



# Compartment Review Presentation

## Newberry Forest Management Unit

Compartment 42080

Entry Year 2019

Acreage: 2,769

County Luce

Management Area: Tahquamenon River Patterned Fen

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**Revision Date:** 2017-09-07

**Stand Examiner:** Jason Tokar

### Legal Description:

T47N R09W Section(s) 1, 2, 11 - 15, 23, 24

### Identified Planning Goals:

To maintain forest health and sustainability while enhancing diversity, with emphasis on wildlife, recreation, and fisheries needs. Cover types range from lowland black spruce and lowland conifers, marsh and lowland brush to large blocks of northern hardwoods and ridges of jack pine.

### Soil and topography:

South end of the compartment is primarily comprised of upland Rousseau sand pine ridges with lowland marshes of Dawson/Greenwood/Loxley muck. The north end is rolling upland hardwoods of Spot/Finch, Paquin/Finch and Wallace/Spot with Carbondale/Lupton/Tawas interspersed along lower grounds.

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

The compartment is comprised of one large contiguous block of State land and one 200 acre parcel of State land surrounded by The Hancock Group lands. The Hancock lands the northern half of the compartment to the west, while south of those lands is a mix of small private parcels and State land. South and east is bordered by a mixture of Hancock lands and small private parcels. The entire northern boundary is bounded by private lands. Development in and around the compartment is low. The main type of land use in the area are hunting, fishing, ORV riding and berry picking.

### Unique Natural Features:

MNFI doesn't list any occurrences within the compartment. Potential is there for a variety of flora and fauna including English sundew, meadow beauty, round-leaved orchis, yellow pitcher plant, red shouldered hawk, eagle, osprey, moose, wolf and Blandings turtle.

### Archeological, Historical, and Cultural Features:

The State Historic Preservation Office does not list any historical features within the compartment.

### Special Management Designations or Considerations:

### Watershed and Fisheries Considerations:

Fisheries Values: Minimal

Fisheries Concerns: The entire Murphy Creek system is classified as a nondesignated trout stream. Even so, summer water temperatures in 2005 at M-123 were cold enough to support Brook Trout. Treatments in stands near the streams should follow standard BMP's.

### Wildlife Habitat Considerations:

Compartment 80 lies in the Seney Sand Lake Plain ecological sub-subsection in central Luce county and the Tahquamenon River Patterned Fem Management Area with Blackburnian warbler black bear, moose, red crossbill, snowshoe hare, and spruce grouse designated as featured species. The compartment is largely comprised of lowland types including spruce, swamp conifers, marsh, and treed bogs with lesser components of hardwood and pine. Species diversity of the stands is decent and excellent wildlife travel corridors exist along several streams and ridges that run through the compartment. The current vegetation patterns in this compartment are expected to be similar to pre-settlement periods.

Hemlock will generally be retained and encouraged as cover and browse for moose, as well as the retention of understory fir pockets. White pine will often be retained to serve as bear refuge trees and numerous species will be regenerated as food or cover for snowshoe hare. Bogs, marshes, and vernal pools will be buffered to protect wetland wildlife values and habitats and preserve travel corridors. White-tailed deer, black bear, moose, coyote, gray wolf, sharptailed grouse, otter, mink, bobcat, and hare are noteworthy wildlife species using this compartment.

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

Gravel pits are not located in the area. There may be some sand and gravel potential within the compartment but little information about the surface geology is available for the area. Much of the compartment is covered by wetlands, which could limit any sand and gravel development. There is no known metallic mineral potential in this area, and there is no known potential for economic oil and gas production in the UP.

## **Vehicle Access:**

The compartment is located 10 miles north of Newberry on M-123, north of Murphy Creek. The Murphy Creek Road is a poor sand road which is used by numerous camp owners. A portable bridge is currently in place to access the compartment from the south. Some access from the north, through Hancock land from M-123. Access is questionable from the north through numerous private landowners along Fordney Tower Road.

## **Survey Needs:**

For management activities to occur: the establishment of the East 1/4 corner of Section 12; the E1/16, NE1/16 and center of Section 13; N1/16 on east line and NE section corner of section 26; W1/16 of section 14.

## **Recreational Facilities and Opportunities:**

Other recreational opportunities include hunting, fishing and wildlife viewing. There are a number of hunting camps on private lands adjacent to the property.

## **Fire Protection:**

Pine mixed with grassy/brush marsh fuel types throughout this compartment have potential for large fire development. Mixture of marsh areas could be a challenge to suppression forces. There are a fair number of roads, but most are difficult to navigate and will require extensive work to be used as fire lines. Private properties in and around the compartment could be at risk because of fuels and accessibility.

## **Additional Compartment Information:**

Treatments in stands 1, 4, 9, 10, 12, 14, 19, 21 & 22 all have early start dates of 10/25/2017. Currently we have access across Hancock land to treat these stands.

## **The following reports from the Inventory are attached:**

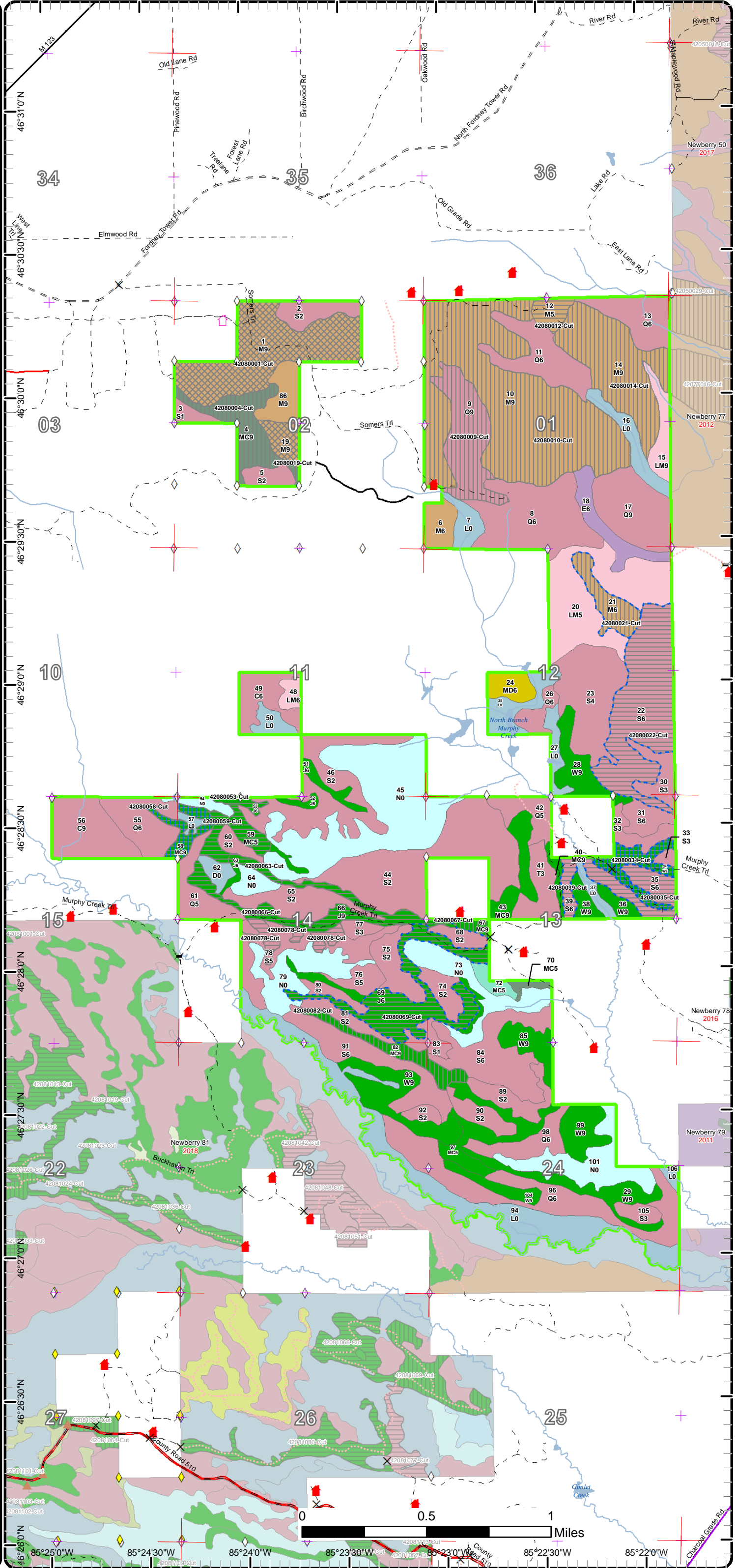
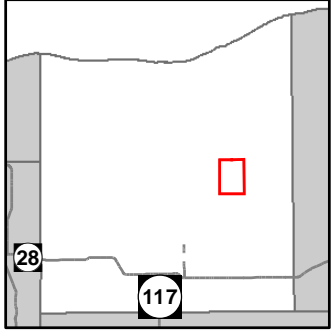
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

