



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42006

Entry Year 2020

Acreage: 1,358

County Luce

Management Area: Deer Park

Revision Date: 2018-08-17

Stand Examiner: Kristen Matson

Legal Description:

T49N R12W sections 1, 2, 12-15

T49N R11W section 18

Identified Planning Goals:

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

Soil and topography:

Soils are dominated by sand types: Deer Park Sand in the north end of the compartment moving towards Rubicon Sand in the middle of the compartment then transitioning into Rubicon Sand (Organic Surface) and Wallace Sands in the south end of the compartment. Topography is mostly rolling uplands east and south of Blind Sucker Flooding. There is a steep escarpment flanking the south edge of Blind Sucker Flooding.

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

The compartment is entirely state ownership. It is completely surrounded by State ownership with the only exception being Commercial Forest land bordering the southwest edge of the compartment. Predominate land use in the area mostly involves timber production and recreation (hunting, camping, fishing, ORV and snowmobile riding, dog sledding, hiking, berry picking, wildlife/nature viewing).

Unique Natural Features:

The Blind Sucker River, the Blind Sucker Flooding and the steep escarpment that wraps around the south end of the Blind Sucker Flooding.

See MNFI information for listings of the potential rare plants and animals that may be found here.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Blind Sucker Flooding Wildlife management plan.

Deer Park Management Area.

Watershed and Fisheries Considerations:

Fisheries Values: Excellent

The Blind Sucker Flooding supports pike and perch, some of each being Master Angler sized. Downstream from the flooding, the Blind Sucker River is a designated trout stream. However, water from the flooding seems too warm to support young steelhead or salmon during summer months, and recent Fisheries Division attempts to initiate spawning runs never worked. Even so, pink salmon enter the river in the fall to spawn. The treatment in stand 15 is a selective cut and within the State Forest Campground. This treatment should not have any impacts to the fisheries of Blind Sucker Flooding.

Wildlife Habitat Considerations:

Compartment 6 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 Blind Sucker flooding forms the western boundary of the compartment and provides excellent breeding, feeding and resting habitat for several species of waterfowl, marsh and shorebirds and habitat for aquatic furbearers such as river otter, beaver, mink, and muskrat. Bald eagles and osprey have active and historic nests along the flooding in several places. The remainder of the compartment is quite diverse and contains unique components of hemlock, yellow birch and super canopy white pine.

Harvested stands will protect a portion of super canopy trees as potential nesting sites, refuge trees and structural

diversity. Oak will be retained for future mast sources where they occur. Hemlock will be encouraged when possible by retaining it in harvests and thinning around it. Wildlife species expected to use the compartment are numerous and are reflective of the overall variety of forest types present. They include white-tailed deer, moose, black bear, bobcat, coyote, mink, otter, muskrat and beaver, fisher and marten, waterfowl, eagles and osprey.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are not located in the area, but there does appear to be some sand & gravel potential within the compartment. There is no known metallic mineral potential in this area, and there is no potential for economical production oil and gas in the UP. The state does not own the mineral rights beneath some of the compartment. Private mineral rights owners must be allowed reasonable access to the land should they choose to explore and/or develop the minerals.

Vehicle Access:

The compartment can be accessed primarily via County Roads 410, 433, and 378. These roads seasonally receive routine maintenance. The north end of the compartment can be accessed primarily by the access road leading to the Blind Sucker #2 campground. It generally receives seasonal maintenance. There are a few other two track roads bordering and within the compartment that receive little or no maintenance and are generally passable by a 4 wheel drive vehicle.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Recreational facilities include: ORV trail and Blind Sucker #2 state forest campground.

Fire Protection:

The entire compartment falls under the Blind Sucker Zone Dispatch fire response plan. The southeast and north ends of the compartment have good potential for large fire growth to the east because of the continuous pine fuel types in neighboring compartments. Heavy equipment access is fair except between the escarpment and Blind Sucker Flooding.

Additional Compartment Information:

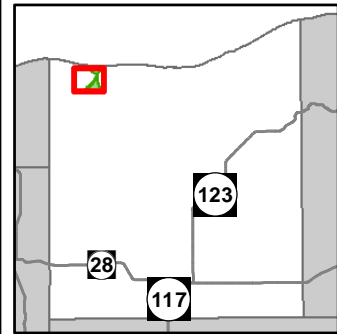
The following reports from the Inventory are attached:

- 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:

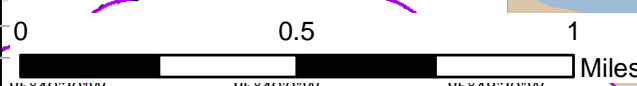
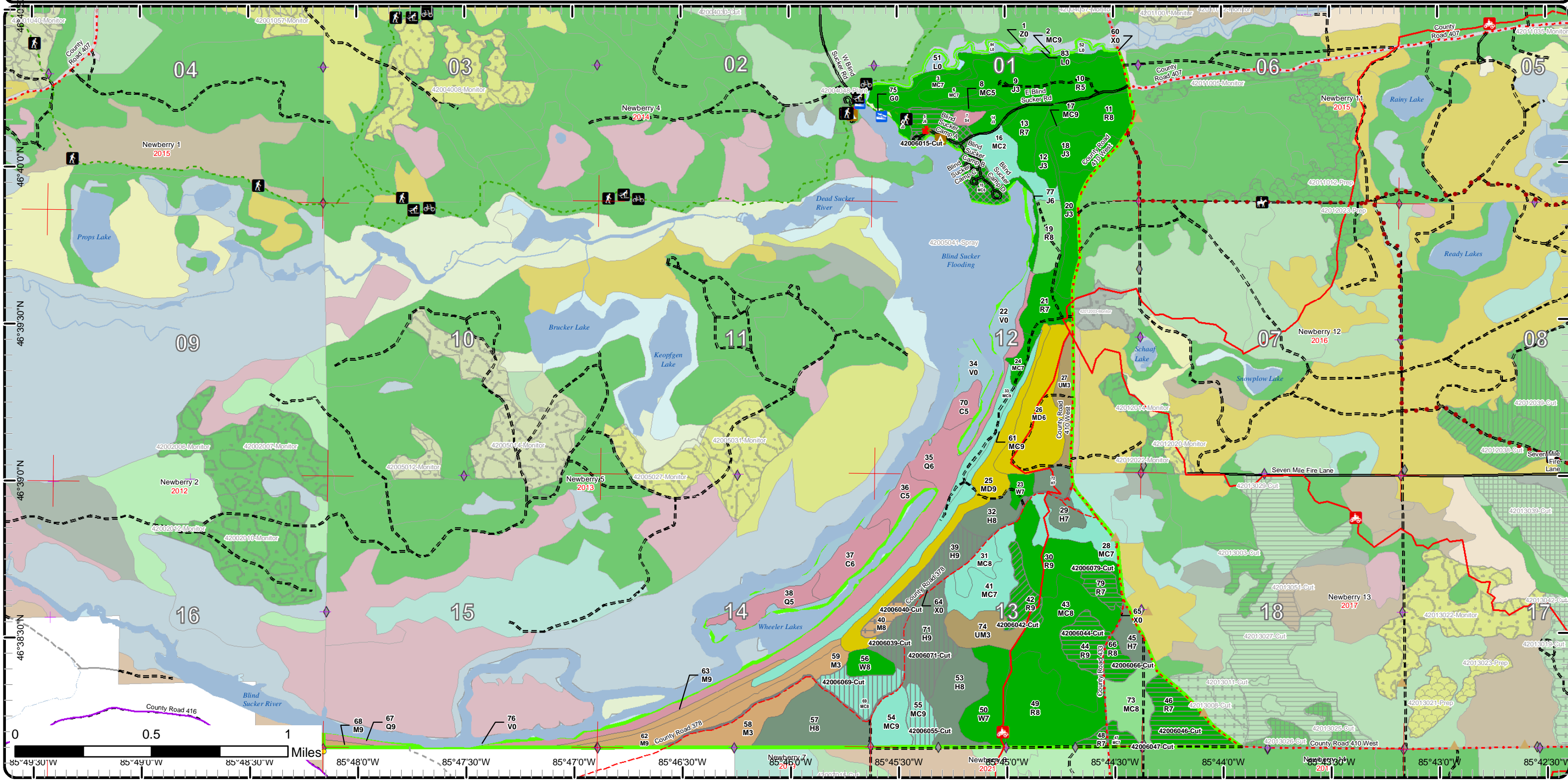
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



Compartment: 6
 T49N, R12W, Sec. 1, 2, 12-15
 T49N, R11W, Sec. 18
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2020
 Acres: 1,358 GIS Calculated
 Examiner: Kristen Matson
 Map Revised: 4/23/2019
 Map Phase: Post-Review

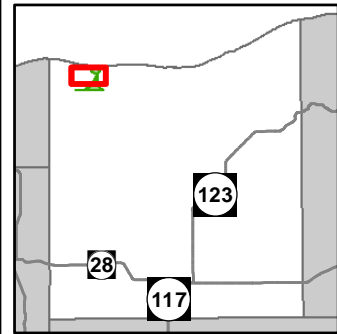
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- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
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- 🚤 Boating Access Site
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- 🏠 Structures
- ✳ Trailhead
- Island in Lake or River
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- Lakes and Rivers All
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- Lakes



