech here is dying from scale.
6	6120 - Lowland Cedar	Sawtimber Well	17.0	121	81-110	Shallow soils with lots of blow down on the edges. Trees in the center of the stand become more stunted with more cedar and less of the other species. There is good cedar regeneration coming in under the areas with a more open canopy. OPIC - FMD: Stand is mostly cedar with a mix of other lowland conifers as well as hardwood species such as birch, black ash, red maple. Some large diameter cedar in here, 16"+. There is wood to treat here, but the quality is low. Stand may be better suited for wildlife habitat or a retention stand. Soil =Tawas/Spot/Finch Complex.
7	6122 - Black Spruce	Poletimber Poor	19.6	91	1-50	OPIC - FMD: Treed bog, suppressed spruce and tamarack. Center of stand has some larger/old white pine in overstory.
8	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	47.9	182	51-80	OPIC - FMD: Soil=Dawson/Greenwood/Loxely Complex
9	429 - Mixed Upland Conifers	Sawtimber Well	8.1	121	81-110	Good regen OPIC - FMD: Stand was treated in 1979; t.sale#033-79A. Looks like mostly hemlock and white pine was removed in a shelterwood type cutting. Abundant regeneration in hemlock, balsam fir, yellow birch, red maple and cedar. Lower areas support more of a cedar type, upland areas support more hemlock. Soil=Spot/Dawson Complex.
10	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	1.8	182	51-80	OPIC - FMD: Low quality lowland conifers. Cedar is old. Red Maple, p.birch, y.birch and white pine mixed in. Some elm/ash saplings as well. Lowland conifer reproduction throughout, a relatively nasty stand. Blowdowns throughout. Some cedar in here is 18"+. Q=20,25,22 E=41,03,04,10 Soil=Spot/Dawson.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
11	4112 - Maple, Beech, Cherry Association	Sawtimber Well	69.7	92	51-80	<p>BA is around 60-90, beech is basically dead. Fair quality with good tops for the other species. Trace amount of hemlock. TS in 76 then again in 2011. Because of beech mortality check again in 10 years to see if harvesting is possible.</p> <p>Stand harvested as sale #017-10-01, "Barfield Lakes Road Hardwoods". Complete 09/30/11. Regeneration check needed in 2015.</p> <p>OPIC - FMD: Stand is mostly low quality hardwood. Stand is variable with basal areas, treated in 1976; t.sale#18-72A. Thick understory of hardwood in most places, b.fir in others. Beech is dying from scale. Treat stand by removing most of the overstory and release hardwood regen. 98=21,20,39,30 Soil=Garlic</p>
12	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Medium	14.5	92	51-80	<p>Good timber on the higher ground. Timber in the center of the stand is smaller and stunted from the wet ground.</p> <p>OPIC - FMD: Stand is mostly a lowland conifer type. The edges of the stand are more upland and support hemlock/white pine type. The center of the stand is low/wet and supports more of a cedar/spruce type. Some old timber in this stand. Abundant regen in most conifer species. Timber quality is low for the most part.</p>
13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.6	92	51-80	<p>Stand treated in 76 and again in 2011. BA is 40-60. similar to stand 11 with the beech die out, wait 10 years and see if treatment in possible.</p> <p>Stand harvested as sale #017-10-01, "Barfield Lakes Road Hardwoods". Complete 09/30/11. Regeneration check needed in 2015.</p> <p>OPIC - FMD: Stand is mostly large diameter hardwood species, lower quality though. Stand was treated in 1976; T.sale#18-72A. Abundant saplings/seedlings in the understory. Remove overstory to release the regen. Beech is dying from scale. Soil=Garlic.</p>
15	4115 - Y.Birch, Hemlock NH	Sawtimber Well	7.5	40	81-110	<p>Good regeneration of all species. Conifer still filling into the understory with no browse.</p> <p>OPIC - FMD: Stand was treated in 1979; t.sale#033-79A. Looks like mostly hemlock and white pine was removed in a shelterwood type cutting. Abundant regeneration in hemlock, balsam fir, yellow birch, red maple and cedar. Lower areas support more of a cedar type, upland areas support more hemlock. Soil=Spot/Dawson Complex.</p>
17	42390 - Mixed Non- Pine Upland Conifers	Sawtimber Well	7.4	121	81-110	<p>Lots of blown down. Not an overly wet stand but shallow soils. Cedar and hemlock regen are good in the open canopy areas. If you can't harvest cedar stand would not be operable.</p> <p>OPIC - FMD: Low quality lowland conifers. Cedar is old. Red Maple, p.birch, y.birch and white pine mixed in. Some elm/ash saplings as well. Lowland conifer reproduction throughout, a relatively nasty stand. Blowdowns throughout. Some cedar in here is 18+". Q=20,25,22 E=41,03,04,10 Soil=Spot/Dawson.</p>
18	4136 - Aspen, Mixed Conifer	Poletimber Medium	12.8	42	51-80	<p>Nice regeneration and diversity. OPIC - FMD: Stand was treated in 1977; T.sale#022-73A. Nice stand of aspen. Stand is becoming pole sized now and it is tall and straight. Still a lot of trees 3" dbh, but many now 5-7" and 2-3 sticks tall. Soil=Wallace/Spot Complex.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	429 - Mixed Upland Conifers	Sawtimber Well	29.9	121	81-110	Nice stand with regeneration coming in well. Conifer is still filling in. OPIC - FMD: Stand was treated in 1979; t.sale#033-79A. Looks like mostly hemlock and white pine was removed in a shelterwood type cutting. Abundant regeneration in hemlock, balsam fir, yellow birch, red maple and cedar. Lower areas support more of a cedar type, upland areas support more hemlock. Soil=Paquin/Spot Complex.