## **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

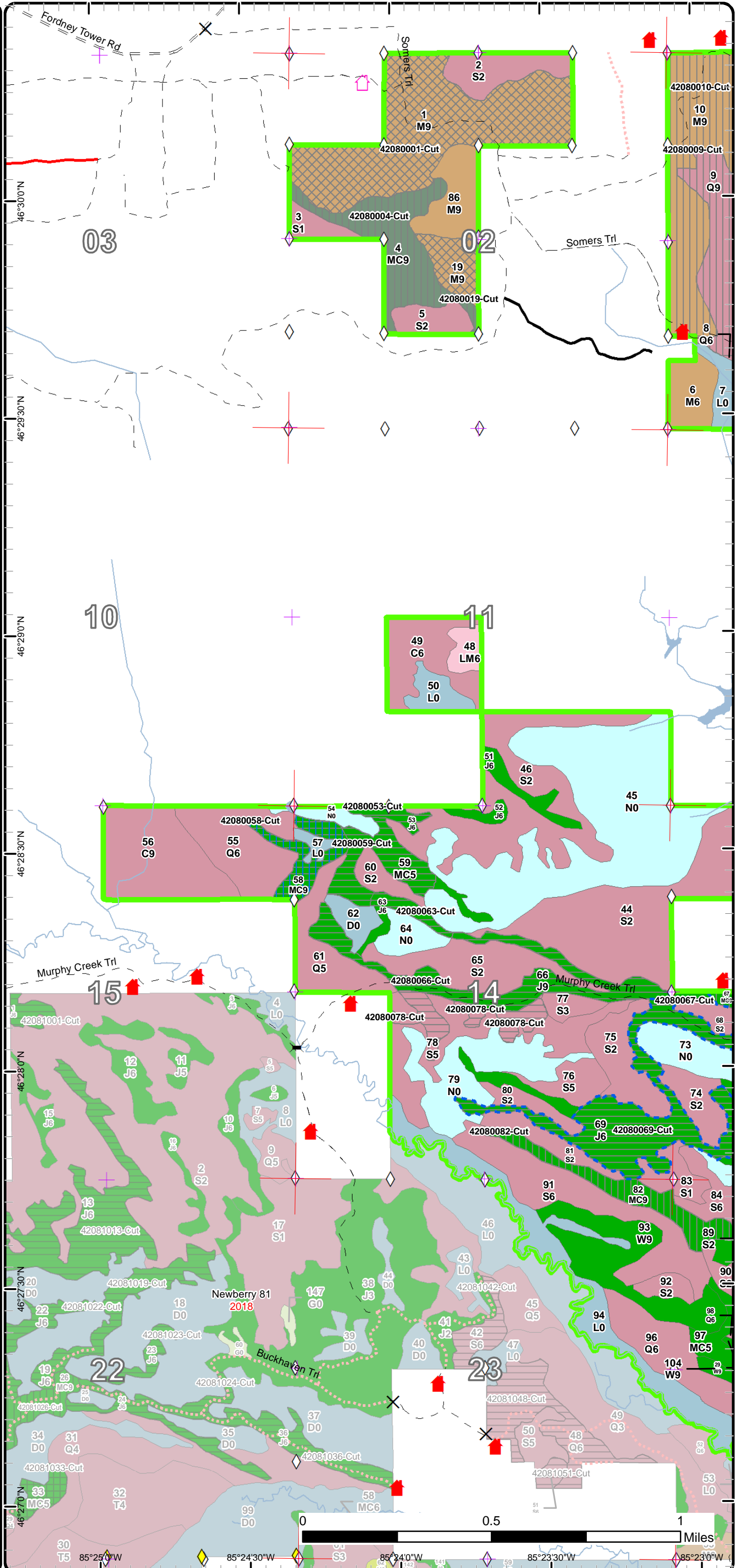
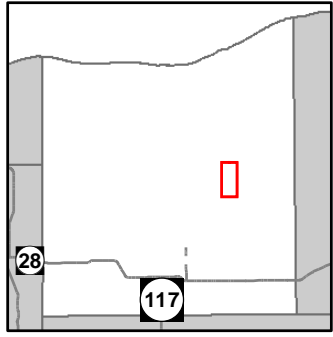
Compartment: 80  
 T47N, R09W, Sec. 1, 2, 11-15, 23, 24  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Tahquamenon River  
 Patterned Fens  
 YOE: 2019  
 Acres: 2769.1 GIS Calculated  
 Examiner: Jason Tokar  
 Map Revised: 12/12/2017  
 Map Phase: Post-Review



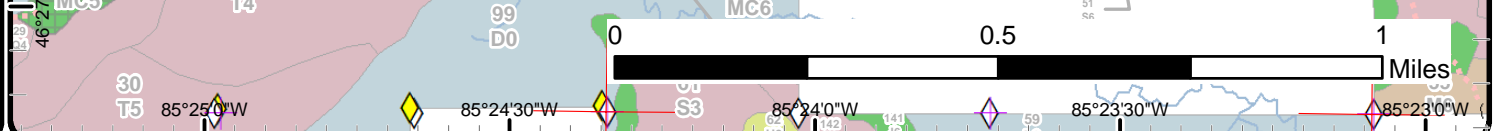
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- Remonumented Section Corners
- Survey Grade GPS Corners
- Field Grade GPS Corners
- Counties
- Gate
- Bridge
- Unspecified Structure
- Cabin
- County Paved Roads
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers 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
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

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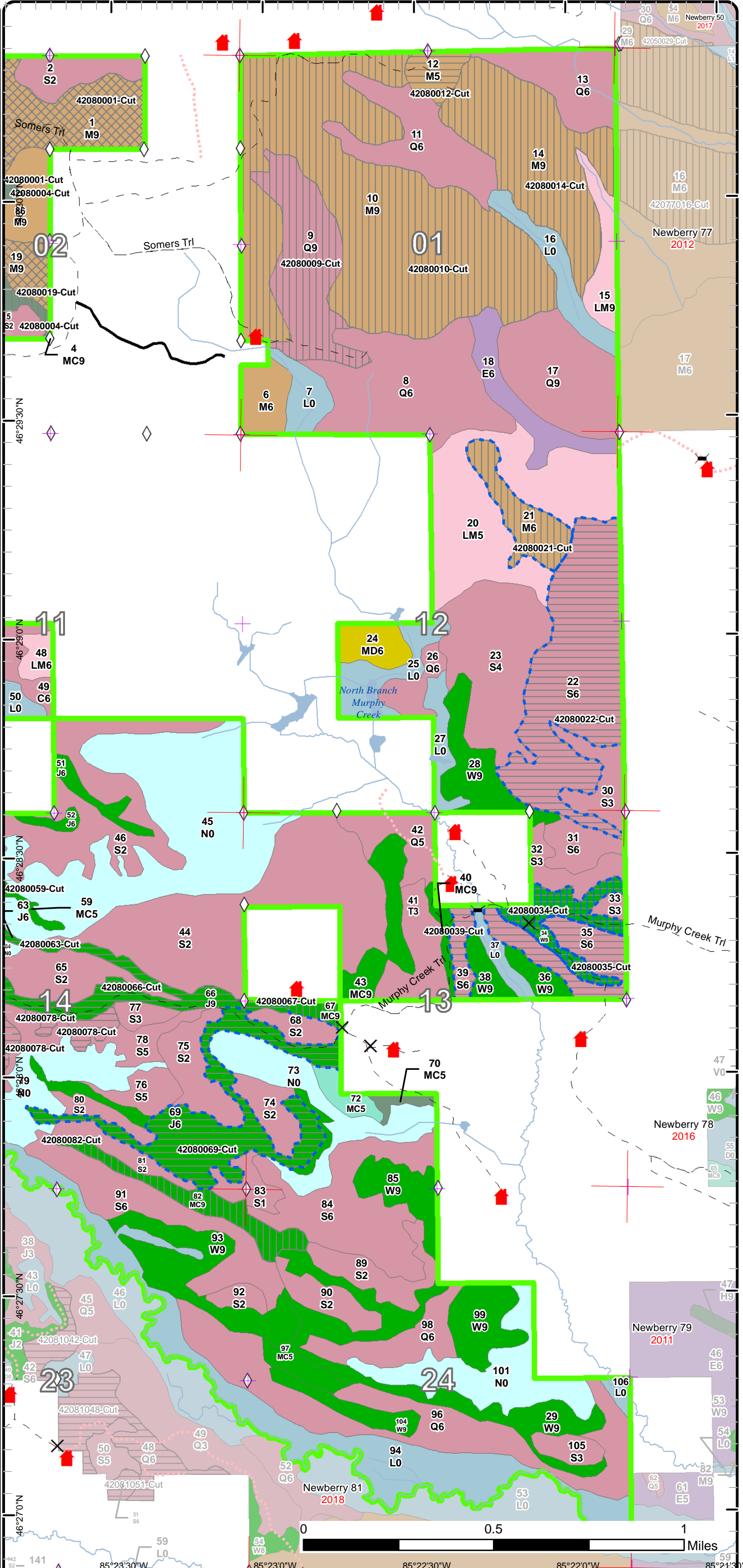
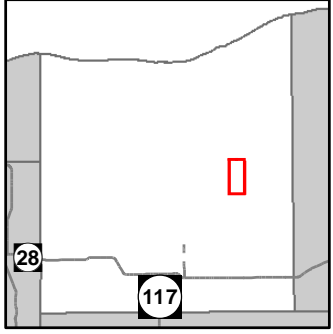
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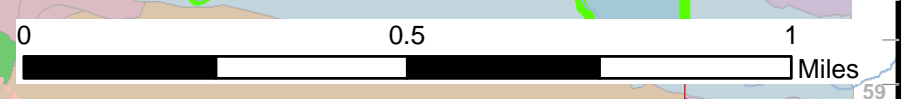