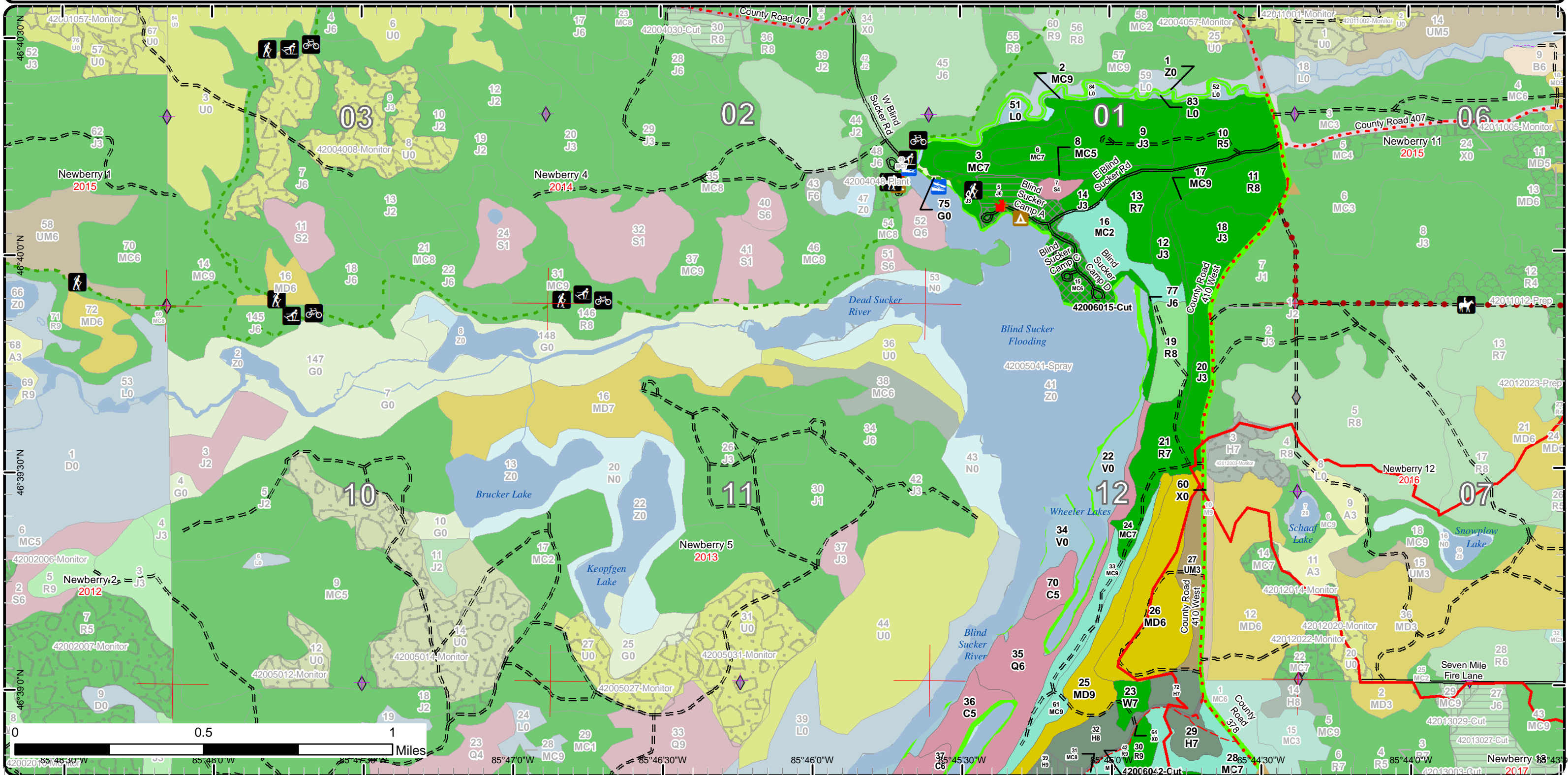
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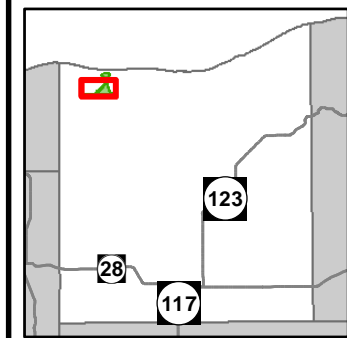


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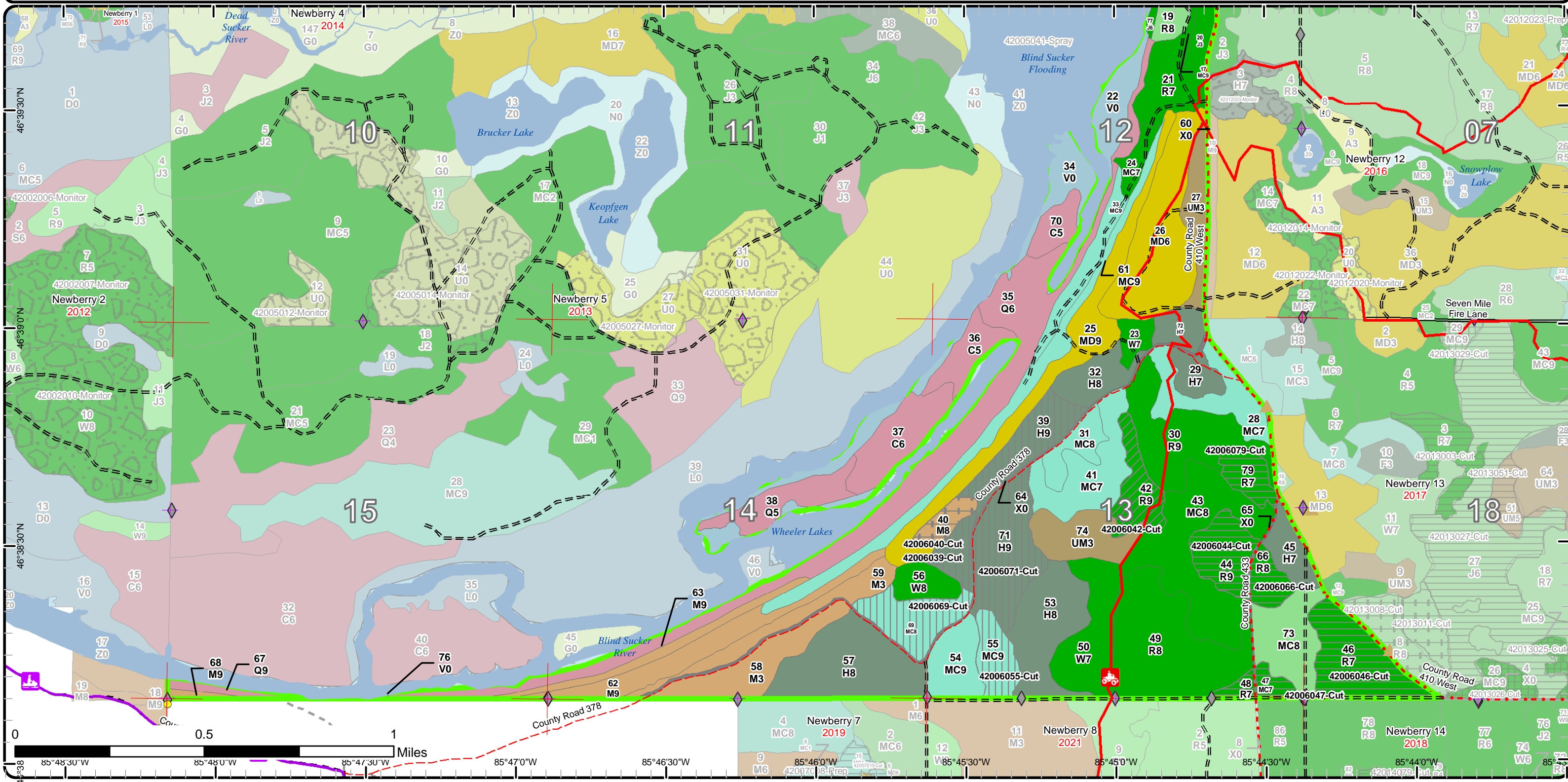


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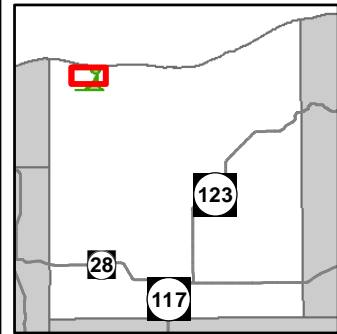


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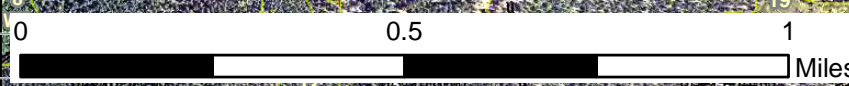
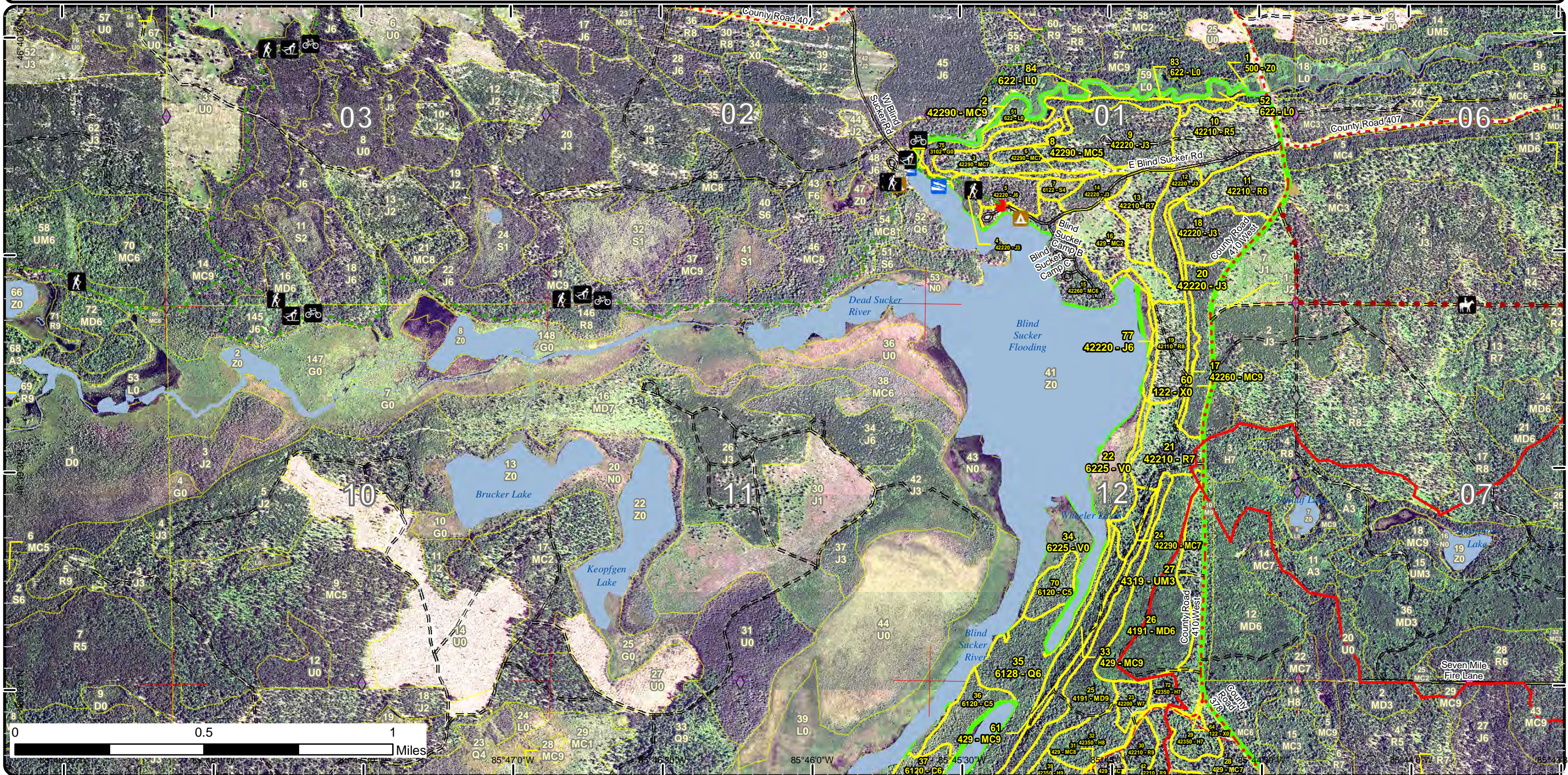