22	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	25.1	182	51-80	Poor quality and high water table. When surrounding stands are ready for harvest there may be some areas that could be treated. Some blow down nearer the north area. OPIC - FMD: Low quality lowland conifers. Cedar is old. Red Maple, p.birch, y.birch and white pine mixed in. Some elm/ash saplings as well. Lowland conifer reproduction throughout, a relatively nasty stand. Blowdowns throughout. Some cedar in here is 18"+. Q=20,25,22 E=41,03,04,10 Soil=Spot/Dawson.
23	4136 - Aspen, Mixed Conifer	Sapling Poor	5.7	8	1-50	Stand harvested as sale #017-10-01, "Barfield Lakes Road Hardwoods". Complete 09/30/11. OPIC - FMD: Aspen in stand is large dimetered and old, beginning to fall down. Birch, r.maple, beech throughout. Large diametered hemlock on the north end of stand. Beech is dying from scale. Leave all conifers if treated. Stand to the east on TFG land has been prepared for harvest. May try to treat this stand at the same time if the timing works out. Soil=Wallace/Spot.
24	4115 - Y.Birch, Hemlock NH	Sawtimber Well	100.4	91	51-80	Wait another 10 years to treat when regen from harvest has a larger dbh and there is more BA. . OPIC - FMD: Stand was treated in 74-77'; two sales 22-73A and 20-74A. Thick saplings 2-5", mostly red maple, beech, y.birch that is becoming pole sized. Overstory of hardwoods; sugar maple, red maple, beech. Some hemlock and cedar as well. Rolling to somewhat steep topography throughout. Some aspen present. 99=01,03,07,04 Soil=Wallace/Spot.
25	6120 - Lowland Cedar	Sawtimber Medium	12.3	118	51-80	BA is close to the the 81-110 range. OPIC - FMD: Stand has some very large diametered cedar that is old, 18"+ dbh. Stand looks to be converting to maple/ash type. Thick sapling sized understory of red maple and black ash. Some cedar and b.fir reproduction. Stand is soft ground and seasonally wet.
26	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.2	92	51-80	Stand thinned in 79 and 2011. BA is around 80. Wait and treat with adjacent hardwoods. Stand harvested as sale #018-10-01, "South Barfield Hardwoods". Complete 09/30/11. Regeneration check needed in 2015. OPIC - FMD: Decent hardwood stand , sugar maple that is sawlog sized. Beech is dying from scale. Shelterwood and release saps. Remove beech and some maple.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.7	69	81-110	Beech is mostly dead. Beaver activity from stand 28 is causing flooding in the stand (mostly center) mortality is increasing. OPIC - FMD: Lower quality maple, mostly red maple with a mix of beech and cherry. Beech has scale. Balsam fir is thick in the understory. Soil=Wallace/Spot complex.
29	429 - Mixed Upland Conifers	Sawtimber Well	151.2	182	81-110	There is a great mix of spp in the stand. There is some hemlock and cedar regen coming in, mainly in the more open areas. Some good pockets of aspen regen and pockets of hardwood regen. Wait 10-20 years for the regeneration to get larger dbh and BA for another harvest. Possible OG area: Does not currently meet OG criteria, but within 20 years there could be areas within the stand that will. OPIC - FMD: Mixed bag of hemlock, lowland conifers and hardwoods. Stand has been treated in the past; T.sale#024-80. Varying degrees of regen and species, abundant in most places. Stand is relatively remote. Topography is variable with lowland pockets throughout. Aspen pocket on north end of stand. 99=03,10,04,07 98=20,22,30. Soil=Wallace/Spot.
30	6120 - Lowland Cedar	Sawtimber Well	37.9	121	81-110	Wet stand with low ground and lows on the north and south side. Scattered wb and yb in the stand. More hemlock and white pine on the edges. There is a pocket with very poor quality (higher water table). OPIC - FMD: Stand has some merchantable timber, but area is low/wet and the quality is very poor. May be better to leave this stand for other purposes other than timber production. Soil=Lupton/Tawas 99=04,03,10
31	6120 - Lowland Cedar	Poletimber Well	20.1	182	81-110	Maybe treat some of the edges when surrounding stands are harvested. OPIC - FMD: Soil=Dawson/Loxely/Greenwood.
32	612 - Lowland Coniferous Forest	Poletimber Poor	1.3	91	1-50	Suppressed spruce, tamarack and some white pine on higher knobs.
34	42390 - Mixed Non- Pine Upland Conifers	Sawtimber Well	149.9	182	81-110	ERA is the SE part of the stand. There is possible treatment in the north when stand 29 is treated again. Possible OG area: Does not currently meet OG criteria, but within 20 years there could be areas within the stand that will. MNFI has identified patches of type 1 or 2 old growth within this ERA. At this time, mapping of the old growth patches has not occurred. OPIC - FMD: Stand is variable, but mostly a hemlock type. Rolling topography with lowland conifer pockets scattered throughout. Stand and surrounding area is relatively remote due to the lack of roads. May prove difficult to treat due to lowland pockets and the challenges of putting a logging road into the stand. Hemlock, pine and hardwoods on the upland types and cedar dominates the lowlands. Some of the hemlock is large diametered and old. Multiple aged stand in most species. Maybe evaluate again for treatment in 10 years. ERA adjacent to this stand. Soil=Wallace/Spot Complex. 99=07,04,03.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	4.0	182	81-110	Harvest with Stand 67 in then SH compartment 103. OPIC - FMD: Stand is somewhat variable but mostly a pine type. Rolling topography, some sand ridges are steep. Low areas as well around the Barfield Lakes Complex. Low areas are mostly C/Q types and uplands are mostly WP/RP with some hemlock. 98=39,20,22 99=11,03 Area is designated as an ERA. Soil=Rousseau/Dawson Complex.