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46°29'00"N 46°28'30"N 46°28'00"N 46°27'30"N 46°27'00"N 85°23'30"W 85°23'00"W 85°22'30"W 85°22'00"W 85°21'30"W





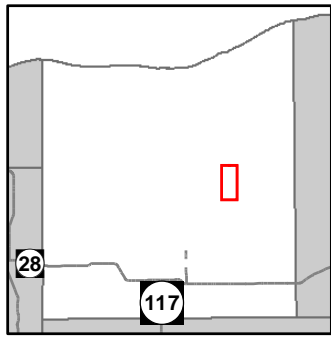




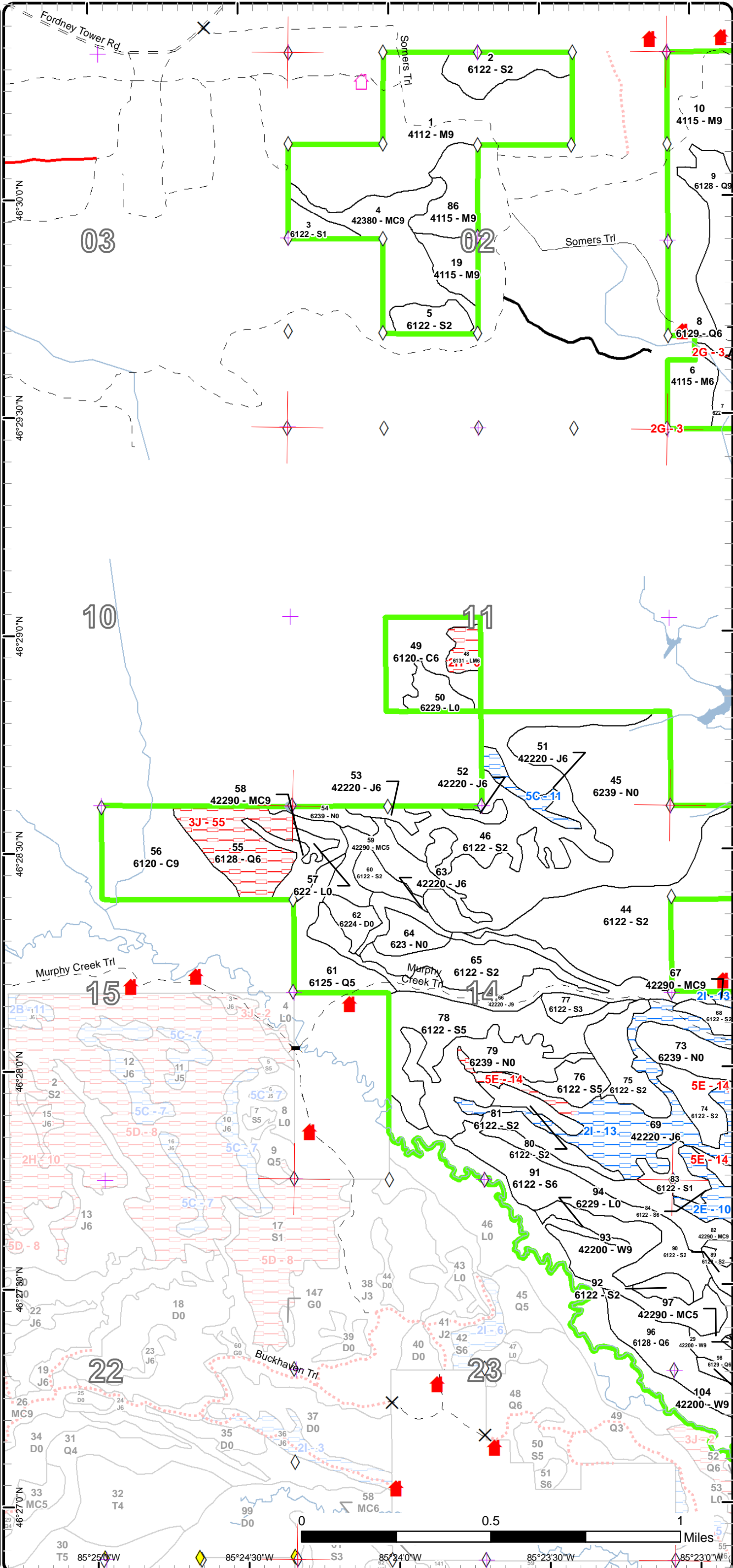


# Special Conservation Areas & Site Conditions Map

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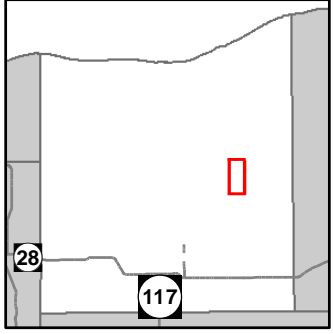
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2E: Road needed
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries



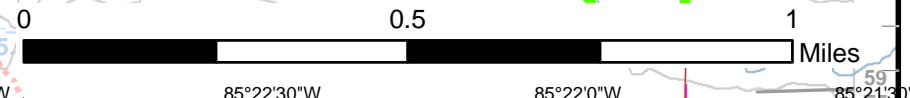
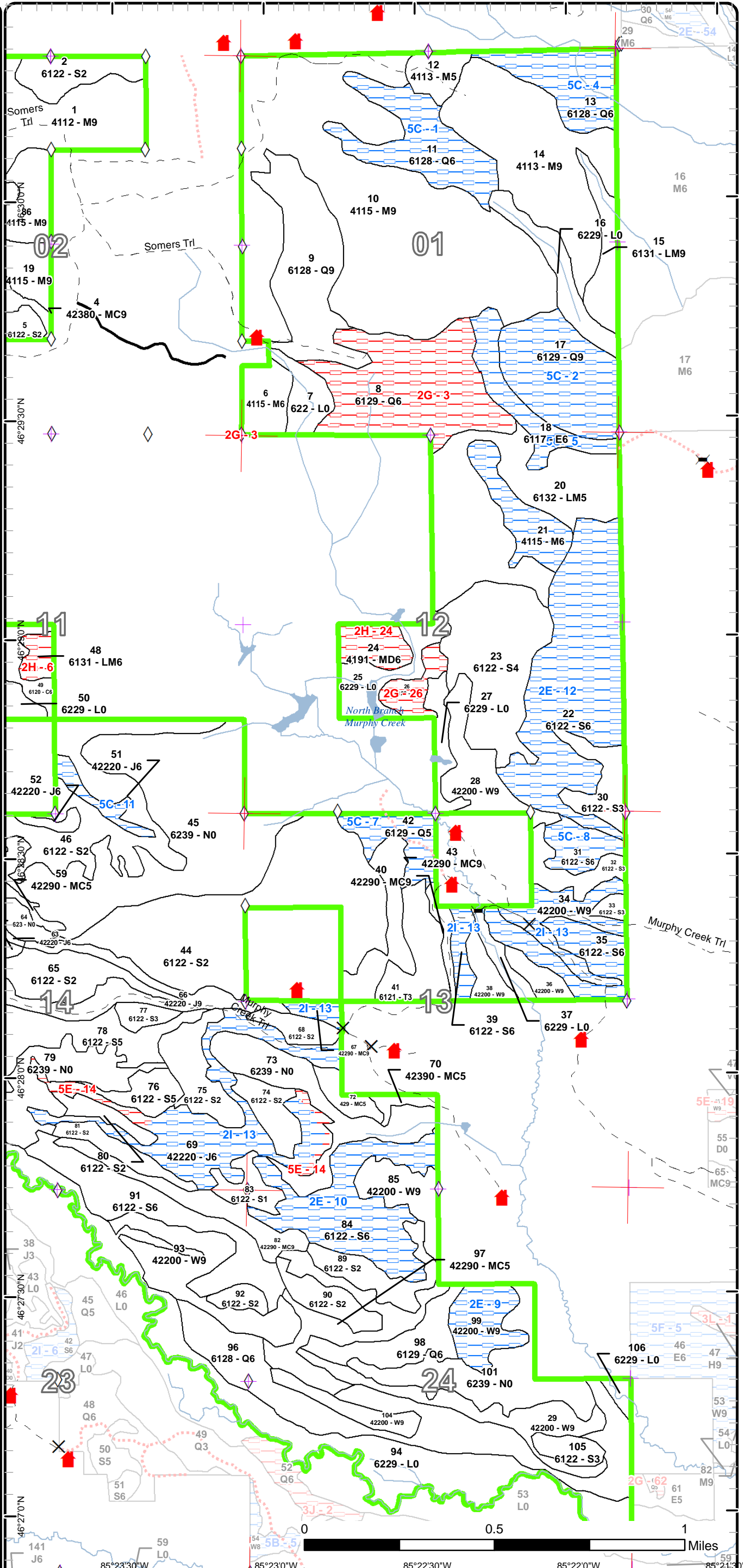


