



# Compartment Review Presentation

## Newberry Forest Management Unit

Compartment 42081

Entry Year 2018

Acreage: 3,443

County Luce

Management Area: Tahquamenon River Patterned Fen

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**Revision Date:** 2016-08-25

**Stand Examiner:** Jason Tokar

### Legal Description:

T47N R09W Section(s) 14, 15, 22-27, 34, 35

### Identified Planning Goals:

To maintain and/or enhance the health and quality of the forest ecosystem while providing for diversity of forest cover types, wildlife, and recreational needs. Over ¾ of the compartment is lowland cover types; lowland brush, marsh and treed bog. The remainder is upland jack pine, red pine and white pine located on narrow ridges. Jack pine management will increase in accessible stands. Objective will be to maintain the integrity of this forest complex

### Soil and topography:

Rousseau sands along ridges with marshes and bogs of Dawson-Greenwood-Loxley peat and Carbondale-Markey muck.

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

The compartment is bordered by a mixture of State and an private land on all sides. Development in the area is low/medium due to the large amount of State in and around the compartment and is limited to small camps. There are several private camps along the Murphy Creek Road, Buckhaven Trail and Skyline Road (Co Rd 510). Land use in the vicinity includes hunting, ORV riding and sight seeing.

### Unique Natural Features:

MNFI does not list any occurrences in the compartment. Potential is there for many flora and fauna species including moose, spruce grouse, blacked-back woodpecker, wood turtle, merlin, eagle, osprey, and great blue heron rookery. Potential also for ebony boghaunter, incurvate emerald, frigga fritillary, and freija fritillary in bogs, moor rush, sweet coltsfoot, Wiegand's sedge, English sundew, round-leaved orchis, black crowberry, yellow pitcher plant, and panicked screwstem, in open wetlands.

### Archeological, Historical, and Cultural Features:

None listed with the Bureau of History

### Special Management Designations or Considerations:

### Watershed and Fisheries Considerations:

Fisheries Values: Moderate to Good

Fisheries Concerns: Murphy and Gimlet creeks are located in this compartment. Neither stream is a designated trout stream. Standard BMP's should be applied in stands where treatments are occurring.

### Wildlife Habitat Considerations:

Compartment 81 lies in central Luce county in the Grand Marais Sandy End Moraine and Outwash ecological sub-section. The compartment lies in the Tahquamenon River Patterned Fens Management Area and has Blackburnian warbler, black bear, moose, red crossbill, snowshoe hare and spruce grouse as featured species listed. The compartment is dominated by treed bogs with interconnecting pine ridges. Stand diversity is generally low as is overall diversity of the compartment. Pine ridges, streams and drainages provide excellent travel corridors. A small part of the eastern edge of the compartment lies within the Hulbert deer yard.

Harvests along pine ridges will strive to maintain a small amount of mature trees, as well as some understory species to improve structural diversity, act as food sources and improve use as wildlife corridors. The overall integrity and hydrology of the compartment will be maintained by careful harvesting techniques to not impair the lowland areas. Wildlife species potentially using the compartment include black bear, white-tailed deer, black bear, bobcat, coyote, gray wolf, moose, otter, and mink.

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

Surface sediments consist of peat and muck and lacustrine sand and gravel. There is insufficient data to determine the glacial drift thickness (>50 feet). The Ordovician Trenton and Black River formations subcrop below the glacial drift. The Trenton and Black River have been quarried for limestone/dolomite elsewhere in the UP. These formations may be too deeply buried here to be of economic significance. No sand/gravel pits are located in the area and potential is limited. This area is dominated by wetlands. There is no economic oil and gas production in the UP and there is no known metallic mineral potential in this area.

## **Vehicle Access:**

For access to the compartment from Newberry, go north on M-123 to either the Skyline Road (Co Rd 510) or the Murphy Creek Road. Both roads provide access through the compartment. Buckhaven trail leads south into the interior of the compartment from Murphy Creek Road. A few narrow, poor sand interior roads on ridges provide additional vehicle access. The Skyline Road also provides year-round access to corporate and private lands which connect with the Charcoal Grade to the east.