49	6122 - Black Spruce	Poletimber Well	8.9	69	51-80	White tops are poor, trace amount of 10"dbh cedar. OPIC - FMD: Stand is a mix of pine, lowland conifers and some mixed hardwoods. Stand is surrounded by upland types. Stand is adjacent to and ERA. 99=10,03,11 Soil=Rousseau/Dawson Complex.
50	4134 - Aspen, Spruce/Fir	Sawtimber Medium	4.8	69	81-110	All species are ready for harvest with some mortality. White pine has poor tops. OPIC - FMD: Stand falls on the back of a knob, steep hillsides in places. Mixed bag of tree species, mostly of upland types; red maple, birch, aspen, hemlock, spruce and white pine. Shingleton Unit recently cut to the county line along the west side of this stand.
51	42200 - Natural White Pine	Sawtimber Well	8.3	182	81-110	Harvest what areas are possible due to slopes with stands 50 and 49. Harvest to promote more of the pioneer spp in the stand. East part of the stand may have been treated with #24-80-01 sale, snow was too deep to see stumps but that area has smaller hardwoods and is more open. OPIC - FMD: Stand occurs on the back of a sand ridge, steep south facing slope. P.birch is dying out. West end of stand is more of an aspen/birch/pine mix.
52	42210 - Natural Red Pine	Sawtimber Well	6.4	109	111-140	Regeneration is only found on the edges where there is light getting to the ground. OPIC - FMD: Red pine ridge within the Barfield Lakes Area. Red pine has good quality. This stand is located adjacent to an ERA designated area. Area is quite scenic. This stand could be held and treated with adjacent stands in the future or held onto for influence zone, scenic or ERA reasons.
54	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	4.0	109	81-110	Barfield Lakes ERA. Trace amount of Oak. White birch is dying out. Red pine needs to be opened up for regeneration, but red and white pine are growing out of harvest size class. OPIC - FMD: Red pine ridge within the Barfield Lakes Area. Red pine has good quality. This stand is located in an ERA designated area. Area is quite scenic. This stand could be held and treated with adjacent stands in the future or held onto for influence zone, scenic or ERA reasons.
56	42210 - Natural Red Pine	Sawtimber Well	15.6	182	81-110	Harvest with adj stands OPIC - FMD: Stand has been treated in the past - no records though. Stumps present as well as old logging evidence. Regen has come in after the treatment. Stand falls on a sand ridge that is steep in places. 99=11,10,03 Soil=Wallace.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	42350 - Upland Hemlock	Sawtimber Well	15.2	182	51-80	<p>Barfield Lakes ERA. Treat again in 20 years when regen in more merchantable. Harvesting was good for this stand.</p> <p>OPIC - FMD: Stand was treated in the past, ~25 years ago (no records?) Now a mix of hemlock and white pine. Some red pine, red maple, spruce and balsa present. Rolling ridges with low/wet types nearby. Hemlock, paper birch, red maple, aspen, white pine, balsam fir regen throughout. Soil=Wallace/spot complex. 98=22,20,39,31,25</p>
58	42350 - Upland Hemlock	Sawtimber Well	11.3	182	81-110	<p>Part of Barfield Lakes ERA -</p> <p>OPIC - FMD: Stand was treated in the past, ~25 years ago? No records. Mix of hemlock and white pine. Rolling ridges with low/wet types scattered throughout. Regen of hemlock, white pine, aspen, birch, b.fir throughout. Soil=Wallace/Spot Complex.</p>
59	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	3.5	182	51-80	OPIC - FMD: Suppressed lowland conifers, mostly spruce.
61	6122 - Black Spruce	Poletimber Well	9.7	99	51-80	<p>East side of stand lower ground and dbh is smaller. Stand is healthy.</p> <p>OPIC - FMD: Stand falls on a subtle narrow ridge that falls between an open treed bog to the north and a large cedar swamp to the south. There is a steep ridge on the far NW end of stand that would need to be delt with if treated. Stand may be ready silviculturally, but may want to hold for other reasons.</p>
63	6120 - Lowland Cedar	Sawtimber Well	174.3	117	111-140	<p>Would be nice to treat part of the north and west areas of the stand. Long winter road plowing for small acreage. Didn't get to SE part of stand but strong possibility of very wet ground and/or drains due to proximity to the NB of Two Heart tributaries.</p> <p>OPIC - FMD: Decent stand of cedar, logged in the distant past. Evidence of an old grade runnig through center of stand. Soil=Lupton/Tawas complex.</p>
64	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	49.5	121	51-80	<p>PVT line is along the south west half of stand where they harvested. Tops are poor condition. Some areas have higher BA than others.</p> <p>OPIC - FMD: Large WP scattered in overstory. Mix of many species - lowland conifers and lowland hardwoods. Low/wet areas mixed throughout stand. Pocket of spruce on the south end of stand. Soil=Spot/Finch Complex. 98=30,27,20,39 99=03,10,04</p>
65	42200 - Natural White Pine	Sawtimber Well	14.0	121	81-110	<p>Starting to get mortality.</p> <p>OPIC - FMD: Large scattered white pine in the overstory. Mixed bag of species in the stand. If treatd remove aspen, red maple, spruce, balsam, p.birch ans some white pine. Stand on PVT land (TFG) the west was harvested this winter (07-08) Blue line is in. Soil = Paquin/Finch Complex.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	6.1	97	81-110	Trees are over mature, dead, dying or with weak crowns. Low end of the BA range. OPIC - FMD: If treated leave some hemlock, cedar and yellow birch. Beech is dying from scale. 99=01,04 98=25,39,20,22 Soil=Finch.