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- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



85°23'30"W 85°23'0"W 85°22'30"W 85°22'0"W 85°21'30"W



# Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment 80    Year of Entry 2019



## 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
Cedar	0	0	0	0	0	0	0	0	0	25	0	43	0	0	0	0	0	0	68
Jack Pine	0	0	0	0	0	0	124	0	0	0	0	0	0	0	0	0	0	0	124
Lowland Conifers	0	0	0	0	0	75	0	23	224	30	50	0	0	0	0	0	0	21	423
Lowland Deciduous	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22
Lowland Mixed Forest	0	0	0	0	0	0	0	0	16	84	0	0	0	0	0	0	0	6	106
Lowland Shrub	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177
Lowland Spruce/Fir	0	0	0	8	75	361	0	98	201	0	0	0	0	0	0	0	0	0	742
Marsh	258	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	258
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	12
Natural Mixed Pines	0	0	0	0	0	0	21	30	0	63	0	0	0	0	0	0	0	0	112
Northern Hardwood	0	0	0	0	0	0	0	11	0	446	0	0	0	0	0	0	0	21	477
Tamarack	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	22
Treed Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Conifers	0	0	0	0	0	11	0	0	0	0	37	0	0	0	0	0	0	0	48
White Pine	0	0	0	0	0	0	0	0	0	150	20	0	0	0	0	0	0	0	170
<b>Total</b>	<b>442</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>75</b>	<b>469</b>	<b>145</b>	<b>162</b>	<b>463</b>	<b>811</b>	<b>107</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>2768</b>





## Report 2 – Treatment Summary

**Newberry Mgt. Unit**  
**Year of Entry: 2019**

**Acres of Harvest**

**Compartment 80**  
**Total Compartment Acres: 2,769**

Commercial Harvest - 622  
 Harvests with Site Condition - 236  
 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
Jack Pine	101	0	0	0	0	0	0	0	0	101
Lowland Conifers	0	0	0	0	52	0	0	0	0	52
Lowland Spruce/Fir	148	0	0	0	0	0	0	0	0	148
Natural Mixed Pines	18	0	0	13	24	0	0	0	0	56
Northern Hardwood	11	108	0	0	325	0	0	0	0	444
Upland Conifers	0	0	0	0	37	0	0	0	0	37
White Pine	0	0	0	21	0	0	0	0	0	21
<b>Total</b>	<b>278</b>	<b>108</b>	<b>0</b>	<b>34</b>	<b>438</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>858</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	858	0	0	0	0	0	0	0	0	858
Next Step	0	0	0	119	0	0	858	0	0	977
<b>Total</b>	<b>858</b>	<b>0</b>	<b>0</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>858</b>	<b>0</b>	<b>0</b>	<b>1835</b>





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
1	42080001-Cut	95.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Selection. Residual BA of 60-80. Reduce the BA down to 50-60 in areas to release advanced regeneration or due to poor quality. Retain a											
<u>Specs:</u> component of all species present in the stand. Retain all hemlock for moose. Remove all merchantable beech. Protect advanced regeneration from damage.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Sugar maple, red maple, yellow birch, hemlock											
<u>Regen:</u>											
<u>Other</u> Early start date of 10/25/2017 due to possible future access issues..											
<u>Comment:</u>											
Proposed Start Date: 10/25/2017											

4	42080004-Cut	37.1	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	100	111- 140	Harvest	Shelterwood with Retention	4312 - Hemlock, Mixed Deciduous	Two-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Shelterwood with retention. Retain pockets of hemlock, but not all. Remove low quality red maple. Residual maple should be 9-12 inch classes											
<u>Specs:</u> where the best quality is. Retain most of the yellow birch. Remove spruce and balsam (SBW concerns). Wet drainages should be excluded from sale boundary.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Hemlock, maple, spruce, yellow birch, cedar. beech											
<u>Regen:</u>											
<u>Other</u> Early start date of 10/25/2017 due to possible future access issues.											
<u>Comment:</u>											
Proposed Start Date: 10/25/2017											

9	42080009-Cut	52.0	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	88	81-110	Harvest	Shelterwood with Retention	6139 - Mixed Lowland Forest	Two-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Shelterwood with retention. Retain an average of 40-50 BA of hemlock and white pine. Retain hemlock patches. Retain large diameter white											
<u>Specs:</u> pine. Retain a component of yellow birch. Remove all red maple, spruce, white birch, balsam and beech. Avoid areas of good hemlock regeneration.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Hemlock, red maple, yellow birch, white pine and spruce.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
Proposed Start Date: 10/25/2017											

10	42080010-Cut	222.9	4115 - Y.Birch, Hemlock NH	Sawtimber Well	90	111- 140	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Shelterwood with retention. Remove all red maple with top dieback, and all low quality, large diameter red maple. Residual should concentrate											
<u>Specs:</u> on healthy sugar maple, and better quality red maple, mainly in the 8-12 inch diameter classes. Residual BA of 40 on average. Retain hemlock and a component of yellow birch and spruce. Remove merchantable balsam. Protect any vernal ponds located within the stand.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Red maple, sugar maple, yellow birch, beech with component of hemlock, balsam and spruce											
<u>Regen:</u>											
<u>Other</u> Early start date of 10/25/2017 due to possible future access issues.											
<u>Comment:</u>											
Proposed Start Date: 10/25/2017											





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
12	42080012-Cut	10.5	4113 - R.Maple, Conifer	Poletimber Medium	76	1-50	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clearcut with retention. Retain yellow birch, hemlock, a few large diameter spruce and any white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red maple, black cherry, white birch, beech, balsam, white pine, spruce

Regen:

Other Early start date of 10/25/2017 due to possible future access issues.

Comment:

Proposed Start Date: 10/25/2017

14	42080014-Cut	80.8	4113 - R.Maple, Conifer	Sawtimber Well	90	81-110	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Shelterwood with retention. Remove all maple with top dieback, and all low quality, large diameter red maple. Residual should concentrate on healthy sugar maple and better quality red maple. Retain hemlock and a component of yellow birch and spruce. Remove merchantable balsam. Residual BA will range from 60-70 in areas of good quality, down to 30-40 in areas of low quality and top dieback. Part of stand 15 may be included in the sale once exact stand lines are run during sale preparation.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red maple, yellow birch, sugar maple, hemlock, spruce, balsam

Regen:

Other Early start date of 10/25/2017 due to possible future access issues.

Comment:

Proposed Start Date: 10/25/2017

19	42080019-Cut	12.4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	95	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Selection. Residual BA of 80-90 in areas of better quality. In areas of lower quality, residual BA of 60-70. Retain a component of hemlock and spruce.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red maple, sugar maple, yellow birch, hemlock.

Regen:

Other Early start date of 10/25/2017 due to possible future access issues.

Comment:

Proposed Start Date: 10/25/2017

21	42080021-Cut	21.0	4115 - Y.Birch, Hemlock NH	Poletimber Well	90	81-110	Harvest	Shelterwood with Retention	4115 - Y.Birch, Hemlock NH	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Road Needed**

Prescription Shelterwood with retention. Retain all hemlock and yellow birch. Retain a small component of red maple, if healthy. Residual BA of 40 sq ft average.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Yellow birch, red maple, hemlock, spruce, balsam

Regen:OtherComment:

Proposed Start Date: 10/25/2017





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
22	42080022-Cut	99.5	6122 - Black Spruce	Poletimber Well	80	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary

**Habitat Cut: No**      **Site Condition: Road Needed**

Prescription Clearcut with retention. Patch retention, patches at least 1/2 acre in size to help avoid windthrow. Leave all hemlock. A few red pine and white pine can be retained on small ridges within the northern and southern portions of the stand. Retention not to exceed 5% of stand acreage.  
Specs: Possible access from south through private if too wet to freeze in from the north.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce with tamarack, white pine and some red maple and white birch.