## **Survey Needs:**

Property line verification and/or corner establishment in SE1/4 of Section 23; Corner establishment in NE1/4 of Section 35;

## **Recreational Facilities and Opportunities:**

There are no recreational facilities within the compartment. Opportunities include hunting and blueberry picking.

## **Fire Protection:**

Difficult interior access, due to narrow ridges within marsh/bogs. Will need to limit equipment used, due to the need to protect hydrology. Most ridges are Jack Pine fuel type which could result in large fires. Lowland areas may not provide natural barriers because of grass fuel types. Wildland urban interface concerns exist because of private ownerships with cabins. Areas of this compartment may lend itself to modified suppression strategies, such as containment and monitoring.

## **Additional Compartment Information:**

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

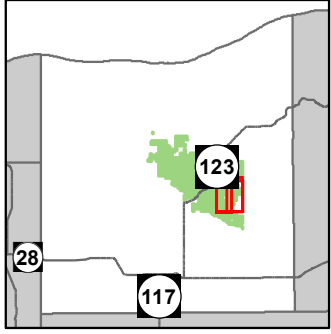
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

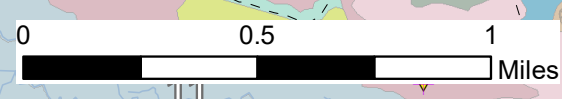
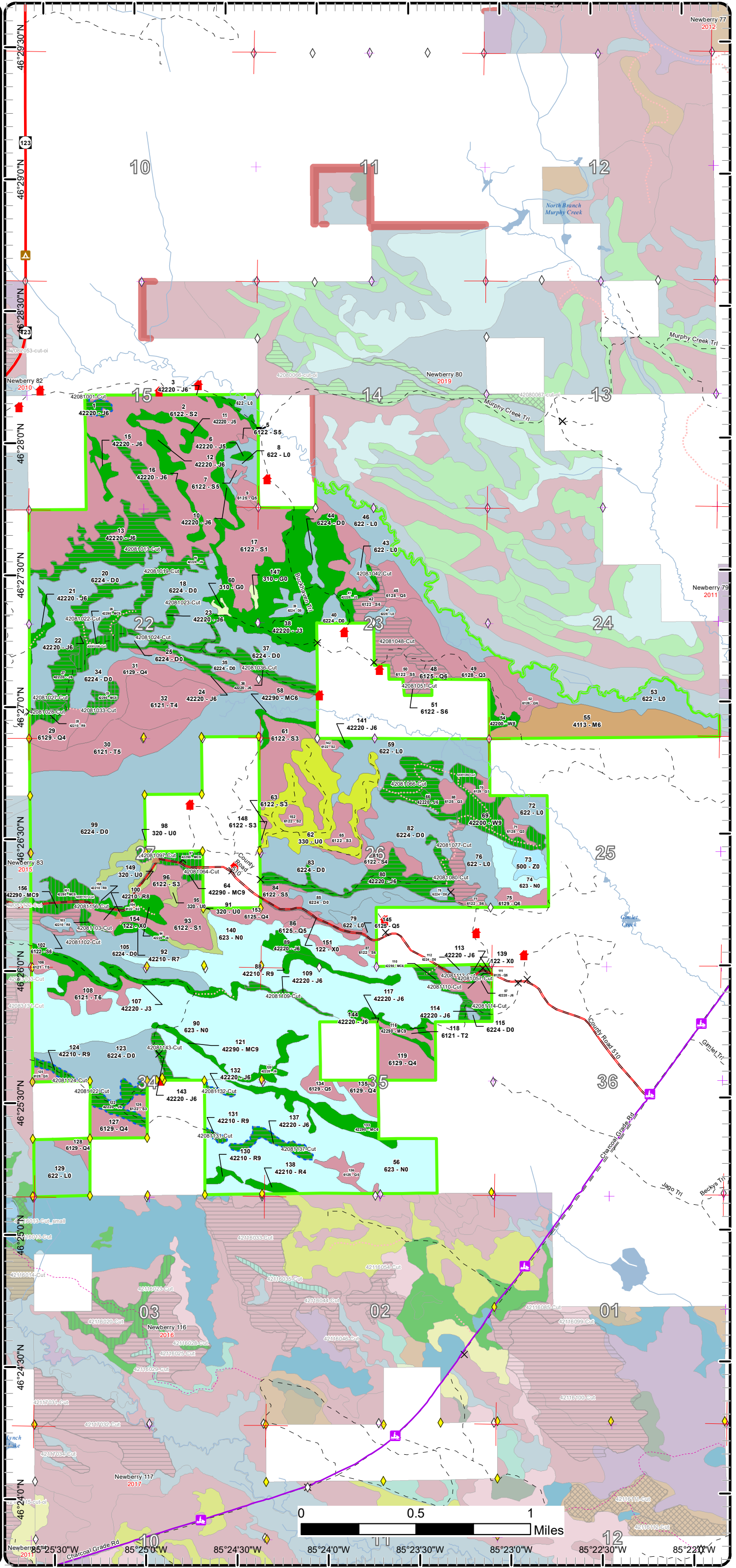
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 81  
 T47N R09W Sec. 14,15,22-27,34,35  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Tahquamenon River  
 Patterned Fens  
 YOE: 2018  
 Acres: 3,443 GIS Calculated  
 Examiner: Jason Tokar  
 Map Revised: 10/27/2016  
 Map Phase: Post-Review