Stand Boundary Map

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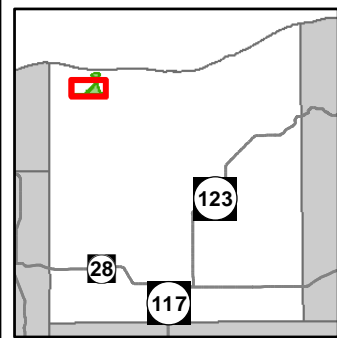
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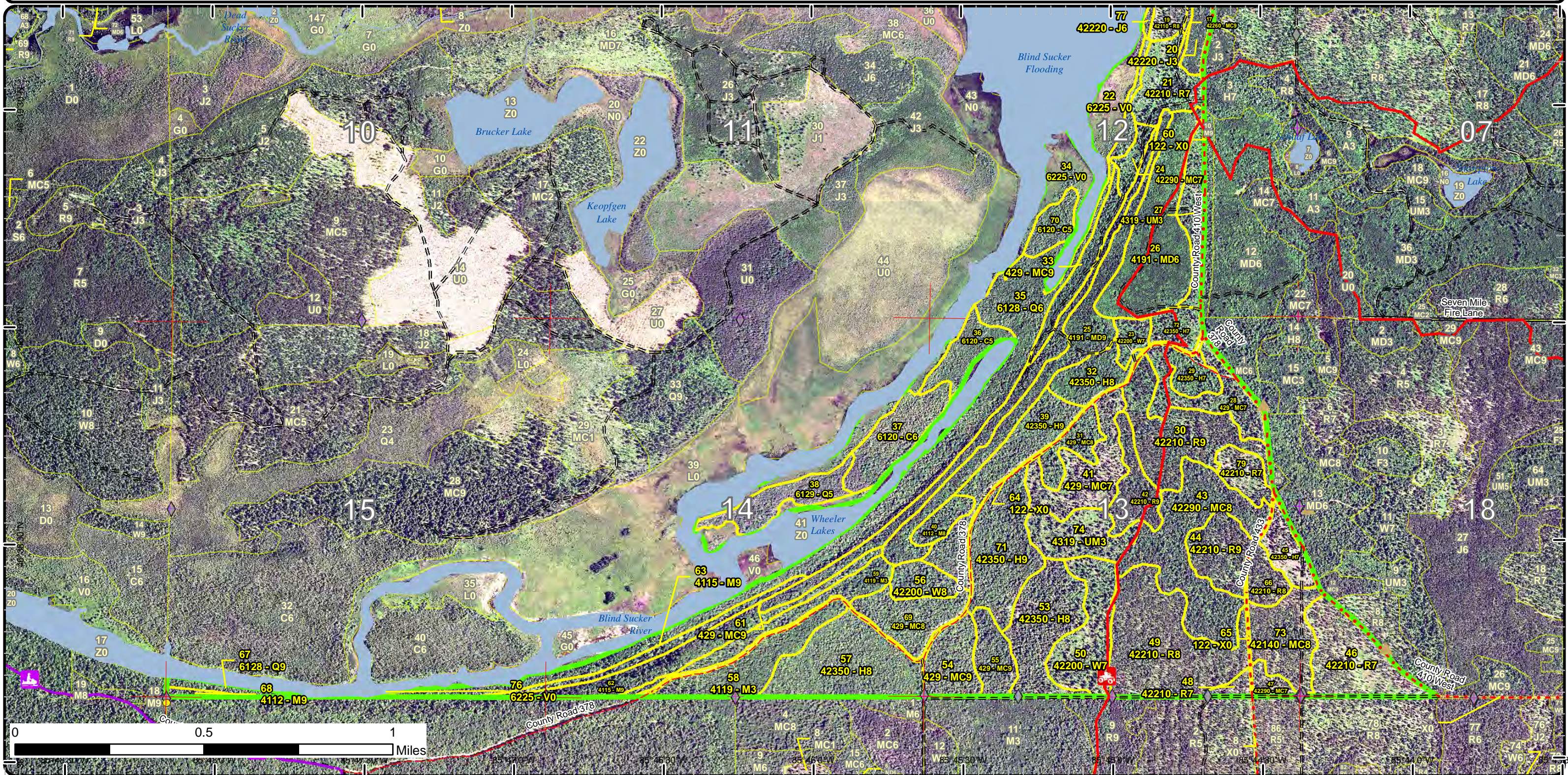
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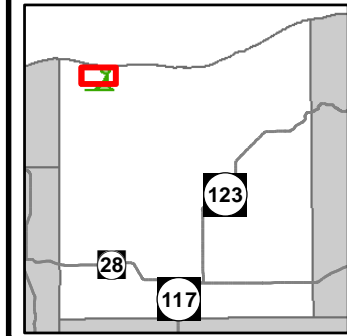


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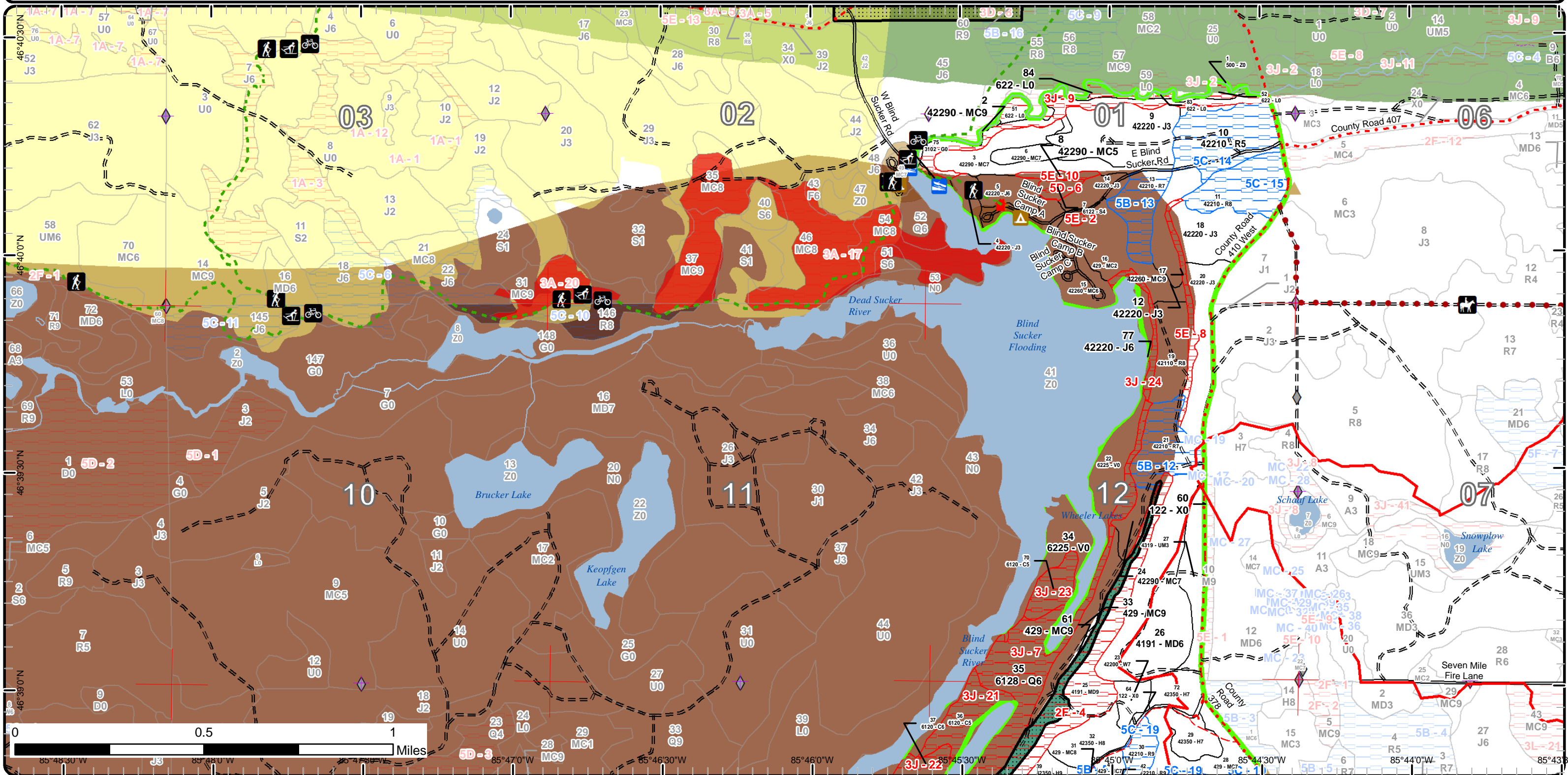


Special Conservation Areas & Site Conditions Map

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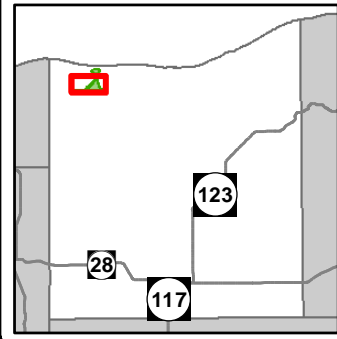