Regen:

Other

Comment:

Proposed Start Date: 10/25/2017

34	42080034-Cut	20.7	42200 - Natural White Pine	Sawtimber Well	93	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 Seed tree with retention. Leave 20 BA of large diameter white pine, 24 inches or larger. In areas without large diameter white pine, leave 20 BA of smaller diameter white pine. Small diameter spruce will be left along stand edges. Remove all other species.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White pine with spruce, maple, aspen, balsam, white birch and some red pine.

Regen:

Other

Access may have to be from the east via Island Lake Rd. Small Bridge in stand 37 is not capable of logging truck traffic.

Comment:

Proposed Start Date: 10/01/2018

35	42080035-Cut	26.4	6122 - Black Spruce	Poletimber Well	82	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Survey Needed**

Prescription Clearcut with retention. Retention should be patch retention, at least half acre in size to help avoid windthrow. A retention strip can be left along stand 37 as well.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce with white pine, balsam, red maple and white birch. Some cedar.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

39	42080039-Cut	7.5	6122 - Black Spruce	Poletimber Well	81	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Survey Needed**

Prescription Clearcut. No retention due to small acreage. Leave 1 white pine per acre.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce with white pine, balsam, white birch, and some red maple and cedar.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
53	42080053-Cut	4.5	42220 - Natural Jack Pine	Poletimber Well	69	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clearcut. No retention. Small acreage, narrow stand. Treatment will regenerate cover for snowshoe hare and food for spruce grouse.

Specs:

Next Step Seeding, Other - Specify; Monitoring, Direct Seeding

Treatments:

Acceptable Jack pine with white pine, spruce and some red pine

Regen:OtherComment:

Proposed Start Date: 10/01/2018

58	42080058-Cut	13.4	42290 - Natural Mixed Pine	Sawtimber Well	97	51-80	Harvest	Seed Tree with Retention	4220 - Natural White Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Seed tree with retention. Retain an average of 30 BA of large diameter white pine. Small diameter spruce and jack pine will be retained along stand edges. Portion of the stand west of the drainage within the stand may be difficult to access. Harvest acres may be less than prescribed acres due to low ground areas.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White pine, spruce, jack pine, birch and maple.

Regen:OtherComment:

Proposed Start Date: 10/01/2018

59	42080059-Cut	17.9	42290 - Natural Mixed Pine	Poletimber Medium	67	1-50	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut with retention. Patch retention, not to exceed 3% of total stand acreage. Areas of lower ground and small diameter spruce will also be retained. Leave 1 large diameter white pine per acre for bear refuge trees. Access is wet, winter sale only. Harvest acres may be less than prescribed acres due to low ground areas. Do not harvest southeastern portion of the stand to provide a wildlife travel corridor.

Specs:

Next Step Seeding, Other - Specify; Monitoring, Direct Seeding

Treatments:

Acceptable Jack pine with black spruce, white pine and some red pine.

Regen:OtherComment:

Proposed Start Date: 10/01/2018

63	42080063-Cut	4.6	42220 - Natural Jack Pine	Poletimber Well	69	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut with retention. Leave 1 large diameter white pine per acre for bear refuge trees. Some jack pine and spruce will be left along stand edges of adjacent lowland. Do not cut the southwestern portion of the stand (north/south portion) to provide a wildlife travel corridor. Access from the south is wet, possibly better access from east through north part of stand 66. Regeneration should come in naturally with good slash dispersal. Possibly direct seed.

Specs:

Next Step Seeding, Other - Specify; Monitoring, Direct Seeding

Treatments:

Acceptable Jack pine with white pine, spruce and red pine

Regen:OtherComment:

Proposed Start Date: 10/01/2018





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
66	42080066-Cut	36.1	42220 - Natural Jack Pine	Sawtimber Well	69	111-140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clearcut with retention. Some jack pine and spruce will be left along stand edges due to slopes and adjacent lowland. Leave scattered red pine and white pine in areas, not to impede harvesting activities. Leave scattered understory spruce and fir as close to the top of the ridge as possible for wildlife travel corridor. Regeneration should come in naturally with good slash dispersal. Possibly direct seed.

Next Step Seeding, Other - Specify; Monitoring, Direct Seeding

Acceptable Jack pine with red pine, white pine, birch, spruce.

Other  
Comment:

Proposed Start Date: 10/01/2018

67	42080067-Cut	4.6	42290 - Natural Mixed Pine	Sawtimber Well	90	111-140	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Shelterwood. Residual BA of 30-40 of red pine and white pine for red crossbill. Remove aspen, jack pine and spruce to regenerate cover and food for snowshoe hare. Leave birch for diversity.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Red pine and white pine with aspen, jack pine and spruce.

Other  
Comment:

Proposed Start Date: 10/01/2018

69	42080069-Cut	56.2	42220 - Natural Jack Pine	Poletimber Well	69	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Clearcut with retention. Retention to be patches. Northwest "finger" of the stand to be retained for travel corridor for bear. Retain a 2 chain wide strip along Stand 73. Low areas with small diameters within the stand will also serve as retention. Leave 5-10 white pine in northeast portion of the stand along the road for bear. No other retention is needed. Harvest acres may be less than prescribed acres due to low ground areas. Old access road into the stand from the north.

Next Step Seeding, Other - Specify; Monitoring, Direct Seeding

Acceptable Jack pine with black spruce, white pine, and red pine.

Other  
Comment:

Proposed Start Date: 10/01/2018

78	42080078-Cut	14.3	6122 - Black Spruce	Poletimber Medium	72	1-50	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut. No retention, small acreage pockets of spruce being harvested. Regenerating the stand will improve cove qualities to benefit snowshoe hare.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Black spruce with tamarack, maple, white birch, white pine

Other  
Comment:

Proposed Start Date: 10/01/2018





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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
82 42080082-Cut	19.6	42290 - Natural Mixed Pine	Sawtimber Well	97	111-140	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Two-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Shelterwood with retention. Residual BA of 40-50 of white pine and red pine. Remove all spruce, jack pine, birch, maple. Some small spruce will be left along stand edges. Retention of spruce on stand edges and regenerating spruce will benefit snowshoe hare. Shelterwood treatment will retain benefits of existing wildlife travel corridor.

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

Acceptable White pine with red pine and some spruce and maple.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment  
 Acreage Proposed: 857.9**



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 80  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions								
		With Condition	Not Available		2E	2I	5C	2G	2H	3J	5E		
68	68	0	0	Cedar									
124	51	64	9	Jack Pine		56	7						9
423	171	136	116	Lowland Conifers			136	83			32		
22	0	22	0	Lowland Deciduous			22						
106	100	0	6	Lowland Mixed Forest					6				
177	177	0	0	Lowland Shrub				0					
742	541	201	0	Lowland Spruce/Fir	154	34	13						
258	258	0	0	Marsh									
12	0	0	12	Mixed Upland Deciduous					12				
113	109	5	0	Natural Mixed Pines		5							
477	456	21	0	Northern Hardwood	21								
22	22	0	0	Tamarack									
7	7	0	0	Treed Bog									
48	48	0	0	Upland Conifers									
170	129	41	0	White Pine	20	21							
2,769	2,136	489	144	Total Forested Acres	195	116	178	83	19	32	9		
	77%	18%	5%	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	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	49	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 80  
Year of Entry: 2019

3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	73	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Savage Creek runs through the middle of the stand.							
5	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	2E: Road needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 80  
Year of Entry: 2019

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	2E: Road needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Available	2E: Road needed	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Available	2E: Road needed	54	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	2E: Road needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Available	2E: Road needed	121	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Available	2I: Survey needed	116	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 80  
Year of Entry: 2019

14	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13	2E: Road needed	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	Unspecified	Unspecified
<b>Comments:</b>							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
55	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	33	2E: Road needed	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



### Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	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.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95.9	90	111-140	Stand heavily cutover in 1980-81 (T. sale #55-79A); Stand is a mix of sugar maple and red maple and yellow birch. Occasional beech, hemlock, white pine and white spruce. Beech is dying out (BBD). Large residual maple heavy with defects; beech with beech scale. Advanced understory is thick. Did get lots of maple reproduction. Also, good yellow birch regeneration and beech regeneration. This is the best part of originally stand 1 (2009 YOE), northern portion. Small area of trespass cutting (trespass report #42-001-05) done along private 40 (NWNW Sec 2). Lots of club moss ground cover. Paquin/Finch soils.
2	6122 - Black Spruce	Sapling Medium	17.1	55	Unspecified	Stand is stunted spruce and some tamarack. Small open bog in center of stand. Narrow fringe of white pine, spruce and hemlock on south end of this stand.
3	6122 - Black Spruce	Sapling Poor	6.8	55	Unspecified	Stunted spruce and tamarack
4	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	37.1	100	111-140	Nice tall hemlock. Stand is mainly hemlock with red maple, black spruce, and yellow birch. Very large diameter and tall white pine throughout. Small component of beech, most is already dead (BBD). Pockets of almost solid hemlock. Hemlock is large diameter and very tall. Areas of large diameter red maple with black spruce and large diameter white pine. Pockets of spruce. Lower areas in the stand have smaller diameter hemlock, red maple and spruce with a lot of hemlock regeneration. Good hemlock regeneration throughout the stand. Some cedar along the west and south stand edges. Beech with BBD. Almost all beech in the stand is dead. Red maple, yellow birch. Hemlock and cedar patches. Stand is a combination of lower/heavier ground and slightly higher ground.
5	6122 - Black Spruce	Sapling Medium	9.9	55	Unspecified	Stunted spruce and tamarack. Primarily spruce. Lupton/Tawas/Carbondale soils.
6	4115 - Y.Birch, Hemlock NH	Poletimber Well	14.6	90	81-110	Low quality red maple with hemlock, some large white pine, yellow birch, spruce. Occasional beech. Only access to stand is across private. Soils are Spot/Finch and Paquin/Finch.
8	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	73.1	87	51-80	Overstory of cedar, hemlock, spruce, white birch, red maple, balsam, white pine. Smaller diameters than other "Q" stands in the area. Cedar, hemlock white pine, paper birch, red maple, spruce and balsam regeneration all present. Stand is very thick in spots due to understory. Extremely wet, saturated soils. Old abandoned trail road heavily rutted (from local ORV use) - pallet thrown down to cross wet area in one spot. Soils are primarily Lupton-Tawas-Carbondale.
9	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	52.0	88	81-110	Some blowdown and dead BF/S. Hemlock with red maple, spruce, large white pine and yellow birch. Stand is wet in the center, slightly higher on the edges. South end of stand has areas of smaller diameters, more maple and spruce. Ridge of hemlock parallels the road through southern portion of the stand. Portion of stand cut under t. sale #87-64 and #40-65. Lupton-Tawas-Carbondale soils. 1999: stand 83



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
10	4115 - Y.Birch, Hemlock NH	Sawtimber Well	222.9	90	111-140	Red maple stand with a good sugar maple component. Some balsam is merchantable and reaching the canopy. Scattered large diameter hemlock and pole size white spruce. Scattered log trees but much of the large diameter red maple is pulp quality, lots of "twist". Some good quality sugar maple sawlogs. Any beech in the stand is in bad shape, BBD and scale. Substantial top dieback in the red maple, with pockets of mortality. BA ranges from 80-90 up to 130-140, depending on top dieback and mortality. Low quality stand overall. Cut in the 1930's and 1960's.
11	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	39.6	100	81-110	Heavy soils - wetter ground, Very low quality red maple with larger hemlock and white pine. Transitions into heavier conifer (S/F) type. Some yellow birch and beech. Soils are Wallace/Spot, Spot/Finch and Paquin/Finch. Ground cover noted includes: cinnamon fern, club moss, starflower, bunchberries, long beech fern and shield fern. 1999: stand 84,85
12	4113 - R.Maple, Conifer	Poletimber Medium	10.5	76	1-50	Low quality, multiple stem red maple, shorter heights. Component of sugar maple, small diameter balsam. Open area filling in slowly. Contains spruce/fir patches, RM sprouts/clumps. Some paper birch, cherry, and white pine. Some dieback and mortality in maple.
13	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	30.1	97	81-110	Drainage runs through stand with heavier hemlock component, Savage Creek. Would need culvert/road work to access. A lot of wet areas otherwise. Both good hemlock and yellow birch in places. Slightly higher ground contains more red maple. Components of yellow birch, beech (all dead or dying), white pine and cedar. Cutting in late 1960's. Ground cover noted includes: cinnamon, long beech, and shield ferns. Connects with Comp 77 stand 16 and Comp 50 stand 29. Soils include Kinross/Augres, Wallace/Spot and Spot/Finch.
14	4113 - R.Maple, Conifer	Sawtimber Well	80.8	90	81-110	Low quality maple - overmature, twisted, seams, defects, etc. Scale on beech (BBD) - lots of dead/dying. Some sugar maple, yellow birch within stand. Regen is primarily beech, although there is yellow birch and maple, white spruce and hemlock. YB, WP, H would do better on this site. Eventually remove low quality maple to encourage new regeneration. Cutting in the late 1960's. Connects with Compartment 77, which has a site condition due to access. Access will be through this compartment now. Savage Creek will limit some access to northern portion of Comp 77, Stand 16.
15	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	16.1	87	81-110	Mixed low quality hardwood with hemlock, cedar, spruce, balsam and white pine. Drainage within the northern part of the stand. Middle of the stand could be typed as adjacent hardwood stand.
17	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	49.2	87	51-80	Lowland stand. Good component of cedar, stunted cedar in a lot of areas. Drainage w/in center of stand running east and west. Some ridges and swales, but primarily low ground. Components of white pine, spruce, balsam. Some small pockets of spruce.
18	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	21.6	80	81-110	Low quality red maple with white birch, cedar, hemlock and white pine. Subtle ridge of timber within swamp. Difficult access with surrounding low ground, from the north. Would have to be winter cut only. Road access permit in 1959; old road bed is now kept open by ORV's. cuttings in early 1960's.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4115 - Y.Birch, Hemlock NH	Sawtimber Well	12.4	95	111-140	Stand heavily cutover in 1980-81 (T. sale #55-79A); did get lots of maple reproduction. Stand is a mix of sugar and red maple, with occasional beech, hemlock, yellow birch, white pine and white spruce. Large residual maple heavy with defects; beech with beech scale. Best part of stand is in the north. Small area of trespass cutting (trespass report #42-001-05) done along private 40 (NWNW Sec 2). Good YB regeneration noted, in places. Lots of club moss ground cover. Paquin/Finch soils. 1999: stand 1  Large diameter maple stand. Mainly red maple with yellow birch and sugar maple. Lesser components of beech, hemlock and occasional white pine and white spruce. Some large maple has defects. Tall hemlock. Beech is dying out of stand with a high percentage already dead. Some top dieback in maple in spots. Good component of yellow birch. Good yellow birch regeneration as well. Was originally part of stand 1 (2009 YOE) but separated out due to higher BA than stand to the north.
20	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	83.9	90	51-80	Poor quality; short, deformed trees - wet ground - some possible cutting in the 1960's. Hemlock, spruce, red maple, yellow birch, balsam, white pine. Pocket of hemlock, white pine and maple in southwest corner. Areas with more maple and hemlock and other areas with more spruce and a component of cedar. Lower "drainage" in northern portion of the stand. Small areas with cedar. Paquin/Spot soils.
21	4115 - Y.Birch, Hemlock NH	Poletimber Well	21.0	90	81-110	Poor quality red maple with yellow birch, hemlock, white birch, balsam spruce. Cutting in the mid 1960's. Slight "ridge". Access is via old road, now orv trail, form the north. Wallace/Spot soils.
22	6122 - Black Spruce	Poletimber Well	99.5	80	81-110	Lowland spruce stand. Some areas of pretty wet ground. Slight ridge of hemlock, maple and white pine cuts through the north end of stand. Very southern portion of the stand is a ridge as well. Nice thick spruce in most areas, some larger diameters up to 12 inch dbh. Photos indicate cut in late 1930's. If access can be found, this stand could be treated. Possible access from south through private if too wet to freeze in from the north. Spot/Dawson soils.
23	6122 - Black Spruce	Poletimber Poor	58.6	47	1-50	Stand was cut as sale # 9-63A - cut over 1963-1972. Sale was finally closed due to "difficult operability, remoteness, and markets". Many open areas within the stand. Wet. Some tag alder in open areas. Scattered W7 within. Kinross/AuGres soils primarily, with some Spot/Dawson along edge.
24	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.5	92	81-110	This stand is inaccessible. Paper birch is old, dead/dying. Was included as part of t. sale #9-63A - never cut due to access.
26	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	10.2	106	51-80	Poor quality timber; drainage crosses through stand. Extremely difficult access.
28	42200 - Natural White Pine	Sawtimber Well	23.7	97	51-80	Thicker white pine primarily in the west side of stand. Areas within the stand contain more low ground with spruce and some hemlock. Ground cover includes sphagnum, iris. Possible access via the ridge through private land adjacent to the south. This would provide access to stand 22 as well. Soils are Rousseau/Spot. 1999: stand 67