67	42200 - Natural White Pine	Sawtimber Well	12.9	121	81-110	PVT to the west harvested. OPIC - FMD: Lowland conifers with scattered islands of WP, most WP is tall and decent quality. 99=03,04 Soil=Spot/Finch Complex. Will need more survey corners if treatment is to occur.
68	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	76.8	182	1-50	OPIC - FMD: Stand surrounding N. Branch of the Two Hearted River. Wet stand, tag alder throughout. Groves of cedar mixed with other lowland conifers and lowland hardwoods. 98=30,20,22,27,39 99=41,03,04,10 Soil= Lupton/Tawas Complex.
69	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	37.7	182	51-80	Wet stand with drains from NB Two Heart creeping into the stand. Would be difficult to harvest and protect BMP's. OPIC - FMD: 98=20,22,27,39,30 99=41,10,04,03 Soil=Lupton/Tawas Complex.
70	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	33.8	121	81-110	Too much snow to know if there are drains in the stand. With ash present I am assuming very wet. OPIC - FMD: Mixed lowland conifer stand, some pockets heavy to cedar. 99=10,04,03,41 Soil=Spot/Finch Complex.
71	4193 - Birch, Aspen	Poletimber Well	5.4	79	51-80	Move treatment forward from 10 years ago. OPIC - FMD: Mix of birch, aspen, lowland poplar and lowland conifers/hardwoods. TFG is preparing their land for timber harvest to the south. It may be a good time to harvest this for the effort involved with such a small acreage of timber. Area is somewhat remote. 98=22,25,39 Soil=Spot/Finch Complex.
72	4193 - Birch, Aspen	Poletimber Well	5.8	79	81-110	Move TMT forward. OPIC - FMD: Mix of birch, aspen, lowland poplar and lowland conifers/hardwoods. TFG is preparing their land for timber harvest to the south. It may be a good time to harvest this for the effort involved with such a small acreage of timber. Area is somewhat remote. 98=22,25,39 Soil=Spot/Finch Complex.
73	6122 - Black Spruce	Poletimber Poor	4.0	91	1-50	Treed bog surrounded by Barfield Lakes ERA
74	6122 - Black Spruce	Poletimber Poor	15.9	91	1-50	Treed bog surrounded by Barfield Lakes ERA



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
78	4112 - Maple, Beech, Cherry Association	Poletimber Well	35.7	99	1-50	<p>Wait 10-20 years for regen to get larger dbh. Leave overstory to help reduce beech regeneration. Residual BA is still low due to the majority of the residual beech dying after the sale.</p> <p>OPIC - FMD: Stand was treated in 1985. Abundant sapling sized regen. Stand was cut hard before in places, especially in the south end. Beech is dying from scale. Harvest some of overstory to release regen. May be a good leave tree mark stand to designate what is to remain. TFG just harvested stand to the west. ***Per Compartment Review, Wildlife Division will plant 12-15 foot tall red oak saplings in the stand following harvest wherever openings will allow for survival (Wildlife funding/FTP).</p> <p>Stand harvested as sale #017-10-01, "Barfield Lakes Road Hardwoods". Complete 09/30/11. Regeneration check needed in 2015.</p>
80	6122 - Black Spruce	Poletimber Poor	2.9	79	1-50	OPIC - FMD: Soil=Dawson/Greenwood/Loxely Complex.
81	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	136.2	182	81-110	<p>Part of Barfield Lakes ERA. MNFI has identified patches of type 1 or 2 old growth within this ERA. At this time, mapping of the old growth patches has not occurred.</p> <p>Spp present: 39, 30, 25, 22, 03, 10, 04, and 07 in order of BA</p> <p>OPIC - FMD: Stand is variable. Rolling topography with lowland conifer pockets scattered throughout. Stand and surrounding area is relatively remote due to the lack of roads. May prove difficult to treat due to lowland pockets and the challenges of putting a logging road into the stand. Hemlock, pine and hardwoods on the upland types and cedar dominates the lowlands. Some hemlock is large diametered and old. Multiple aged stand in most species. Maybe evaluate for treatment again in 10 years. Soil-Wallace/Spot Complex. 99(pulp)=07,04,03,04,10 99(saw)=04,10,03.</p>
82	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	16.6	182	111-140	<p>Part of the Barfield Lakes ERA. Mesic Hardwood Forest MNFI has identified patches of type 1 or 2 old growth within this ERA. At this time, mapping of the old growth patches has not occurred.</p> <p>OPIC - FMD: Island of hardwoods surrounded by lowland conifers. Stand is difficult to access due to the lack of roads in the area and the lowland pockets that would need to be crossed. Evaluate the stand in 10 years for treatment. Beech has scale. 99=04,07 Soil=Bodi.</p>
83	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.6	182	111-140	<p>Part of Barfield Lakes ERA. Mesic Northern Hardwoods. MNFI has identified patches of type 1 or 2 old growth within this ERA. At this time, mapping of the old growth patches has not occurred.</p> <p>OPIC - FMD: Island of hardwoods surrounded by lowland conifers. Stand is difficult to access due to the lack of roads in the area and the lowland pockets that would need to be crossed. Evaluate the stand in 10 years for treatment. Beech has scale. 99=04,07 Soil=Bodi.</p>
84	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	24.3	182	81-110	OPIC - FMD: Rolling topography, hardwoods and hemlock on the uplands, the gullies in the stand are wet with lowland hardwoods/conifers. Cedar in stand is old with some being fairly large diametered, low quality though. Remote area. Evaluate in 10 years for treatment. 99=03,07,04 Soil=Wallace/Spot and Lupton/Tawas Complex.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