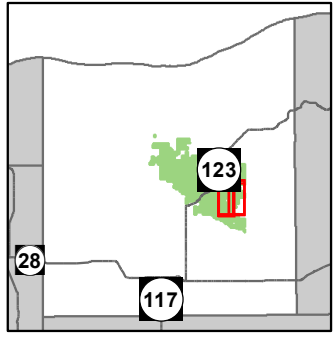
- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- X Gate
- ▲ Berms
- Bridges
- Cabin
- Snowmobile Trails
- Designated Snowmobile Trails
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- - - Poor Dirt Roads
- - - Closed Roads
- Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



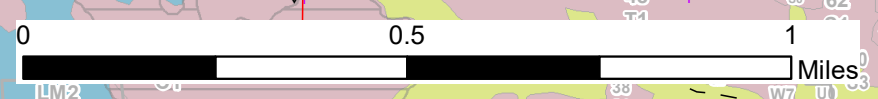
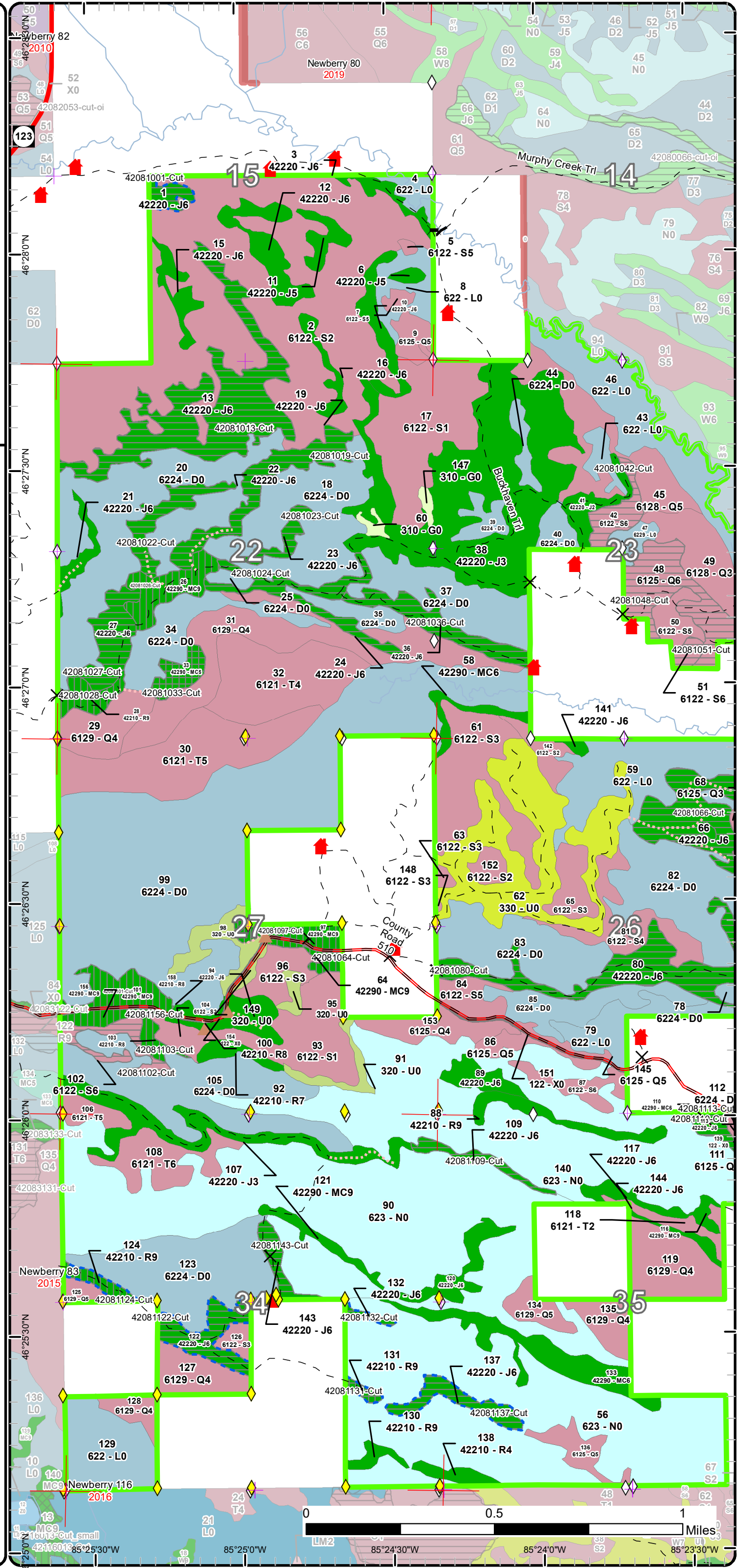
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 85°25'30"W 85°25'0"W 85°24'30"W 85°24'0"W 85°23'30"W 85°23'0"W 85°22'30"W