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	42200 - Natural White Pine	Sawtimber Well	26.4	97	81-110	Extremely tough stand to access. Long ridge of white pine with spruce, red maple and some birch. White pine, larger diameters. Spot/Dawson soils.
30	6122 - Black Spruce	Sapling Well	15.4	56	Unspecified	Stunted spruce and tamarack. Some pole size spruce and tamarack. Bog ground. Labrador tea, tagalder ground cover.
31	6122 - Black Spruce	Poletimber Well	13.1	82	51-80	Lowland spruce with a component of white pine and some cedar. Occasional white birch, Tamarack and red maple. Dawson/Greenwood/Loxley and Rousseau/Spot soils.
32	6122 - Black Spruce	Sapling Well	12.4	50	Unspecified	Mostly sapling size spruce, tamarack. A few pulp-size spruce, tamarack and white pine within the stand. Labrador tea, tag alder ground cover. Dawson/Greenwood/Loxley soils.
33	6122 - Black Spruce	Sapling Well	3.1	50	Unspecified	Mostly sapling size spruce, tamarack. A few pulp-size spruce, tamarack and white pine within the stand. Labrador tea, tagalder ground cover. Dawson/Greenwood/Loxley soils.
34	42200 - Natural White Pine	Sawtimber Well	20.7	93	81-110	Large diameter white pine, very tall. Spruce, red maple, aspen, white birch, balsam. Some lower pockets of spruce. Pockets of old aspen and paper birch, most dying out of the stand. Component of red pine and cedar.
35	6122 - Black Spruce	Poletimber Well	26.4	82	81-110	Black spruce with components of tamarack, white pine, white birch. Some areas of larger spruce, 10 inches and 5 sticks tall. Occasional cedar. large diameter white pine. Some red maple. Fairly nice spruce stand.
36	42200 - Natural White Pine	Sawtimber Well	7.3	93	81-110	Large diameter white pine, very tall. Spruce, red maple, aspen, white birch, balsam. Some lower pockets of spruce. Pockets of old aspen and paper birch, most dying out of the stand. Component of red pine and cedar.
38	42200 - Natural White Pine	Sawtimber Well	8.0	93	81-110	Large diameter white pine, very tall. Spruce, red maple, aspen, white birch, balsam. Some lower pockets of spruce. Pockets of old aspen and paper birch, most dying out of the stand. Component of red pine and cedar.
39	6122 - Black Spruce	Poletimber Well	7.5	81	81-110	Lowland black spruce stand. Mainly black spruce pole size stand. Some decent size to the black spruce in spots, 10 inches and 5 merchantable sticks tall. Components of white pine, white birch, and some cedar. Tagalder, lab tea ground cover. Rousseau/Spot soils. 1999: stand 56
40	42290 - Natural Mixed Pine	Sawtimber Well	5.1	95	81-110	Narrow ridge of timber. Red pine, white pine and jack pine. Timber sale from the mid 1960's, removed jack pine. Areas thicker to red pine. Northern third of the stand is more jack pine. Soils are Rousseau - Rousseau/Spot.
41	6121 - Tamarack	Sapling Well	21.7	55	Unspecified	Primarily tamarack (1-2" dbh and 24' ht), with some spruce, occasional jack pine. Some small pole size trees along the edges of the stand. Mainly still sapling size stand.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	17.4	81	1-50	Lowland stand with slightly higher ground in areas. Higher ground contains more white pine with red maple and white birch. Lower areas are primarily black spruce with some tamarack, white pine and cedar. Some paper birch regeneration. Good cedar regeneration along old abandoned
43	42290 - Natural Mixed Pine	Sawtimber Well	20.1	95	81-110	Main ridge contains white pine with red pine and jack pine. Stand edges include more black spruce with white pine. Cut in th 1930's. Jack Pine removed in the mid-60's. Difficult access.
44	6122 - Black Spruce	Sapling Medium	105.0	55	Unspecified	Stunted spruce and tamarack; soils are Dawson/Greenwood/Loxley.
46	6122 - Black Spruce	Sapling Medium	61.6	55	Unspecified	Stunted spruce and tamarack. Sapling and pole size spruce with tamarack, small component of jack pine and white pine.
48	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	6.3	180	141-170	Nice large WP scattered throughout; PB overmature and dying out. (1999 comment: "miserable place to get to".) Ownership cards indicate timber trespass 1-55 and t. sale # 57-61 in this 40. Lupton/Tawas/Carbondale soils. 1999: stand 6
49	6120 - Lowland Cedar	Poletimber Well	24.8	90	81-110	Pretty poor quality stuff - wet; tagalder to 8'. Ownership cards indicate timber trespass 1-55 and t. sale #57-61 in this 40. Lupton/Tawas/Carbondale soils.
51	42220 - Natural Jack Pine	Poletimber Well	7.3	69	51-80	Jack pine varies in size as soil type/topography changes. Some jack pine diameters up to 14 inches. Shorter heights in spots. Some small patches of spruce. Stand edges of small diameter black spruce, 4-8 inches in diameter. Some white pine.
52	42220 - Natural Jack Pine	Poletimber Well	3.3	69	51-80	Jack pine varies in size as soil type/topography changes. Shorter heights in spots. Some jack pine diameters up to 14 inches. Some small patches of spruce. Stand edges of small diameter black spruce, 4-8 inches in diameter. Some white pine.
53	42220 - Natural Jack Pine	Poletimber Well	4.5	69	51-80	Jack pine varies in size as soil type/topography changes. Shorter heights in spots. Some small patches of spruce. Stand edges of small diameter black spruce, 4-8 inches in diameter. Some white pine.
55	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	32.5	85	81-110	Very north end of stand is more H6. Good balsam fir regeneration. Aspen is overmature, dead, dying. East side of the stand has more spruce, lower ground. Large diameter white pine. Difficult access, if manage the jack pine ridges to the east and south. Numerous wet areas and drainages to cross.
56	6120 - Lowland Cedar	Sawtimber Well	43.2	113	111-140	Some patches of cedar up to 18" dbh, but very little quality. Mainly cedar with some white pine and black spruce. No access, except by building winter roads across private property; numerous drainages. 1999: stand 22