85	411 - Northern Hardwood	Sawtimber Well	8.9	99	111-140	<p>ERA. MNFI has identified patches of type 1 or 2 old growth within this ERA. At this time, mapping of the old growth patches has not occurred.</p> <p>OPIC - FMD: Large diametered timber in here. It has been a while since the last treatment (over 50 years?). Timber is big and tall. Not the greatest quality, but decent. Most timber has some sort of defect. Beech has scale. There is a road leading to the stand is in bad shape and would need work to improve if used. Soil=Bodi.</p>
86	411 - Northern Hardwood	Sawtimber Well	13.4	182	111-140	<p>OPIC - FMD: Large diametered timber in here. It has been a while since the last treatment (~50years?). Timber is big and tall. Not the greatest quality, but decent. Most timber has some sort of defect. Beech has scale. There is a road leading to the stand but it is in bad shape and would need to be improved if used. Soil=Bodi.</p>
87	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	27.3	182	81-110	<p>OPIC - FMD: Lowland conifers/hardwoods. Low ground with low quality timber, difficult access. Soil=Lupton/Tawas.</p>
88	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	23.7	182	81-110	<p>OPIC - FMD: Lowland conifers/hardwoods. Low ground with low quality timber, difficult access. Portion fo stand falls in two hearted river management zone. Soil= Lupton/Tawas</p>
89	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	5.6	182	51-80	<p>OPIC - FMD: Wet stand, sapling sized trees present. Soil=Lupton/Tawas. Portion of stand falls in Two Hearted River Management zone.</p>
90	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	7.8	182	81-110	<p>OPIC - FMD: Stand is mostly upland with low quality old/large timber - hemlock, red maple, beech, y.birch, spruce and white pine. Lower areas are predominantly conifers, mostly old cedar. Beech is dying from scale. There is timber in here to treat, but in a very remote area with difficult access. Evaluate again in 10 years. A portion of this stand falls in the Two Hearted River Management Zone.</p>
91	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	3.8	182	81-110	<p>OPIC - FMD: Stand is mostly upland with low quality old/large timber - hemlock, red maple, beech, y.birch, spruce and white pine. Lower areas are predominantly conifers, mostly old cedar. Beech is dying from scale. There is timber in here to treat, but in a very remote area with difficult access. Evaluate again in 10 years.</p>
92	6120 - Lowland Cedar	Poletimber Medium	11.0	182	1-50	<p>OPIC - FMD: Low and wet. Low quality stand. Timber is dying out, tag alder and lowland hardwood in understory- black ash, r.maple, p.birch, y.birch. Timber is small diametered and short. Blowdowns throughout, understory is thick with tag asder and brush in most places. Nasty stand. 98=20,22,27 Soil =Lupton/Tawas.</p>
93	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	23.2	182	111-140	<p>OPIC - FMD: Stand is a mix of hemlock, white pine, cedar and spruce. P.birch, y.birch, r.maple present - some large diametered but not that great of quality. Stand is variable. Some low areas in stand but firm ground for the most part. Some large diametered white pine, hemlock and cedar. Stand is fairly remote and has not been treated for some time. Evaluate again in 10 years. 99=03,10,04. Soil=Wallace/Spot Complex.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
94	6120 - Lowland Cedar	Poletimber Well	6.4	117	81-110	OPIC - FMD: Old cedar stand. Some large diametered cedar in here 16"+dbh, but the quality is not that great. Several blow down that have fallen down over time, very tough to walk through stand. Black ash, cedar and balsam fir saplings are thick in most places in the understory. This stand may be better suited for other purposes than timber production. Soil=Lupton/Tawas.
95	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	2.6	182	111-140	Part of Barfield Lakes ERA OPIC - FMD: Stand is a mix of hemlock, white pine, cedar and spruce. P.birch, y.birch, r.maple present - some large diametered but not that great of quality. Stand is variable. Some low areas in stand but firm ground for the most part. Some large diametered white pine, hemlock and cedar. Stand is fairly remote and has not been treated for some time. Evaluate again in 10 years. 99=03,10,04. Soil=Wallace/Spot Complex.
96	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	4.2	182	111-140	Part of Barfield Lakes ERA. OPIC - FMD: Stand is a mix of hemlock, white pine, cedar and spruce. P.birch, y.birch, r.maple present - some large diametered but not that great of quality. Stand is variable. Some low areas in stand but firm ground for the most part. Some large diametered white pine, hemlock and cedar. Stand is fairly remote and has not been treated for some time. Evaluate again in 10 years. 99=03,10,04. Soil=Wallace/Spot Complex.
97	4110 - Sugar Maple Association	Sawtimber Medium	128.3	117	81-110	Part of Barfield Lakes ERA. MNFI has identified patches of type 1 or 2 old growth within this ERA. At this time, mapping of the old growth patches has not occurred. OPIC - FMD: Old cedar stand. Some large diametered cedar in here 16"+dbh, but the quality is not that great. Several blow down that have fallen down over time, very tough to walk through stand. Black ash, cedar and balsam fir saplings are thick in most places in the understory. This stand may be better suited for other purposes than timber production. Soil=Lupton/Tawas.