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Critical Dunes
- Critical Coastal Habitat (Piping Plover)
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas
- Spring or Seep
- State Forest Campground
- Habitat Corridor

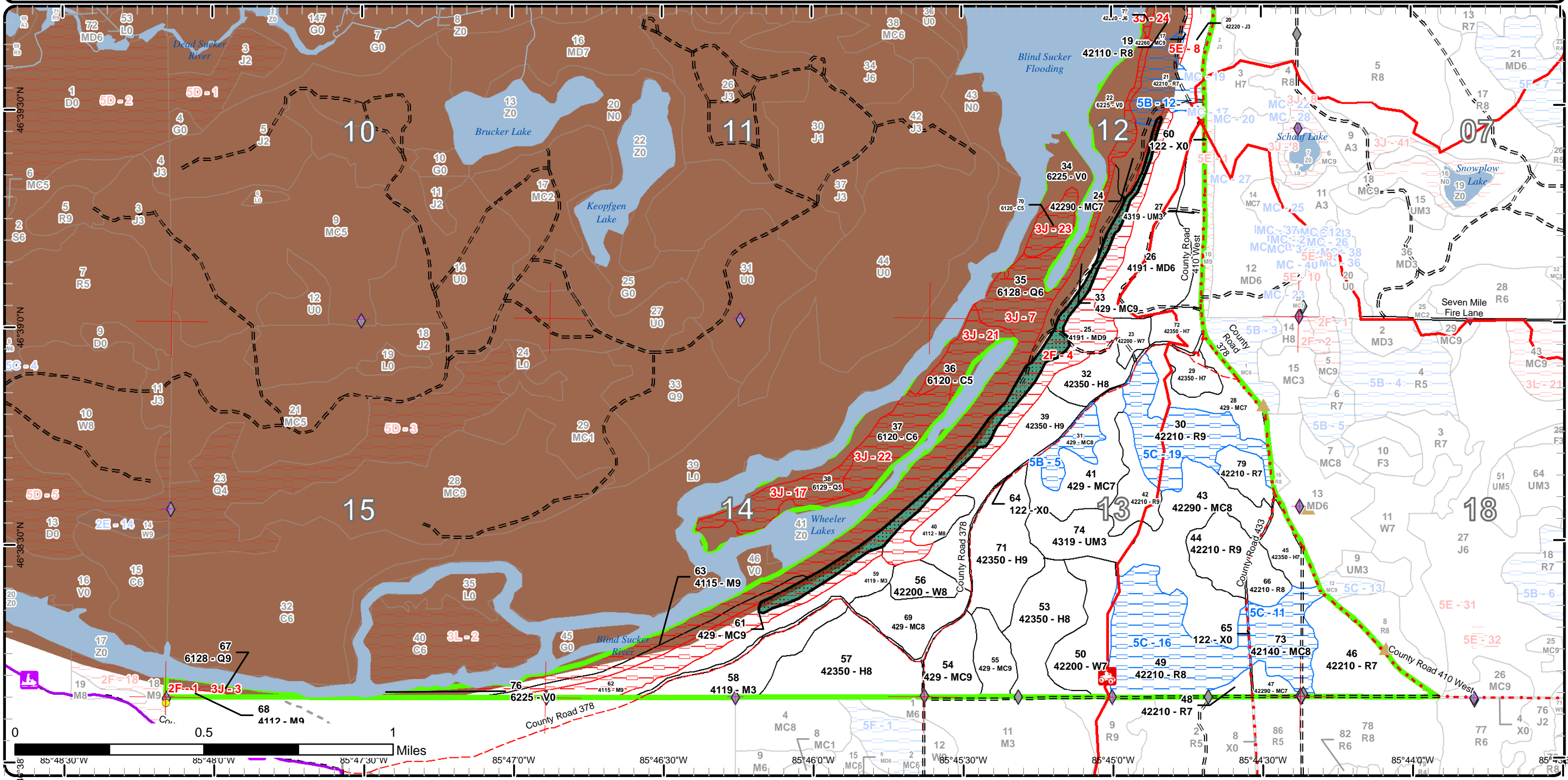


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- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas
- Habitat Corridor



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 6

Year of Entry 2020

Kristen Matson : 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
Bog	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Cedar	0	0	0	0	0	0	0	0	0	22	0	22	0	0	0	0	0	0	44
Hemlock	0	0	0	0	0	0	0	0	0	8	91	13	0	0	0	0	0	63	175
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	0	64	21	0	0	0	4	0	9	0	0	0	0	0	0	0	98
Lowland Conifers	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	92	109
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	0	0	47	0	0	0	39	0	0	0	0	0	0	0	0	86
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	73	42	0	0	0	0	0	0	17	132
Northern Hardwood	0	0	0	0	42	0	0	0	0	0	11	7	0	0	0	0	0	28	88
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	23
Red Pine	0	0	0	0	0	0	0	0	41	223	0	0	0	0	0	0	0	0	264
Upland Conifers	0	21	0	0	0	0	0	0	0	0	94	10	0	0	0	0	0	41	166
Upland Mixed Forest	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	0	0	32	9	0	0	0	0	0	0	0	41
Total	98	54	0	64	63	47	0	0	45	398	295	55	0	0	0	0	0	241	1360



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 6

Total Compartment Acres: 1,358

Commercial Harvest - 220
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Hemlock	0	0	0	0	63	0	0	0	0	63
Jack Pine	9	0	0	0	0	0	0	0	0	9
Natural Mixed Pines	5	22	0	0	0	0	0	0	0	27
Northern Hardwood	0	0	0	0	0	0	7	0	0	7
Red Pine	68	0	0	0	0	15	0	0	0	83
Upland Conifers	0	0	0	0	32	0	0	0	0	32
Total	82	22	0	0	94	15	7	0	0	220

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	220	0	0	0	0	0	0	0	0	220
Next Step	0	90	82	0	73	73	271	0	0	589
Total	220	90	82	0	73	73	271	0	0	808



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
5	42006005-Cut	8.8	42220 - Natural Jack Pine	Poletimber Well	90	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all trees except: red pine, white pine, paper birch and oak.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable Jack Pine with a variety of other species such as white pine, red pine, oak, paper birch, and red maple.

Regen:

Other Adjacent to campground. Pathway in stand.

Comment:

Proposed Start Date: 10/1 /2019

15	42006015-Cut	22.4	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	96	81-110	Harvest	Group Selection	429 - Mixed Upland Conifers	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest all jack pine and hazard trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any species currently on site.

Regen:

Other It is ok to drop a few trees into the lake for fisheries. Make unmerchantable trees available to FD for fish structure in the lake.

Comment:

Proposed Start Date: 10/1 /2019

39	42006039-Cut	29.1	42350 - Upland Hemlock	Sawtimber Well	101	81-110	Harvest	Shelterwood with Retention	4312 - Hemlock, Mixed Deciduous	Two-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove all species except: all hemlock unless needed for operability, and white pine greater than 20"dbh. Leave oak if found.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable hemlock, white pine and a mix of conifers and hardwood currently found on site

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

40	42006040-Cut	6.7	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	100	51-80	Harvest	Overstory Removal	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove all trees except hemlock and white pine. Leave oak if found.

Specs:

Next Step

Treatments:

Acceptable Hardwoods with a mix of conifers currently found on site.

Regen:

Other The mature residual hemlock and white pine will provide for bear escape trees and for fisher and marten.

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
42	42006042-Cut	14.5	42210 - Natural Red Pine	Sawtimber Well	80	111- 140	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Thin to an average of 120 BA.Specs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/1 /2019

44	42006044-Cut	17.3	42210 - Natural Red Pine	Sawtimber Well	80	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Cut all trees. No retention due to small size and to facilitate regeneration efforts.Specs:Next Step Pesticide, (Inactive)Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);Treatments: Burn, SlashAcceptable Red pine with a mix of naturally occurring species.Regen:OtherComment:Proposed Start Date: 10/1 /2019

46	42006046-Cut	29.7	42210 - Natural Red Pine	Sawtimber Poor	86	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Cut all trees. Retention will be on edge near stand 73 to facilitate regeneration efforts.Specs:Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, (Inactive)Aerial;Treatments: Burn, SlashAcceptable Red pine with other species naturally occurring, such as WP, JP, oak, PB, and RM.Regen:OtherComment:Proposed Start Date: 10/1 /2019

47	42006047-Cut	4.8	42290 - Natural Mixed Pine	Sawtimber Poor	80	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Cut all trees. No retention due to small size and to facilitate regeneration efforts.Specs:Next Step SitePrep, Trenching; Planting, Initial Plant; Pesticide, (Inactive)Skidder/Mechanical; Monitoring, Artificial Regen(1yr); Monitoring, ArtificialTreatments: Regen(3yr); Burn, SlashAcceptable Red pine with a mix of naturally occurring species such as white pine, red maple, oak and balsam fir.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
48	42006048-Cut	3.2	42210 - Natural Red Pine	Sawtimber Poor	80	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all trees. No retention due to small size and to facilitate regeneration efforts.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Pesticide, (Inactive)Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);
Treatments: Burn, Slash

Acceptable Red pine with a mix of naturally occurring species such as white pine, red maple, oak and balsam fir.

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

55	42006055-Cut	12.4	429 - Mixed Upland Conifers	Sawtimber Well	101	111- 140	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove all species except: all hemlock unless needed for operability, and white pine greater than 20"dbh. Leave oak if found.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Hemlock, white pine and a mix of conifers and hardwoods currently found on site.

Regen:Other

The mature residual hemlock and white pine will provide for bear escape trees. The stand serves as a good wildlife travel corridor.

Comment:

Proposed Start Date: 10/1 /2019

66	42006066-Cut	8.3	42210 - Natural Red Pine	Sawtimber Medium	80	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees. No retention due to small size and to facilitate regeneration efforts.

Specs:

Next Step SitePrep, Trenching; Pesticide, (Inactive)Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);
Treatments: Burn, Slash

Acceptable Red pine with a mix of other naturally occurring species such as white pine, oak, red maple and b fir.

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

69	42006069-Cut	19.3	429 - Mixed Upland Conifers	Sawtimber Medium	92	51-80	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove all species except: all hemlock unless needed for access, and white pine greater than 20"dbh. Leave oak if found.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Hemlock, white pine and a mix of other conifers and hardwoods currently found on site.

Regen:Other

Retention should be in pockets with as much diversity as possible to benefit wildlife. The mature residual hemlock and white pine will provide for bear escape trees and for marten cover.