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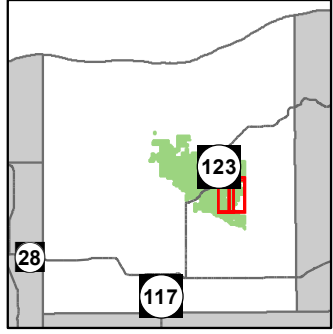
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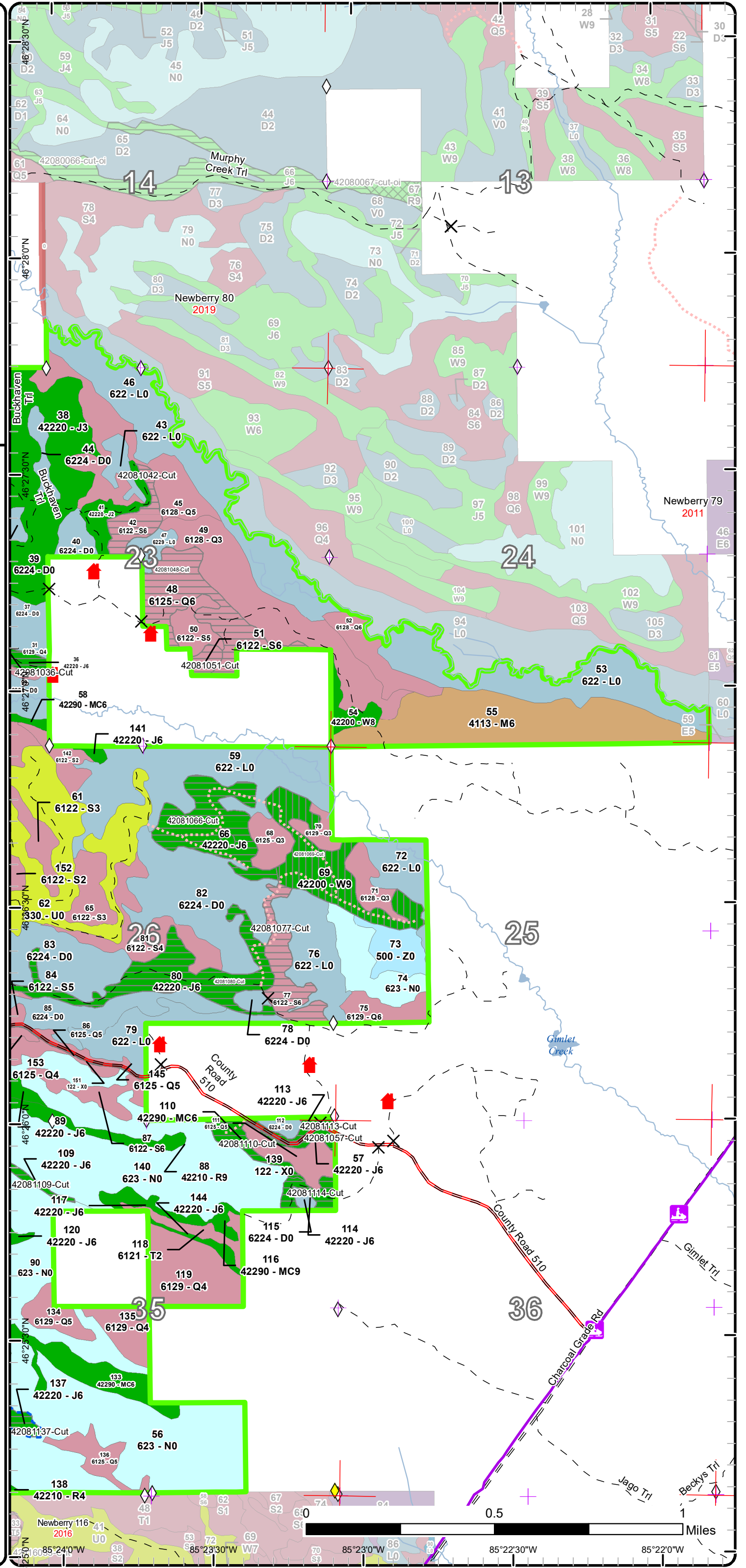
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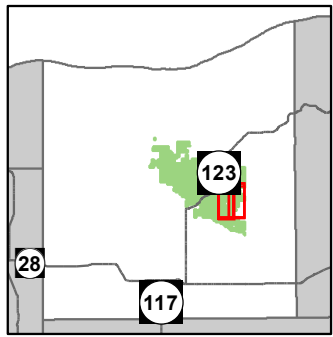