98	42350 - Upland Hemlock	Sawtimber Well	17.0	182	111-140	Part of Barfields Lakes ERA. OPIC - FMD: Stand is a mix of hemlock, white pine, cedar and spruce. P.birch, y.birch, r.maple present - some large diametered but not that great of quality. Stand is variable. Some low areas in stand but firm ground for the most part. Some large diametered white pine, hemlock and cedar. Stand is fairly remote and has not been treated for some time. Evaluate again in 10 years. 99=03,10,04. Soil=Wallace/Spot Complex.
99	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	10.9	182	111-140	Part of Barfield Lakes ERA. OPIC - FMD: Stand is a mix of hemlock, white pine, cedar and spruce. P.birch, y.birch, r.maple present - some large diametered but not that great of quality. Stand is variable. Some low areas in stand but firm ground for the most part. Some large diametered white pine, hemlock and cedar. Stand is fairly remote and has not been treated for some time. Evaluate again in 10 years. 99=03,10,04. Soil=Wallace/Spot Complex.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
101	4113 - R.Maple, Conifer	Sawtimber Well	5.4	99	111-140	<p>Less BA than 10 years ago because of BBD and trees dying. Keep treatment.</p> <p>OPIC - FMD: Stand is mostly old timber and large diametered. Not great quality in the hardwoods, decent in the conifers (white pine, hemlock and spruce). Beech is dying from scale. Regen throughout. Possibly treat stand if TFG treats the adjacent properties. Limited access with crossing their land and involving road work/construction. 99=10,04,07 98=39,20,22.</p>
102	4113 - R.Maple, Conifer	Sawtimber Well	6.3	99	81-110	<p>Beech is less BA than 10 years ago. Maple and other hardwood spp are over mature.</p> <p>OPIC - FMD: Stand is mostly old timber and large diametered. Not great quality in the hardwoods, decent in the conifers (white pine, hemlock and spruce). Beech is dying from scale. Regen throughout. Possibly treat stand if TFG treats the adjacent properties. Limited access with crossing their land and involving road work/construction. 99=10,04,07 98=39,20,22.</p>
103	4113 - R.Maple, Conifer	Sawtimber Well	2.8	99	81-110	<p>Carry treatment forward. Less BA than 10 years ago with BBD and over mature hardwoods.</p> <p>OPIC - FMD: Stand has decent maple but not great quality. May be possible to treat with adjacent TFG land while they treat their land, looks like they are preparing it for harvest. Would have to cross their land for access. Soil=Deerton.</p>
104	411 - Northern Hardwood	Sawtimber Medium	38.1	83	51-80	<p>OPIC - FMD: Stand was treated in 1982; T.Sale#23-81A. Decent quality maple with a fair amount of sugar maple. Beech in stand has scale. W.pine, spruce, cedar, hemlock on the edges of stand. Some y.birch present. Plenty of advanced regen. Soil=Frohling/Wallace complex.</p> <p>(2015) - Stand was treated with Tsale#420151001. TCR 10/29/15</p>
105	411 - Northern Hardwood	Sawtimber Well	20.2	83	81-110	<p>OPIC - FMD: Stand was treated in 1982; T.Sale#23-81A. Decent quality maple with a fair amount of sugar maple. Beech in stand has scale. W.pine, spruce, cedar, hemlock on the edges of stand. Some y.birch present. Plenty of advanced regen. Soil=Frohling/Wallace complex.</p> <p>(2015) - Stand was treated with Tsale#420151001 TCR 10/29/2015</p>
108	6120 - Lowland Cedar	Poletimber Well	34.3	117	111-140	<p>OPIC - FMD: Old cedar stand. Some large diametered cedar in here 16"+dbh, but the quality is not that great. Several blow down that have fallen down over time, very tough to walk through stand. Black ash, cedar and balsam fir saplings are thick in most places in the understory. This stand may be better suited for other purposes than timber production. Soil=Lupton/Tawas.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
109	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	143.1	99	1-50	<p>OPIC - FMD: Stand consists of a mix of hardwood that is mostly poor quality. Many trees are overmature and defective. There is a conifer component to the stand with large hemlock, white pine, white spruce (mostly large diametered) and balsam scattered throughout. Thick hardwood reproduction throughout, sapling sized. Beech has scale and is dying out. 98=39,21,30. ***Per Compartment Review, Wildlife Division will plant 12-15 foot tall red oak saplings in the stand following harvest wherever openings will allow for survival (Wildlife funding/FTP).</p> <p>***Stand harvested via shelterwood as sale #42-016-10-01, Reserve Tree Hardwoods. Completed 09/13/13. Regeneration check needed per work instructions. Planting (WLD) yet to be completed as of 11/12/13.</p>
110	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	80.7	99	1-50	<p>OPIC - FMD: Stand was treated in 1991;T.sale#006-91. Mixed hardwood stand, quality is poor for the most part. Thick hardwood sapling reproduction in many places. Scattered hemlock, white pine, white spruce and balsam throughout. Stand is even aged or two aged, overstory overtops a thick understory. Remove overstory and release regen. Leave all conifers. May be better to do leave tree marking if stand is treated. 98=30,39,21,20. ***Per Compartment Review, Wildlife Division will plant 12-15 foot tall red oak saplings in the stand following harvest wherever openings will allow for survival (Wildlife funding/FTP).</p> <p>***Stand harvested via seed tree as sale #42-016-10-01, Reserve Tree Hardwoods. Completed 09/13/13. Regeneration check needed per work instructions. Planting (WLD) yet to be completed as of 11/12/13.</p>
111	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	63.4	182	1-50	<p>Part of the Barfield Lakes ERA. MNFI has identified patches of type 1 or 2 old growth within this ERA. At this time, mapping of the old growth patches has not occurred.</p> <p>OPIC - FMD: Low and wet. Low quality stand. Timber is dying out, tag alder and lowland hardwood in understory- black ash, r.maple, p.birch, y.birch. Timber is small diametered and short. Blowdowns throughout, understory is thick with tag asder and brush in most places. Nasty stand. 98=20,22,27 Soil =Lupton/Tawas.</p>