Proposed Start Date: 10/1 /2019



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
71 42006071-Cut	33.6	42350 - Upland Hemlock	Sawtimber Well	100	81-110	Harvest	Shelterwood with Retention	4312 - Hemlock, Mixed Deciduous	Two-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Remove all species except: all hemlock unless needed for access, and white pine greater than 20"dbh. Leave oak if found.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Hemlock, white pine and a mix of conifers and hardwoods currently found on site.

Regen:

Other The mature residual hemlock and white pine will provide for bear escape trees and for marten cover.

Comment:

Proposed Start Date: 10/1 /2019

79 42006079-Cut	9.5	42210 - Natural Red Pine	Sawtimber Poor	88	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Cut all trees. No retention to facilitate regeneration efforts.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Pesticide, (Inactive)Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);

Treatments: Burn, Slash

Acceptable red pine with some naturally occurring species

Regen:

Other Southern portion with existing regeneration may not need planting.

Comment:

Proposed Start Date: 10/1 /2019

Total Treatment Acreage Proposed: 219.6

Report 4 – Site Conditions

Newberry Mgt. Unit
Kristen Matson : Examiner

Compartment: 6
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions								
		With Condition				5B	5C	5F	MC	2F	3J	5D	5E	
65	65	0		0	Bog						0			
43	0	0		43	Cedar						43			
176	176	0		0	Hemlock		0	0						
1	1	0		0	Herbaceous Openland						0			
97	93	0		4	Jack Pine	0	0				4	0	0	
110	0	0		110	Lowland Conifers					0	110			
7	0	0		7	Lowland Shrub						7			
3	0	0		3	Lowland Spruce/Fir							3	0	
86	47	0		39	Mixed Upland Deciduous	0				39				
132	108	0		24	Natural Mixed Pines	0	0			0	16	0	8	
87	48	0		39	Northern Hardwood					28	11			
23	0	23		0	Planted Mixed Pines		23							
264	97	167		0	Red Pine	32	134			0	0		0	
166	127	10		29	Upland Conifers	10				28	0		0	
33	33	0		0	Upland Mixed Forest									
17	17	0		0	Urban	0	0		0					0
5	0	0		5	Water						5			
42	42	0		0	White Pine		0			0				
1,358	854	200		304	Total Forested Acres	42	157	0	0	96	196	3	9	
	63%	15%		22%	Relative Percent									

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep hillside.							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Kristen Matson : Examiner

Compartment: 6
Year of Entry: 2020

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand contains drainages into the Blind Sucker flooding.							
4	Unavailable	2F: Too steep	94	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Very steep. Nests are sometimes found here.							
5	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5D: Unproductive Forest Land	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	98	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand contains drainages and seeps.							
8	Unavailable	5E: Long-Term Retention	6	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
 Kristen Matson : Examiner

Compartment: 6
 Year of Entry: 2020

10	Unavailable	5E: Long-Term Retention	2	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Kristen Matson : Examiner

Compartment: 6
Year of Entry: 2020

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
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)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Kristen Matson : Examiner

Compartment: 6
Year of Entry: 2020

24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	5E: Long-Term Retention	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
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	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.
HCVA	Critical Dunes	Critical dune areas are established via the public legislative process, and governed by Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). The current distribution of designated critical dunes is established by the DEQ 1989 Atlas of Critical Dune Areas.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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:
2	42290 - Natural Mixed Pine	Sawtimber Well	17.1	91	81-110	2018: Long term retention, river corridor. 2008: Stand fringes Blind Sucker river. Stand is mixed pine and scrubby w. birch with balsam/w. pine understory. Birch is dying out. Stand is situated along a north facing hillside that is steep in most places.
3	42290 - Natural Mixed Pine	Sawtimber Poor	19.7	92	1-50	2018: Scattered residual of varying BA (0-60). Regeneration is a mix of species. Compared to stand 6, this stand is more "open". 2008: Stand is a mix of jack pine and mature red and white pine. Paper birch, r. maple, balsam and oak mixed in - variable density depending on where you are in the stand. Jack pine is getting old. Cut jack pine, paper birch and any spruce/balsam that may be present. Thin a few red & white pine also for maneuverability. Maybe harvest in late fall when campground use is low. Stand harvested as sale #008-10-01, "Campground Pine". Complete 07/22/11. Scarification yet to be done as of 11/02/11. FTP #42-762; Scarification completed 9/22/2011. Regen 2015: Jack pine 19 TPA, white pine 99 TPA, red pine 79 TPA, red maple 833 TPA. Surveyed with stands 10, 13, 16, 19, 11, and 6.
4	42220 - Natural Jack Pine	Sapling Well	4.5	31	Immature	There was a fire in here in 1988. Dense Jack pine regen, with a few other species. Pathway in stand.
5	42220 - Natural Jack Pine	Poletimber Well	8.8	90	81-110	2017: Over-mature Jack Pine with some other species. Trail in stand. Sparse regen. Blueberry & brackenfern. 2008: Stand falls near the edge of Blind Sucker #2 campground. Jack pine is old. Trees are beginning to die out one at time and have been removed as hazard trees over the years. Could treat stand now but it would certainly change the visual appearance and integrity of the campground. This stand was prescribed for harvest during the last inventory cycle and it was delayed for treatment at the last compartment review due to the proximity to the campground and the recent harvesting within the vicinity, it was deemed best to leave this stand for aesthetic purposes.
6	42290 - Natural Mixed Pine	Sawtimber Poor	5.0	86	1-50	2018: Residual of red and white pine with some oak. Also a mix of sapling sized trees left during harvest. Regeneration is a mix of conifer and hardwood. Stand harvested as sale #008-10-01, "Campground Pine". Complete 07/22/11. . FTP #42-762; Scarification completed 9/22/2011. Regen 2015: Jack pine 19 TPA, white pine 99 TPA, red pine 79 TPA, red maple 833 TPA. Surveyed with stands 10, 13, 16, 19, 3, and 11.
7	6122 - Black Spruce	Poletimber Poor	3.2	109	1-50	2017: low ground compared to surrounding stands. Treed bog. 2008: There are a few scattered white pine and spruce in overstory, mostly suppressed. Some spruce seedlings present also.
8	42290 - Natural Mixed Pine	Poletimber Medium	2.3	86	51-80	2018: retention area. Sparse canopy. 2008: Stand falls on a south facing slope for the most part, steep in places.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
9	42220 - Natural Jack Pine	Sapling Well	28.0	25	Immature	Scattered red pine and white pine left as residual after cutting in 1994. Oak throughout as well. Scarified in 1995. Rolling terrain. JP regen predominately with some RP/WP/Spruce/Red Maple. Stand regenerated nicely. Brackenfern and blueberry ground cover.
10	42210 - Natural Red Pine	Poletimber Medium	26.4	79	1-50	2018: JP was removed last entry. Regen is more sparse where residual BA is higher. 2008: Rolling terrain throughout stand. Stand harvested as sale #008-10-01, "Campground Pine". Complete 07/22/11. FTP #42-762; Scarification completed 9/22/2011. Regen 2015: Jack pine 19 TPA, white pine 99 TPA, red maple 833 TPA. Surveyed with stands 11, 13, 16, 19, 3, and 6.
11	42210 - Natural Red Pine	Sawtimber Medium	19.5	86	51-80	2018: Variable density RP with some WP, PB and RM. BA generally 30-60. Mix of scattered regen after harvest. Stand harvested as sale #008-10-01, "Campground Pine". Complete 07/22/11. Regen 2015: Jack pine 19 TPA, white pine 99 TPA, red pine 79 TPA, red maple 833 TPA. Surveyed with stands 10, 13, 16, 19, 3, and 6.
12	42220 - Natural Jack Pine	Sapling Well	11.1	25	Immature	2018: Residual BA <10 in most places. 2008: Scattered RP/WP/Oak in overstory. Thick JP regen with some WP/RM/Aspen mixed throughout.
13	42210 - Natural Red Pine	Sawtimber Poor	13.9	86	1-50	2018: Two-aged. Regen is a mix and density is patchy, though generally fully stocked. Some scotch pine regen. Slightly rolling terrain. BA of residual is variable - average 20. 2011: Stand harvested as sale #008-10-01, "Campground Pine". Complete 07/22/11. Regen 2015: Jack pine 19 TPA, white pine 99 TPA, red pine 79 TPA, red maple 833 TPA. Surveyed with stands 10, 11, 16, 19, 3, and 6. 9 TPA of scotch pine. 2008: Stand planted in spring of 1977. Stand is an even mix of scotch/jack pine. Both seem to be growing well. If the intent is to eliminate the scotch pine, stand could be scheduled for treatment. It would have to be chipped though, some merchantability but most wood is less than 5"DBH.
14	42220 - Natural Jack Pine	Sapling Well	6.7	25	Immature	2017:Residual trees less than 10BA. Dense sapling sized JP. 2008: Scattered RP/WP/Oak in overstory. Thick JP regen with some WP/RM/Aspen mixed throughout.
15	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	22.4	96	81-110	2008: Campground stand. Stand is mixed with oak, aspen, birch; red, white, and jack pine. Jack pine is old and overmature. Trees are dying out one at a time and have been removed as hazard trees through the years. There are other trees growing in understory such as white pine, oak, b.fir and red maple. Understory is varied due to people use. Could treat jack pine with a commercial timber harvest but it would certainly change the integrity of campground. Treat as fit. 12-17-08 Per the compartment review, it was suggested to possibly treat stand by removing the remaining jack pine with a commercial timber harvesting operation when stand 5 is treated, evaluate at that time. 98=30,31,22