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	42290 - Natural Mixed Pine	Sawtimber Well	13.4	97	51-80	Ridge of higher ground with some lower ground mixed in. Mainly large diameter white pine with smaller diameter black spruce. Lesser components of white birch and jack pine. Some cedar, mostly in the southern portion of the stand. Stand edges have small diameter spruce. Small drainage that runs N/S through the middle of the stand. Soils are Rousseau/Spot.
59	42290 - Natural Mixed Pine	Poletimber Medium	20.5	67	1-50	Stand is a mix of upland and lowland, jack pine and black spruce with white pine and red pine components. Higher ground is jack pine with spruce, lower ground is black spruce with jack pine. Average heights on mature jack pine is 4-5 sticks. Areas with a mix of ages of most spp. BA ranges from 50 -110 on average. Slightly higher ground than adjacent marsh/treed bog type. Rousseau/Spot soils.
60	6122 - Black Spruce	Sapling Medium	7.2	45	Unspecified	Spruce, tamarack and jack pine. Soils are Dawson/Greenwood/Loxley.
61	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	23.1	73	1-50	Stand has a lot of variability. A good percentage of the stand is small diameter, small pole and sapling size spruce and tamarack, 5-6 inches in diameter. Large diameter white pine. Component of cedar. Stand ranges from S4/Q4/Q5. Components of black spruce, tamarack, cedar, white pine, red pine. Mixed softwoods include: T,C,WP, RP. Tagalder in understory. Spot/Dawson and Rousseau/Spot soils. 1999: stand(s) 25, 26
63	42220 - Natural Jack Pine	Poletimber Well	6.7	69	81-110	Primarily jack pine with white pine and black spruce. Areas where the jack pine is larger diameter (L/P). Good heights on jack pine. Some mortality in the jack pine. Edges have small diameter black spruce. Similar to the connecting stand of jack pine on ridge, but slightly smaller, due to soil and topography change. Southern portion of the stand is wetter between stands 62 & 64.
65	6122 - Black Spruce	Sapling Medium	28.3	55	Unspecified	Stunted spruce and tamarack. A treed bog. Dawson/Greenwood/Loxley soils.
66	42220 - Natural Jack Pine	Sawtimber Well	36.1	69	111-140	Ridge of jack pine with a components of red pine, white pine and black spruce. A few clumps of white birch. Steep in spots, more gradual slope in others. Good amount of large diameter jack pine throughout. Some mortality in the jack pine. Black Spruce along stand edges. Southern stand edge has more merchantable spruce. Access is questionable, through private land from both east and west. Best access is from the west, across current portable bridge that is in place over the Murphy Creek. Knob at west end of stand contains quite a bit of red pine with white pine.
67	42290 - Natural Mixed Pine	Sawtimber Well	4.6	90	111-140	Continuing ridge of timber with more red and white pine than adjacent jack pine stand to the west. Jack pine and spruce were removed in the late 40's. Large diameter red pine and white pine. Aspen and jack pine in stand is mature. Mixed stand of pine, slightly more red pine than white pine. Harvest with adjacent stand. Components of birch, spruce and aspen.
68	6122 - Black Spruce	Sapling Medium	8.4	45	Unspecified	Some spruce and tamarack with some jack pine.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	42220 - Natural Jack Pine	Poletimber Well	65.7	69	81-110	Variable stand densities - from 50 BA along narrow marsh ground (with more black spruce present) to 120-140 BA along more upland interior ridges. Patch of red pine and white pine within center of stand and along road. Includes cutting from the late 1930's - lower ground and site index - smaller timber. Also, portion cut in early 1960's ( w/in section 13 - T. sale # 53-61) Tagalder and spruce in understory. Access to southern portions of the stand may be difficult, winter time cutting.
70	42390 - Mixed Non- Pine Upland Conifers	Poletimber Medium	4.1	55	51-80	Small stand against private. Contains both narrow ridge and lower ground. Will be difficult to access without private road access granted. Tamarack, cedar within. Tag alder in understory. Rousseau/Spot soils.
72	429 - Mixed Upland Conifers	Poletimber Medium	7.1	55	51-80	Small stand. Low ground and upland. Areas of open, bog type ground. Ridge on west side of the stand is best ground in the stand. Will be difficult to access. Tamarack, spruce, cedar within. Tag alder in understory. T. sale # 53-61. Rousseau/Spot soils.
74	6122 - Black Spruce	Sapling Medium	12.7	55	Unspecified	Stunted spruce, tamarack ( 16 - 30' ht) growing on bog ground.
75	6122 - Black Spruce	Sapling Medium	20.1	55	Unspecified	Stunted spruce, tamarack ( 16 - 30' ht) on bog ground. Some small pole timber spots. Northern and southern ends are more of an S3, while center of stand is fairly open.
76	6122 - Black Spruce	Poletimber Medium	10.5	72	51-80	Small patches of spruce (S5). Some white pine and tamarack within. Slightly higher ground with some red pine. Western portion of the stand is more open. Tagalder in understory in spots along with spruce. Soils are Dawson/Greenwood/Loxley.
77	6122 - Black Spruce	Sapling Well	5.6	55	Unspecified	Stunted spruce and tamarack. Primarily spruce. Dawson/Greenwood/Loxley soils.
78	6122 - Black Spruce	Poletimber Medium	45.7	72	1-50	Black spruce stand, small diameters. A few small ridges of red pine. Patches of S5, especially near stand 66. Some white pine and tamarack within. Many open areas of small diameter black spruce 4-6 inch, much still sapling size and 30+ ft tall. Tagalder in understory. Soils are a mix of Kinross/AuGres, Spot/Dawson and Dawson/Greenwood/Loxley.
80	6122 - Black Spruce	Sapling Medium	7.1	56	Unspecified	Spruce, tamarack.
81	6122 - Black Spruce	Sapling Medium	10.4	56	Unspecified	Spruce, tamarack. Lowland bog ground
82	42290 - Natural Mixed Pine	Sawtimber Well	19.6	97	111-140	Nice stand of pine on narrow ridges. Large diameter white pine and red pine, small component of white birch and small diameter spruce along edges. Difficult access. Rousseau/Spot soils.
83	6122 - Black Spruce	Sapling Poor	9.5	55	Unspecified	Spruce, tamarack.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
84	6122 - Black Spruce	Poletimber Well	54.2	81	51-80	Cut in the mid - late 1930's. Mixed stand. Jack pine present on higher ground. Spruce within low pockets. Open areas of small diameter spruce (S3). Access difficult without a good winter. Possible better access if acquired through private land to east. Soils are Spot/Dawson.
85	42200 - Natural White Pine	Sawtimber Well	17.6	97	111-140	Questionable, if any, access to this stand; numerous drainages within. Soils are Kinross/AuGres.
86	4115 - Y.Birch, Hemlock NH	Sawtimber Well	19.1	90	51-80	Stand heavily cutover in 1980-81 (T. sale #55-79A); Stand is a mix of red maple and sugar maple with components of beech, hemlock, yellow birch, white pine and white spruce. Regeneration averages 2-3 inches in diameter, 35+ ft tall. Did get lots of maple reproduction. Good yellow birch regeneration throughout. Beech component in understory. Solid M3 understory throughout the stand. Large residual maple heavy with defects; beech with beech scale. Paquin/Finch soils.
89	6122 - Black Spruce	Sapling Medium	17.9	55	Unspecified	black spruce and tamarack on bog type ground
90	6122 - Black Spruce	Sapling Medium	12.8	55	Unspecified	Spruce and tamarack on bog ground
91	6122 - Black Spruce	Poletimber Well	42.2	73	51-80	Lowland black spruce stand with some red pine and white pine scattered in. Mainly a pole size stand. Some areas with smaller diameters. Will be a difficult spot to access - extensive winter roads will be needed. Some R, W scattered within. Spot/Dawson soils. 1999: stand 42,44
92	6122 - Black Spruce	Sapling Medium	5.3	56	Unspecified	
93	42200 - Natural White Pine	Sawtimber Well	35.1	97	81-110	Extremely tough stand to access; scenic spot along Murphy Creek, though. Intermittent drainage within. Southern portion of the stand is a ridge of pine which overlooks Murphy Creek. Merged stand 95 (2009 YOE) in with this stand, all white pine, larger diameters. Spot/Dawson soils.
96	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	74.9	59	51-80	Lowland mixed stand. Spruce, cedar, white pine, red maple. Some balsam and white birch. Some open, Q4 areas. Some areas of older timber. White pine within the stand, mainly along edges. Ownership records indicate t. sale(s) #21-54, #27-51, #29-78? Records also show that the eastern end was cut in the 1930's. Access is very difficult, winter road work. Merged stand 103 (2009 YOE) in with this stand. Spot/Dawson soils.
97	42290 - Natural Mixed Pine	Poletimber Medium	30.1	79	51-80	Low ridges with better jack pine; otherwise, the rest is a mix of jack pine, spruce and white pine. Difficult access, due to low, wet ground - no roads. Soils are Spot/Dawson and Rousseau/Spot.
98	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	20.8	180	51-80	Kinross/AuGres soils. Some cutting in the 1930's.

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Newberry Mgt. Unit

Report 7 – Forested Stands

Compartment: 80  
Year of Entry: 2019



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	42200 - Natural White Pine	Sawtimber Well	20.2	100	51-80	White pine with spruce, jack pine and cedar. East half of the stand is wetter along the edge of the lowland marsh type. Some low quality. Kinross/AuGres soils.
104	42200 - Natural White Pine	Sawtimber Well	10.9	97	81-110	Extremely tough stand to access; scenic spot along Murphy Creek, though. White pine, larger diameters. Spot/Dawson soils.
105	6122 - Black Spruce	Sapling Well	7.5	34	Immature	Small spruce on "bog ground".





Stand	Cover Type	Acres	Managed Site	General Comments:
7	622 - Lowland Shrub	12.3	No	Tagalder with some spruce. Aquent and histosols, in addition to Lupton/Tawas/Carbondale soils.
16	6229 - Mixed lowland shrub	18.1	No	Some timber within the stand; stunted and wet ground.
25	6229 - Mixed lowland shrub	19.3	No	Some flooded timber at north end due to beaver activity. Soils are Aquent and histosols.
27	6229 - Mixed lowland shrub	9.9	No	Some occasional timber on edges (C,WP,S); ground cover of tagalder, grasses, iris noted. Beaver activity
37	6229 - Mixed lowland shrub	6.8	No	N. Branch Murphy Creek corridor. Bridge in need of repair. Tagalder with some dead cedar snags - cedar fringe on stand edges.
45	6239 - Mixed Emergent Wetland	128.0	No	
50	6229 - Mixed lowland shrub	8.8	No	Some black ash and dogwood.
54	6239 - Mixed Emergent Wetland	6.2	No	
57	622 - Lowland Shrub	3.2	No	Some tamarack w/tag alder.
62	6224 - Treed Bog	7.3	No	Spruce, WP and tamarack. Dawson/Greenwood/Loxley soils.
64	623 - Emergent Wetland	9.2	No	
73	6239 - Mixed Emergent Wetland	37.6	No	Quite a bit of spruce and tamarack on edges. Intermittent stream within. Overall the stand is open. North edge is more of an S3/S4.
79	6239 - Mixed Emergent Wetland	36.1	No	
94	6229 - Mixed lowland shrub	95.2	No	Some large spruce and white pine scattered through this stand - creek buffer. Soils are Aquent and histosols. Buffer stand for Murphy Creek
101	6239 - Mixed Emergent Wetland	40.8	No	Some flooded timber included. Aquent and histosols. 1999: stand 92. Beaver activity.
106	6229 - Mixed lowland shrub	3.2	No	Lowland brush, tag alder. Buffer stand for North Branch Murphy Creek.