112	4113 - R.Maple, Conifer	Sawtimber Well	7.6	99	111-140	<p>Carry treatment forward.</p> <p>OPIC - FMD: Stand is mostly old timber and large diameter. Not great quality in the hardwoods, decent in the conifers (white pine, hemlock and spruce). Beech is dying from scale. Regen throughout. Possibly treat stand if TFG treats the adjacent properties. Limited access with crossing their land and involving road work/construction. 99=10,04,07 98=39,20,22.</p>
113	42350 - Upland Hemlock	Sawtimber Well	8.8	182	111-140	<p>It would be good to treat part of the stand to get conifer regeneration coming up. When treating stand 112 dip into the stand in appropriate areas.</p> <p>OPIC - FMD: Stand is a mix of hemlock, white pine, cedar and spruce. P.birch, y.birch, r.maple present - some large diametered but not that great of quality. Stand is variable. Some low areas in stand but firm ground for the most part. Some large diametered white pine, hemlock and cedar. Stand is fairly remote and has not been treated for some time. Evaluate again in 10 years. 99=03,10,04. Soil=Wallace/Spot Complex.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
114	42350 - Upland Hemlock	Sawtimber Well	5.4	182	111-140	Harvest some of the stand when treating stand 116 to promote conifer regeneration. OPIC - FMD: Stand is a mix of hemlock, white pine, cedar and spruce. P.birch, y.birch, r.maple present - some large diametered but not that great of quality. Stand is variable. Some low areas in stand but firm ground for the most part. Some large diametered white pine, hemlock and cedar. Stand is fairly remote and has not been treated for some time. Evaluate again in 10 years. 99=03,10,04. Soil=Wallace/Spot Complex.
115	6120 - Lowland Cedar	Poletimber Medium	117.1	100	1-50	OPIC - FMD: Low and wet. Low quality stand. Timber is dying out, tag alder and lowland hardwood in understory- black ash, r.maple, p.birch, y.birch. Timber is small diametered and short. Blowdowns throughout, understory is thick with tag asder and brush in most places. Nasty stand. Portion of stand falls in Two Hearted River Management Zone. 98=20,22,27 Soil=Lupton/Tawas.
116	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.2	99	81-110	Harvest with stand 112. OPIC - FMD: Hardwood stand that has some large diametered hardwood trees. Trees are of poor quality, overmature and defective. Beech has scale and is dying. Possibly treat stand if TFG treats the adjacent timber in their land. Access would be through them. 99=04,07,49.
118	6120 - Lowland Cedar	Poletimber Well	6.8	117	81-110	OPIC - FMD: Stand falls along the edge of the Two Hearted River. Low/wet ground surrounds the stand making it nearly inaccessible. Island of larger white pine on the north end of stand. Soil=Lupton/Tawas.
119	6120 - Lowland Cedar	Poletimber Poor	49.3	182	1-50	OPIC - FMD: Lowland conifer, mostly cedar. Scattered larger white pine present. Spruce and tamarack present as well. Tag alder in the understory as well as lowland hardwoods, nightmare of a stand to walk through. Stand falls in Two Hearted River Management Zone. 98=27,22,30,27 Soil=Lupton/Tawas.
121	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.9	182	81-110	OPIC - FMD: Hardwood stand that has some large diametered hardwood trees. Trees are of low quality, overmature and defective. Stand falls in the 100-400' zone of the Two Hearted River Management plan. Very little can be done to treat this stand according to the plan, can only cut large timber while maintaining a minimum fo 95 BA. 99=04,07,49.
122	411 - Northern Hardwood	Poletimber Poor	1.6	40	1-50	Trees slowly filling in from surrounding hardwood stand. OPIC - FMD: Open area that was once a possible homestead or lumbercamp? Area is known as the Stellwagon Camp. There is an old building on the north end of this opening on PVT land. Some scattered cherry/spruce trees and hardwood saps.
123	42350 - Upland Hemlock	Sawtimber Well	32.5	182	81-110	Good regeneration from harvest. Cut again when understory is ready. OPIC - FMD: Mixed bag of hemlock, lowland conifers and hardwoods. Stand has been treated in the past; T.sale#024-80. Varying degrees of regen and species, abundant in most places. Stand is relatively remote. Topography is variable with lowland pockets throughout. Aspen pocket on north end of stand. 99=03,10,04,07 98=20,22,30. Soil=Wallace/Spot.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
124	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	8.6	99	51-80	<p>Wait 10-20 years for regen to get larger dbh. Leave overstory to help reduce beech regeneration. Residual BA is still low due to the majority of the residual beech dying after the sale. Wait 10-20 years for regen to get larger dbh. Leave overstory to help reduce beech regeneration. Residual BA is still low due to the majority of the residual beech dying after the sale.</p> <p>Stand harvested as sale #017-10-01, "Barfield Lakes Road Hardwoods". Complete 09/30/11. Regeneration check needed in 2015.</p> <p>OPIC - FMD: Poor quality hardwood, most trees are overmature and defective. Beech has scale and is nearly dead. Thick hardwood sapling understory. White pine in stand is tall and has quality. Stand may be too small to treat on its own. TFG just harvested their timber on the north of this stand, blue line is in.</p>
126	612 - Lowland Coniferous Forest	Poletimber Medium	26.1	88	1-50	<p>OPIC - FMD: Stand condition 8 = HCVA - Two Hearted River Natural River Zone. Corridor along the North Branch of the Two Hearted River. Low quality stunted black spruce and cedar over tag alder.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
3	122 - Road/Parking Lot	1.2	No	OPIC - FMD: County Road 416 and it's R.O.W. The county has recently been doing maintenance to the edges of their R.O.W. by removing trees ~15' from the existing road edge. There is a possibility that it may occur here as well.