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	429 - Mixed Upland Conifers	Sapling Medium	20.7	8	Immature	<p>2018: Mix of regen with scattered overstory RP, WP, oak, red maple and paper birch of varying densities.</p> <p>2015: Stand harvested as sale #008-10-01, "Campground Pine". Complete 07/22/11. Regen 2015: Jack pine 19 TPA, white pine 99 TPA, red pine 79 TPA, red maple 833 TPA. Surveyed with stands 10, 13, 11, 19, 3, and 6.</p> <p>2008: If treated, some red pine may have to be marked for maneuverability, leave all oak, birch and some red pine/white pine behind. There is a small lowland pocket of spruce/tag alder on the north end of stand, avoid this area if stand is treated.</p>
17	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.9	80	81-110	<p>2018: Due to steep slope, this stand was left as retention when all adjacent stands were harvested.</p> <p>2008: Stand falls on an escarpment that is steep. It would present difficulties if treated. Good stand to leave untreated. Oak, r.maple present.</p>
18	42220 - Natural Jack Pine	Sapling Well	18.0	24	1-50	<p>2018: A few JP just reaching merchantable size, majority is 2-4" dbh.</p> <p>2008: Stand was cut in 1994. Scarified in 1995. Some scattered red pine and white pine in overstory left as residual from harvest. Jack pine came in very thick and is now 5-15' tall, 1-3"DBH. R.Maple and aspen mixed in with JP.</p>
19	42110 - Planted Red Pine	Sawtimber Medium	14.4	78	51-80	<p>2018: Variable BA 40-80 of red pine with white pine. Mix of regen is generally sparse.</p> <p>2008: Stand planted in 1941. Old rail road grade runs N-S through stand. A steep ridge borders east side of stand. Birch, r.maple, aspen and oak present.</p> <p>Stand harvested as sale #008-10-01, "Campground Pine". Complete 07/22/11. Regen 2015: Jack pine 19 TPA, white pine 99 TPA, red pine 79 TPA, red maple 833 TPA. Surveyed with stands 10, 11, 13, 16, 3, and 6.</p>
20	42220 - Natural Jack Pine	Sapling Well	16.2	38	1-50	<p>2008: Area was cut in 1981. Regen coming along nicely with jack pine and aspen, it is thick in most places. Some b.fir, r. maple, w.pine and p.birch as well. Overstory of RP/WP/P.Birch and oak in places left as residual from cutting. J. pine is now 15-30' tall 2-4"DBH.</p>
21	42210 - Natural Red Pine	Sawtimber Poor	18.3	86	1-50	<p>2018: BA ranges from 10-80 mainly RP, with area of higher BA in the center of the stand. Average is <40 through majority of stand. Regen is patchy and a mix of species. 2008: Blind Sucker Mix, sale #02-01. Sale completed on 12/05/01. FTP # 42-538 scarified on 7/2002. Regen is mostly r. maple stump sprouts and b.fir with some aspen. Some JP and WP regen, but not much. Stand may need cultivation work to promote jack pine regen if that is the desired MO. Original MO was JP.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	42200 - Natural White Pine	Sawtimber Poor	5.7	80	1-50	<p>2018: Basically 2-aged. Fully stocked mixed regeneration. (2015) - Stand was treated with Tsale#420101001, Booty Birch Revisit. TCR # 8/20/2015.</p> <p>2008: Stand is a mixed bag of species. Portions of stand were planted with RP/WP/JP. Some RP is sawlog sized. Treat stand and let it come back to R.maple, P.birch, hemlock/wpine, that is basically what naturally grows here and seems to want to grow here now. Cut most species, leave WP and hemlock. Soil=Rubicon with an organic layer.</p>
24	42290 - Natural Mixed Pine	Sawtimber Poor	5.7	86	1-50	<p>2018: Variable BA of residual trees 10-70 with average around 30.</p> <p>2008: Blind Sucker Mix, sale #02-01. Sale completed on 12/05/01. Stand is now an overstory of WP/RP/hemlock overtopping thick r.maple,b.fir regen, some WP/aspen regen also.</p>
25	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	39.4	90	111-140	<p>2018: Long narrow stand on steep hillside. Species composition and density varies throughout.</p> <p>2008: Stand mostly falls on the side of a steep escapement. Birch stand has a mix of r. maple, hemlock, beech and some spruce/balsam. Some large WP as well. Reproduction density varies but is balsam fir for most part. Beech in stand is dying/dead from scale. 98(1)=39,30 98(2)=20,21,39.</p>
26	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	46.9	47	51-80	<p>2018: Majority of trees 3-7" dbh. Scattered large white pine and hemlock. ORV trail in stand.</p> <p>2008: Stand was treated in 1971. Thick regeneration of paper birch, red maple and beech. Beech has scale. Also some balsam & hemlock. Most trees are 3-6" DBH. Soil=Rubicon sand with organic layer.</p>
27	4319 - Mixed Upland Forest	Sapling Well	13.4	5	1-50	<p>2018: Fully stocked regen, mainly red maple and balsam fir.. Scattered residual mainly hemlock. (2015) Stand was treated with TSale # 420101001. TCR 8/20/2015.2008: Stand is mostly p.birch, beech, red maple and hemlock with white pine scattered throughout. Beech is dying from scale. If treated, remove all species except hemlock and white pine. Some areas in stand are heavier to beech, some to birch, some to maple. Hardwood in stand in not great quality. Birch is getting old. Remove overstory and release regen. Understory is dense in most places, heavy mix of maple regeneration with balsam. Some hemlock regen present also. 98=20,21 Soil=Rubicon Sand with organic layer.</p>
28	429 - Mixed Upland Conifers	Sawtimber Poor	19.6	93	1-50	<p>2018: Regeneration is a mix - fully stocked. (2015) - Stand was treated with TSale # 420101001 - Booty Birch Revisit. TCR 8/20/2015.</p> <p>2008: Stand is mixed bag of hemlock, white pine, birch, r.maple, beech, spruce and balsam. Hardwoods are low quality. Beech has scale. Hemlock regen throughout and regeneration varies in species across stand. Leave all hemlock and white pine. Cut any RP/JP present, some survived from a 1939 planting but not many. Soil=Rubicon sand with organic layer. 98=32,20,21.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	42350 - Upland Hemlock	Sawtimber Poor	8.3	96	1-50	2018: Dense 1-3" dbh trees. Scattered large trees, mainly hemlock. 2008: Stand was cut in 1996; t.sale#048-05. Hemlock/white pine/beech/red maple was left in overstory. Most beech is dying from scale. Regen is mostly red maple, birch sprouts, beech with b.fir, hemlock and white pine mixed in. Regen is 10-20' tall 1-2"DBH. Soil=Rubicon sand with organic layer.
30	42210 - Natural Red Pine	Sawtimber Well	35.1	88	81-110	2018: Nice RP with a fair amount of WP throughout. Regen is mostly b. fir and red maple with a mix of others. 2008: Knotched Stump Pine, sale #04-01. Sale completed on 11/07/01. FTP # 42-540 completed July, 2002. Overstory of RP left from harvest. Regen is mostly r.maple and beech stump sprouts. B.fir regen prevelant as well. Some J.pine regen, but not much. In the future maybe remove some of the red pine overstory once regen is more established.
31	429 - Mixed Upland Conifers	Sawtimber Medium	10.2	101	1-50	2018:Dense regeneration 10-20' height. Canopy species composition and density is variable. 2008: Stand was cut in 1996; Tsale#048-95. Hemlock, white pine, birch, beech in overstory. Beech has scale and is dying out. Regen is moslty red maple and beech, some p.birch; 10-20'tall, sapling sized 1-2"DBH. Balsam/hemlock regeneration also. Soil=Rubicon sand with organic layer.
32	42350 - Upland Hemlock	Sawtimber Medium	13.1	100	51-80	2018: Dense younger trees 2-4" dbh, with large hemlock overstory. Few beech in poor shape. BA is variable. 2008: Stand was shelterwooded in early 80's. Abundant red maple and beech regeneration; 10-25' tall. Hemlock, fir regeneration also present. Hemlock in the overstory, sawlog/pole sized, some old and large diametered. Beech in overstory is dying out from scale. 99=03,07,04 Soil=Rubicon sand with organic layer.
33	429 - Mixed Upland Conifers	Sawtimber Well	12.6	91	81-110	2018: Dense trees 2-5" dbh from last harvest. 2008: Stand was treated in 1983. Some of the stand falls on steep escarpment. Regeneration varies from hemlock, fir, red maple & beech; thick in most places. Beech in stand is dying/dead from scale. If stand is treated again, access would have to be from the north along the old existing road. 98=20,22,21,30,25 99=03,07,04 Soil=Croswell/Spot Complex.
35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	86.8	101	81-110	2018: Flat with drainages/seeps coming off the steep hill into this stand. Some standing water. Mix of conifers with hardwoods. 2008: Stand is adjacent to B.sucker flooding at the bottom of a steep escarpment. Stand contains a mix of cedar, hemlock, white pine, spruce/balsam. Also some yellow birch and red maple present. Very old stand. Some regeneration present in all species mentioned above. Ground in here can be seasonally saturated. 98=20,39,22 99=10,03,04 Soil=Croswell/Spot Complex.
36	6120 - Lowland Cedar	Poletimber Medium	12.7	81	1-50	2017: Data from 2008, did not visit this entry. 2008: Stand is basically surrounded by the flooding/wheeler lakes. Water table in here can seasonally change. There are areas in stand with mucky ground. Trees are short and more sparse. Soil=Croswell/Spot Complex.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	6120 - Lowland Cedar	Poletimber Well	21.8	106	81-110	<p>2018: Data from 2008. Did not visit this entry.</p> <p>2008: Area is surrounded by flooding. Some mucky ground out here. Water table varies seasonally. Difficult to access by land, easier by boat. 98=30,27,32,20 99=03,04 Soil=Croswell/Spot complex.</p>
38	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	17.3	81	51-80	<p>2018: Data from 2008. Did not visit this entry.</p> <p>2008: Stand has a mix of pole sized tamarack, spruce, balsam, cedar and a few white pine. Stand is surrounded by flooding. 99=10,03. Soil=Croswell/Spot Complex.</p>
39	42350 - Upland Hemlock	Sawtimber Well	29.1	101	81-110	<p>2018: Few beech left in poor condition. Species density and composition is variable. Poor quality paper birch and red maple.</p> <p>2008: The large overstory of beech is dying/dead from the beech bark disease. Several dead trees standing. Stand is mostly hemlock/beech/birch. Hemlock is multiple aged and regeneration is abundant. Some large diametered hemlock in here. Evaluate stand in 10 years to see what impact the beech loss has on stand. Hemlock regeneration may take over in the canopy gaps created by the dying beech. 98=20,22,30. Soil=Rubicon sand with organic layer.</p>