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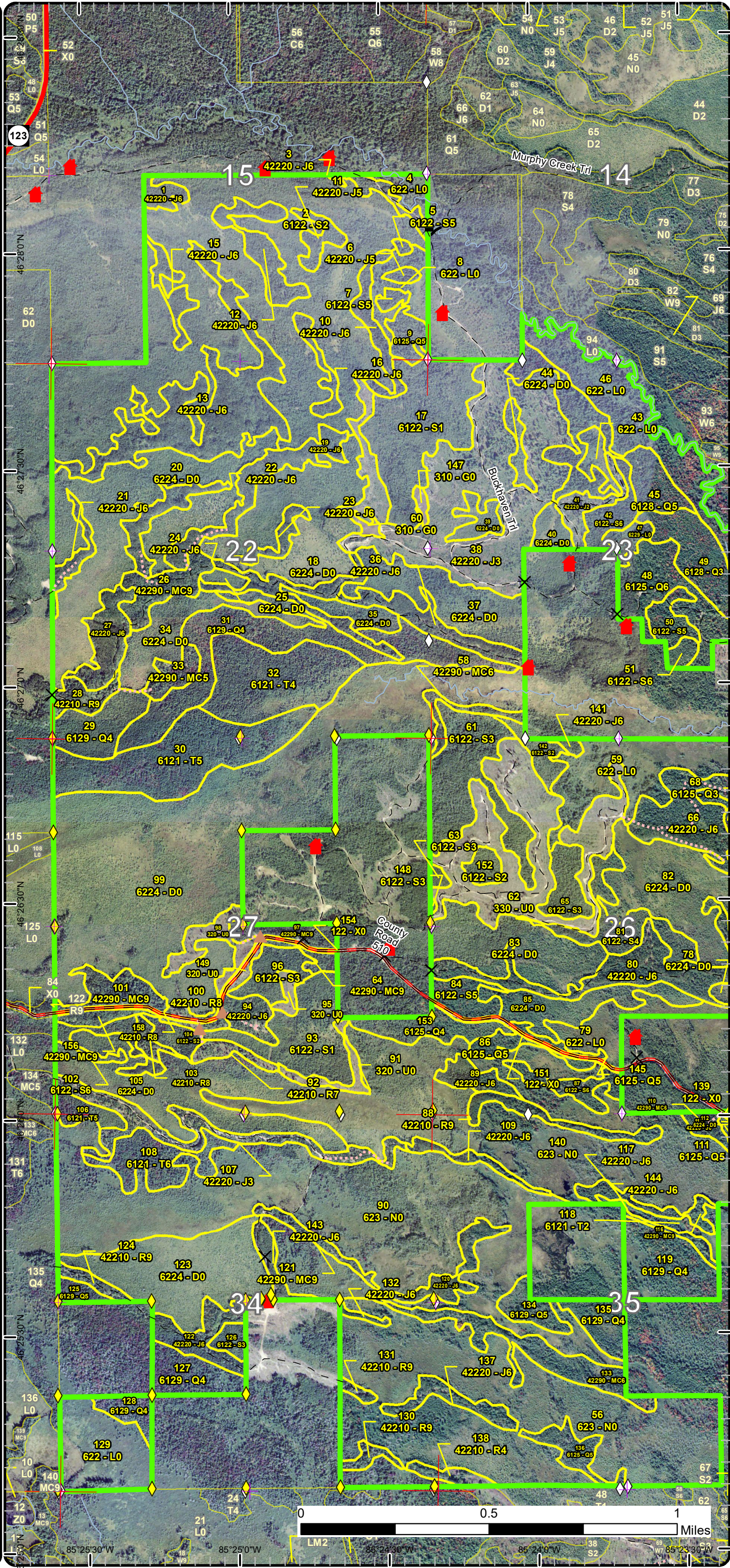


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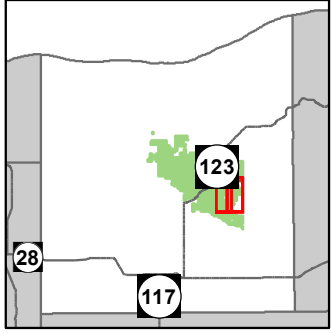