19	500 - Water	1.1	No	OPIC - FMD: Water hole that may seasonally dry up. Water in it now. Looks like some past beaver activity.
20	500 - Water	0.5	No	OPIC - FMD: Water hole that may seasonally dry up. Water in it now.
28	622 - Lowland Shrub	1.3	No	Beaver activity in the area this year. OPIC - FMD: Low area that is frequently wet. Water here now. Willow/tag alder present.
33	500 - Water	0.3	No	OPIC - FMD: Waterhole surrounded by lowland types.
35	6239 - Mixed Emergent Wetland	14.1	No	OPIC - FMD: Marsh type that surrounds Barfield Lakes Complex. The marsh has grasses, small shrubs, leatherleaf and some scattered suppressed trees. Area has been designated as an ERA.
36	500 - Water	3.4	No	OPIC - FMD: Stand makes up a portion of the Barfield Lakes Complex. Area is designated as an ERA.
37	500 - Water	2.9	No	OPIC - FMD: Stand makes up a portion of the Barfield Lakes Complex. Area is designated as an ERA.
38	500 - Water	1.1	No	OPIC - FMD: Stand makes up a portion of the Barfield Lakes Complex. Area is designated as an ERA.
39	500 - Water	2.1	No	OPIC - FMD: Stand makes up a portion of the Barfield Lakes Complex. Area is designated as an ERA.
40	6224 - Treed Bog	11.6	No	OPIC - FMD: Suppressed spruce, tamarack, cedar and white pine. Area is designated as an ERA.
41	6239 - Mixed Emergent Wetland	8.0	No	OPIC - FMD: Mostly a marsh type surrounding water - Barfield Lakes area. This area is designated as an ERA.
42	6239 - Mixed Emergent Wetland	11.8	No	OPIC - FMD: Marsh type that can be seasonally wet. Stand falls in an area that is designated as an ERA.
44	500 - Water	2.1	No	OPIC - FMD: Barfield Lakes Complex. Area is designated as an ERA.
45	500 - Water	2.4	No	OPIC - FMD: Barfield Lakes Complex. Area is designated as an ERA.



Stand	Cover Type	Acres	Managed Site	General Comments:
46	500 - Water	17.1	No	OPIC - FMD: Barfield Lakes Complex. Area is designated as an ERA.
47	500 - Water	4.6	No	OPIC - FMD: Barfield Lakes Complex. Area is designated as an ERA.
48	500 - Water	15.9	No	OPIC - FMD: Barfield Lakes Complex. Area is designated as an ERA.
53	6239 - Mixed Emergent Wetland	27.7	No	OPIC - FMD: Marsh area around Barfield Lakes. Leatherleaf and grass ground cover.
55	6224 - Treed Bog	127.7	No	OPIC - FMD: Scattered suppressed trees, mostly spruce and tamarack. Area is designated as an ERA.
60	6224 - Treed Bog	23.4	No	Part of Barfield Lakes ERA. OPIC - FMD: Scattered suppressed trees, mostly spruce and tamarack. Leatherleaf and shrubs on the ground.
75	629 - Mixed non-forested wetland	9.8	No	Mortality still occurring in the stand due to beaver activity and the high water table. OPIC - FMD: Stand was a "Q" type that has been flooded out by beavers taking advantage of past logging activity and the old roads that were used to get to the stand. Some standing timber that is now dead. Soil=Spot.
76	6229 - Mixed lowland shrub	9.8	No	Barfield Lakes ERA on the SE edge of stand. OPIC - FMD: Stand was a "Q" type that has been flooded out by beavers taking advantage of past logging activity and the old roads that were used to get to the stand. Some standing timber that is now dead. Soil=Spot.
77	622 - Lowland Shrub	14.6	No	OPIC - FMD: Stand was a "Q" type that has been flooded out by beavers taking advantage of past logging activity and the old roads that were used to get to the stand. Some standing timber that is now dead. Soil=Spot.
79	6239 - Mixed Emergent Wetland	3.6	No	OPIC - FMD: Past beaver activity, some surrounding timber has been flooded out. Some standing timber that is now dead. Soil=Lupton/Tawas.
100	6239 - Mixed Emergent Wetland	3.0	No	OPIC - FMD: Stand is frequently wet, stand area mostly serves as a drainage. Past beaver activity. Soil=Spot.
106	6229 - Mixed lowland shrub	1.9	No	OPIC - FMD: Stand has been flooded out in the past and the trees are now dead. Some water in here now being held back by an old logging road that leads into stand 105. Soil=Luton/Tawas.
107	6229 - Mixed lowland shrub	19.0	No	OPIC - FMD: Stand seasonally holds water. It has been dry for some time now. There is an old cut through this stand that I walked to get to stand 104, it is dry now with firm ground. Stand is mostly willow brush with some scattered trees. Soil=Lupton/Tawas.
117	6239 - Mixed Emergent Wetland	12.7	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
120	500 - Water	2.0	No	OPIC - FMD: Water hole, flowage dumps into the Two Hearted River.
125	500 - Water	1.1	No	OPIC - FMD: Barfield Lakes Complex. Area is designated as an ERA. This stand seasonally holds water.