40	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	6.7	100	51-80	<p>2018: Dense hardwood regeneration. Few beech are alive and are in poor shape.</p> <p>2008: Stand has scattered red maple with a mix of sugar, yellow birch, p. birch, beech and hemlock. Not great quality, but decent. Beech in stand has scale. White pine/hemlock throughout. Thin stand to encourage regeneration. Harvest any spruce and balsam present.</p> <p>Stand harvested as sale #009-10-01, "Hilltop Hardwoods". Complete 08/24/11. Regeneration check needed in 2015.</p>
41	429 - Mixed Upland Conifers	Sawtimber Poor	26.5	93	1-50	<p>2018: Fully stocked regen of a mix of species. Residual BA is variable, some places have more white pine.</p> <p>(2015) - Stand was treated with Tsale # 420101001, Booty Birch Revisit. TCR 8/20/2015.</p> <p>2008: Stand is a mixed bag of beech, red maple, p.birch, spruce, balsam, white pine and hemlock. Areas of stand vary from thick to thin with all of the above mentioned species. Beech has scale and is dying out. Soil=Rubicon sand with organic layer.</p>
42	42210 - Natural Red Pine	Sawtimber Well	14.5	80	111-140	<p>2018: BA variable 80-140.</p> <p>2008: Stand was part of the Knotched Stump Pine timber sale; sale #04-01. Sale completed on 11/07/01. Stump sprout red maple as well as b.fir regen coming in now. Some WP/beech and p.birch present in overstory.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	42290 - Natural Mixed Pine	Sawtimber Medium	49.0	80	51-80	<p>2018: Overstory is a mix of tree species, but mainly WP. BA variable but averaging about 50-60. Scattered large diameter pine. Dense regeneration. Many 1-2" DBH trees.</p> <p>2008: Stand is old with WP/RP sawlog sized trees in overstory in most places. Poor quality beech was what the stand was mostly made up of but the beech is dead/dying now. Regen in stand seems to be b.fir with some red maple, beech, hemlock, spruce and white pine. Stand seems to grow nice WP and poor quality hwd. Evaluate stand in 10 years to see what happens to beech resource. May have to treat stand with harvest followed up by a Rx burn if pine is the desired species here. 99=03,70,07 98=39,20,22 Soil-Rubicon sand with an organic layer.</p>
44	42210 - Natural Red Pine	Sawtimber Well	17.3	80	51-80	<p>2018: BA variable, averaging 70-80. Mix of regen species. Regen is less dense than surrounding stand 43.</p> <p>2008: 433 Pine, sale #03-01. Sale completed on 11/02/01. FTP #42-539 completed on 7/2002. Stand has red pine in overstory. Most of the regen here is red maple sprouts. Not much pine regen. Evaluate in 10 years to see what the status is with regen. May have to treat stand with harvest followed up with a Rx burn/plant if pine is the MO.</p>
45	42350 - Upland Hemlock	Sawtimber Poor	10.1	93	1-50	<p>2018: Residual canopy of hemlock and white pine clustered mainly in the north part of the stand. Regeneration is very dense red maple with a variety of other species mixed in.</p> <p>2008: Mixed is a mixed bag of p. birch, beech, red maple, hemlock and white pine, spruce and balsam. Beech in stand is dead/dying from scale. If treated leave hemlock and white pine, cut remaining species. MO could be hemlock rather than birch.</p> <p>(2015) - Stand was treated with Tsale# 420101001 Booty Birch Revisit. TCR 8/20/2015.</p>
46	42210 - Natural Red Pine	Sawtimber Poor	29.7	86	1-50	<p>2018: Average BA 40, though variable. Most of the regeneration is red maple and white pine. Current regen is not at acceptable stocking level.</p> <p>2008: Treat jack pine in stand. Mark red pine as well to improve maneuverability as well as opening up the canopy enough to allow jack pine to regenerate.</p> <p>Stand harvested as sale #012-10-01, "Compartment 6 Pine". Completed 12/15/11. Scarification yet to be done as of 01/27/12. Regeneration check needed in 2016.</p> <p>Regen 2016: Average regen for all stands in Compartment 6 Pine. 837 TPA of red maple, 315 TPA of American beech, 282 TPA of white pine. No jack pine regen found in survey. Residual BA 50.</p>
47	42290 - Natural Mixed Pine	Sawtimber Poor	4.8	80	1-50	<p>2018: Nice red pine with white pine. Residual BA is variable generally 20-80. 2008: Some red pine in stand is utility pole quality. If treated, scarify after treatment to prepare seedbed for regeneration. Stand harvested via shelterwood as sale #012-10-01, "Compartment 6 Pine". Completed 12/15/11. Scarification yet to be done as of 01/27/12. Regeneration check needed in 2016. Regen 2016: Average regen for all stands in Compartment 6 Pine. 837 TPA of red maple, 315 TPA of American beech, 282 TPA of white pine. No red pine regen found in survey. Residual BA 100.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	42210 - Natural Red Pine	Sawtimber Poor	3.2	80	1-50	<p>2018: Variable BA averaging about 50. Some large WP/RP. Blueberry and bracken fern.</p> <p>2008: Some red pine in stand is utility pole quality. If treated, scarify after treatment to prepare seedbed for regeneration.</p> <p>Stand harvested via shelterwood as sale #012-10-01, "Compartment 6 Pine". Completed 12/15/11. Scarification yet to be done as of 01/27/12. Regeneration check needed in 2016.</p> <p>Regen 2016: Average regen for all stands in Compartment 6 Pine. 837 TPA of red maple, 315 TPA of American beech, 282 TPA of white pine. No red pine regen found in survey. Residual BA 50.</p>
49	42210 - Natural Red Pine	Sawtimber Medium	53.5	80	51-80	<p>2018: Some scattered large pine. BA variable 50-100, averaging 80. Regen is dense in places.</p> <p>2008: Stand has occasional oak present. If treated, scarify stand after treatment where regen is sparse to prepare seedbed for pine regeneration.</p> <p>Stand harvested via shelterwood as sale #012-10-01, "Compartment 6 Pine". Completed 12/15/11. Scarification yet to be done as of 01/27/12. Regeneration check needed in 2016.</p> <p>Regen 2016: Average regen for all stands in Compartment 6 Pine. 837 TPA of red maple, 315 TPA of American beech, 282 TPA of white pine. No red pine regen found in survey. Residual BA 60.</p>
50	42200 - Natural White Pine	Sawtimber Poor	26.5	80	1-50	<p>2018: Residual WP & RP variable BA from 0-60. Fully stocked regen.</p> <p>2016 regen check: Average TPA for all stands in Compartment 6 Mix. 685 TPA of white pine, 824 TPA of balsam fir, 928 TPA of American beech, 1497 TPA of red maple. Residual BA of 50.</p> <p>2011: Stand harvested via shelterwood as sale #011-10-01, "Compartment 6 Mix". Completed 12/15/11. Regeneration check needed in 2015.</p> <p>2008: Mixed softwood consists of red and jack pine planted in 1939. Mixed hardwood consists of beech/birch/oak, mostly low quality. Some of the larger overstory red and white pine are very old. Beech in stand is dead or dying from scale. Treat stand and encourage pine, spruce oak regeneration. 98=32,31,21,20.</p>
53	42350 - Upland Hemlock	Sawtimber Medium	32.1	91	51-80	<p>2018: Dense regeneration mainly hemlock and balsam fir. Residual BA mainly 50-70.</p> <p>2008: Stand is a mixed bag of low quality hardwoods; beech, red maple, p.birch as well as decent quality conifer. Nice WP and hemlock, some red pine, spruce and balsam as well. Regen is abundant in most species. Beech is in very bad condition with BBD. Treat stand to remove some hardwoods as well as some conifers to encourage regen release. 98(pulp)=22,20,30,31 98(saw)=39,31 Soil=rubicon sand with organic layer.</p> <p>Stand harvested via shelterwood as sale #011-10-01, "Compartment 6 Mix". Completed 12/15/11. Regeneration check needed in 2015.</p> <p>Regen 2016: Average TPA for all stands in Compartment 6 Mix. 685 TPA of white pine, 824 TPA of balsam fir, 928 TPA of American beech, 1497 TPA of red maple, 267 TPA of hemlock. Residual BA of 20.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	429 - Mixed Upland Conifers	Sawtimber Well	16.5	92	81-110	<p>2017: A lot of dead/down beech. Canopy is patchy due to dead beech - BA 40-110. Dense hemlock and balsam fir regen.</p> <p>2008: Beech in stand has been severely attacked by beech bark disease; beech is either dead or dying. Stand may have been treated this time but mother nature seems to be doing it herself. Beech in overstory will soon be dead if not already and it is creating enough canopy gaps that the reproduction has started on the ground and is beginning to fill in. Abundant regen in understory in most species, especially hemlock. Re-evaluate stand in 10 years. 99=07,03,10,04. 98=20,22,30. Soil=Rubicon sand with organic layer.</p>
55	429 - Mixed Upland Conifers	Sawtimber Well	12.4	101	111-140	<p>2018: Stand contains a variety of sizes and ages of trees. Some legacy white pine. Some hills, generally slopes down toward the west.</p> <p>2008: Stand is in a 'depression' compared to surrounding terrain. Beech in stand is dying/dead from scale. Soil=Rubicon sand with organic layer.</p>
56	42200 - Natural White Pine	Sawtimber Medium	9.3	91	51-80	<p>2018: Dense trees 1-5" dbh with large WP throughout.</p> <p>2008: Stand falls in a 'depression'. It was shelterwooded in the early 80's. South side of stand is steeper and more stocked than the north side. Hemlock, fir, maple regenerating. 99=07,03,04. Beech has scale and is dead/dying.</p>
57	42350 - Upland Hemlock	Sawtimber Medium	41.0	92	1-50	<p>2017: Two aged: canopy is mainly hemlock, with variable BA 10-70. Beech is mainly dead. Dense saplings from harvest in 1980's.</p> <p>2008: Stand was shelterwooded in early 80's. Abundant regeneration along with maple, fir, beech, hemlock and some white pine. Beech is dead/dying from scale. Overstory of r.maple, beech with some hemlock and white pine. Some pole sized hemlock. Most regen is nearly sapling sized. 99=04,03,07.</p>
58	4119 - Mixed Northern Hardwoods	Sapling Well	23.9	37	1-50	<p>2017: Stand basically has 3 ages: majority of trees are saplings from harvest in 1980's, there are some residual trees left from the harvest in 2011, and there is regen from the 2011 harvest also. Residual BA is variable 10-50. Dense raspberry along the road.</p> <p>2011: Stand harvested as sale #009-10-01, "Hilltop Hardwoods". Complete 08/24/11. Regeneration check needed in 2015.</p> <p>2008: Stand was shelterwooded in early 80's. Stand has an occasional white pine & hemlock. Some of the sawlog sized maple is decent by most of overstory hardwood has a defect; poor form, cracked, cankered, etc. Beech in stand is dying/dead from scale. Abundant regen, sapling sized. Possibly treat to release regen. Hemlock and white pine scattered throughout stand.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	4119 - Mixed Northern Hardwoods	Sapling Well	17.6	38	1-50	<p>2017: Three distinct ages/sizes of trees. Majority of stand is saplings from harvest in 1980's. Some residual log sized trees of a variety of species. Regen is from harvest cut in 2011. Dense raspberry along road.</p> <p>2011: Stand harvested as sale #009=10-01, "Hilltop Hardwoods". Complete 08/24/11.</p> <p>2008: Stand was shelterwood harvest in early 1980's. Stand has an occasional white pine & hemlock. Some of the sawlog sized maple is decent but most of overstory hardwood has defect: poor form, cracked, cankered, etc. Beech in stand is dying/dead from scale. Abundant regen, sapling sized. WLD 2008: leave super canopy conifers, leave a few wolfy large diameter trees of various species.</p>
61	429 - Mixed Upland Conifers	Sawtimber Well	28.5	97	111-140	<p>2017: Long narrow stand on steep hill. Few beech left. 2008: Stand falls on a very steep hillside/escarpment that borders the blind sucker flooding. Would be extremely difficult to treat. Escarpment has visual influences as well. Hemlock and white pine predominately on hillside with red maple, y.birch and beech throughout. Most timber is large diameter and some is overmature. Nice white pine. Beech in stand is dead/dying from scale.</p>
62	4115 - Y.Birch, Hemlock NH	Sawtimber Well	25.6	92	111-140	<p>2017: Too steep for logging. Scenic view of Blind Sucker flooding.</p> <p>2008: Stand falls on very steep escarpment leading to blind sucker flooding. Most timber is large and overmature. Several seedlings and saplings in understory. Beech is dead/dying from BBD. Hemlock and white pine throughout in overstory. 99=04,01,07,49</p>
63	4115 - Y.Birch, Hemlock NH	Sawtimber Well	11.2	92	81-110	<p>2008: Stand falls on the bottom of a steep escarpment adjacent to flooding. Stand has a hardwood mix of red maple, beech, yellow & white birch. Also a softwood mix of balsam, cedar, spruce, with a few hemlock & white pine. Beech is dead/dying from scale.</p>
66	42210 - Natural Red Pine	Sawtimber Medium	8.3	80	51-80	<p>2018: Mainly RP log/poles with BA ranging generally from 40-90.</p> <p>2008: 433 Pine, sale #03-01. Sale completed on 11/02/01. FTP #42-539 completed on 7/2002. Stand has red pine in overstory. Most of the regen here is red maple sprouts. Not much pine regen. Evaluate in 10 years to see what the status is with regen. May have to treat stand with harvest followed up with a Rx burn/plant if pine is the MO.</p>
67	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.4	92	111-140	<p>2017: Stand contains seeps and drainages from steep hill to Blind Sucker flooding. Difficult access up a very steep, washed out trail.</p> <p>2008: Stand is adjacent to B.sucker flooding at the bottom of a steep escarpment. Stand contains a mix of cedar, hemlock, white pine, spruce/balsam. Also some yellow birch and red maple present. Very old stand. Some regeneration present in all species mentioned above. Ground in here can be seasonally saturated. 98=20,39,22 99(pulp)=10,03,04 Soil=Croswell/Spot Complex.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.2	91	81-110	2008: Stand falls on very steep escarpment leading to blind sucker flooding. Most timber is large and overmature. Several seedlings and saplings in understory. Beech is dead/dying from BBD. Hemlock and white pine throughout in overstory. 99=04,01,07,49
69	429 - Mixed Upland Conifers	Sawtimber Medium	19.3	92	51-80	2017: Basically 2-aged: residual trees from harvest in 80's, and saplings growing in from that harvest. The canopy is variable 30-100 BA. Dense regeneration of saplings. A lot of hemlock regeneration. Most beech is dead or in poor condition. 2008: Stand was shelterwooded in the early 80's. Abundant reproduction; hemlock, b.fir, red maple and beech. Stand would be ready for another treatment but mother nature is doing it herself. Hwd regen is filling in the canopy gaps created by dying beech. Beech is dying or dead already. Would not be much here to treat without cutting some WP or hemlock also. Some beech is still alive but probably not for long. Re-evalutate in 10 years.
70	6120 - Lowland Cedar	Poletimber Medium	8.8	86	1-50	2018: Field data from 2008, did not visit this entry. 2008: Trees are dying/dead, looks to have been flooded out with high water table. Standing snags now, cedar mostly. Soil=Crowell/Spot Complex.
71	42350 - Upland Hemlock	Sawtimber Well	33.6	100	81-110	2018: Few beech in poor shape. Species density and composition is variable. 2008: The large overstory of beech is dying/dead from the beech bark disease. Several dead trees standing. Stand is mostly hemlock/beech/birch. Hemlock is multiple aged and regeneration is abundant. Some large diametered hemlock in here. Evaluate stand in 10 years to see what impact the beech loss has on stand. Hemlock regeneration may take over in the canopy gaps created by the dying beech. 98=20,22,30. Soil=Rubicon sand with organic layer.
72	42350 - Upland Hemlock	Sawtimber Poor	8.2	83	1-50	2018: Mixed regeneration - fully stocked. (2015) - Stand was treated with Tsale# 420101001 - Booty Birch Revisit. TCR 8/20/2015. 2008: Stand is mixed bag of hemlock, white pine, birch, r.maple, beech, spruce and balsam. Hardwoods are low quality. Beech has scale. Hemlock regen throughout and regeneration varies in species across stand. Leave all hemlock and white pine if treated. Cut any RP/JP present, some survived from a 1939 planting but not many. Soil=Rubicon sand with organic layer. 98=32,20,21.
73	42140 - Planted Mixed Pine	Sawtimber Medium	23.0	80	81-110	2018: Residual BA ranging from 40-100. Red pine, white pine, hemlock, paper birch and oak. Regeneration mainly red maple with beech, balsam fir and white pine. 2008: Stand was planted in 1939 with a jack pine red pine mix. Harvest jack pine and mark some red pine to improve maneuverability as well as opening up the crown canopies enough to encourage pine regeneration. Scarify stand in more open areas after harvest to expose mineral soil for pine seed germination. Stand harvested via shelterwood as sale #012-10-01, "Compartment 6 Pine". Completed 12/15/11. Scarification yet to be done as of 01/27/12. Regeneration check needed in 2016. Regen 2016: Average regen for all stands in Compartment 6 Pine. 837 TPA of red maple, 315 TPA of American beech, 282 TPA of white pine. No red pine regen found in survey. Residual BA 75.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
74	4319 - Mixed Upland Forest	Sapling Well	19.4	8	1-50	<p>2018: Scattered residual consisting mainly of WP (BA variable 0-40). Fully stocked regeneration of a mix of hardwoods and conifers.</p> <p>2008: Mixed hardwood consists of beech/birch/oak, mostly low quality. Some of the larger overstory red and white pine are very old. Beech in stand is dead or dying from scale. Priority to treat stand is low but if treated, shelterwood stand and encourage pine, spruce oak regeneration. 98=32,21,22,20. Soil type is rubicon sand with and organic layer.</p> <p>Stand harvested via shelterwood as sale #011-10-01, "Compartment 6 Mix". Completed 12/15/11. Regeneration check needed in 2015.</p> <p>Regen 2016: Average TPA for all stands in Compartment 6 Mix. 685 TPA of white pine, 824 TPA of balsam fir, 928 TPA of American beech, 1497 TPA of red maple, 267 TPA of hemlock. Residual BA of 20.</p>
77	42220 - Natural Jack Pine	Poletimber Well	4.1	78	81-110	<p>2018: Stand was left as long term retention buffer along Blind Sucker Flooding when adjacent stand 19 was harvested as sale #008-10-01, "Campground Pine".</p>
79	42210 - Natural Red Pine	Sawtimber Poor	9.5	88	1-50	<p>2018: Sparse overstory. Stand is sloping towards the south, Blueberry and brackenfern. South portion of stand is lower in elevation and contains more regeneration of varying species.</p> <p>2008: Knotched Stump Pine, sale #04-01. Sale completed on 11/07/01. FTP # 42-540 completed July, 2002. Overstory of RP left from harvest. Regen is mostly r.maple and beech stump sprouts. B.fir regen prevelant as well. Some J.pine regen, but not much. In the future maybe remove some of the red pine overstory once regen is more established.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
1	500 - Water	4.7	No	Blind Sucker River.
22	6225 - Bog	20.5	No	A few scattered tamarack/cedar seedlings/saplings present. Water levels seasonally fluctuate. Marsh/bog most of the time. Brush/grass ground cover with a few standing tree snags.
34	6225 - Bog	43.0	No	A few scattered tamarack/cedar seedlings/saplings present. Water levels seasonally fluctuate. Marsh/bog most of the time. Brush/grass ground cover with a few standing tree snags.
51	622 - Lowland Shrub	2.6	No	Marsh/shrub area next to blind sucker river. Area is seasonally flooded. Soil=Aquents/histosols.
52	622 - Lowland Shrub	2.0	No	Tag alder brush ~15' tall, some willow brush mixed in as well. Grass on the ground.
60	122 - Road/Parking Lot	7.5	No	County Road 416 and it's right-of-way.
64	122 - Road/Parking Lot	7.9	No	County Road 378 and it R.O.W. Sale #047-09-02. Negotiated sale within the County Road ROW. Completed 08/30/10.
65	122 - Road/Parking Lot	1.8	No	County Road 433 and it R.O.W.
75	3102 - Grass	1.5	No	2008: Open grown along the east bank of the flooding near the dam. Some scattered, wolfy red pine/jack pine. Mostly open grown and bare sand. Area may some day fill in with trees. Grass and bracken fern ground cover.
76	6225 - Bog	2.0	No	A few scattered tamarack/cedar seedlings/saplings present. Water levels seasonally fluctuate with flooding levels. Marsh/bog most of the time. Brush/grass ground cover with a few standing tree snags.
83	622 - Lowland Shrub	0.6	No	Tag alder brush ~15' tall, some willow brush mixed in as well. Grass on the ground.
84	622 - Lowland Shrub	2.3	No	