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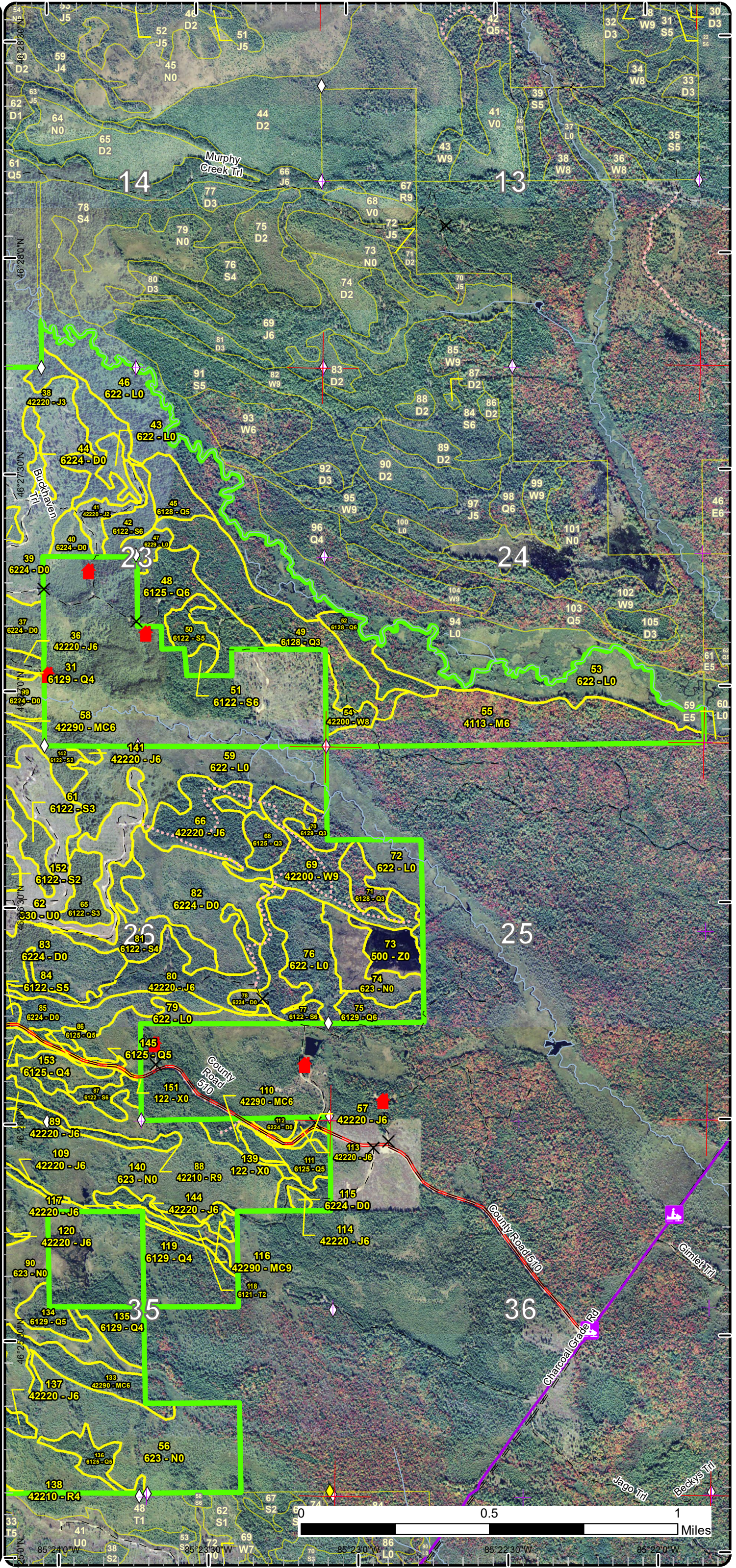


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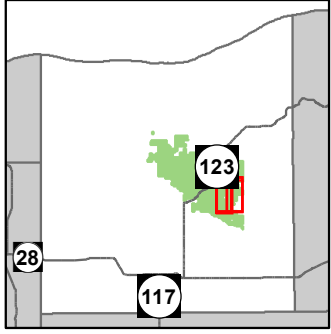


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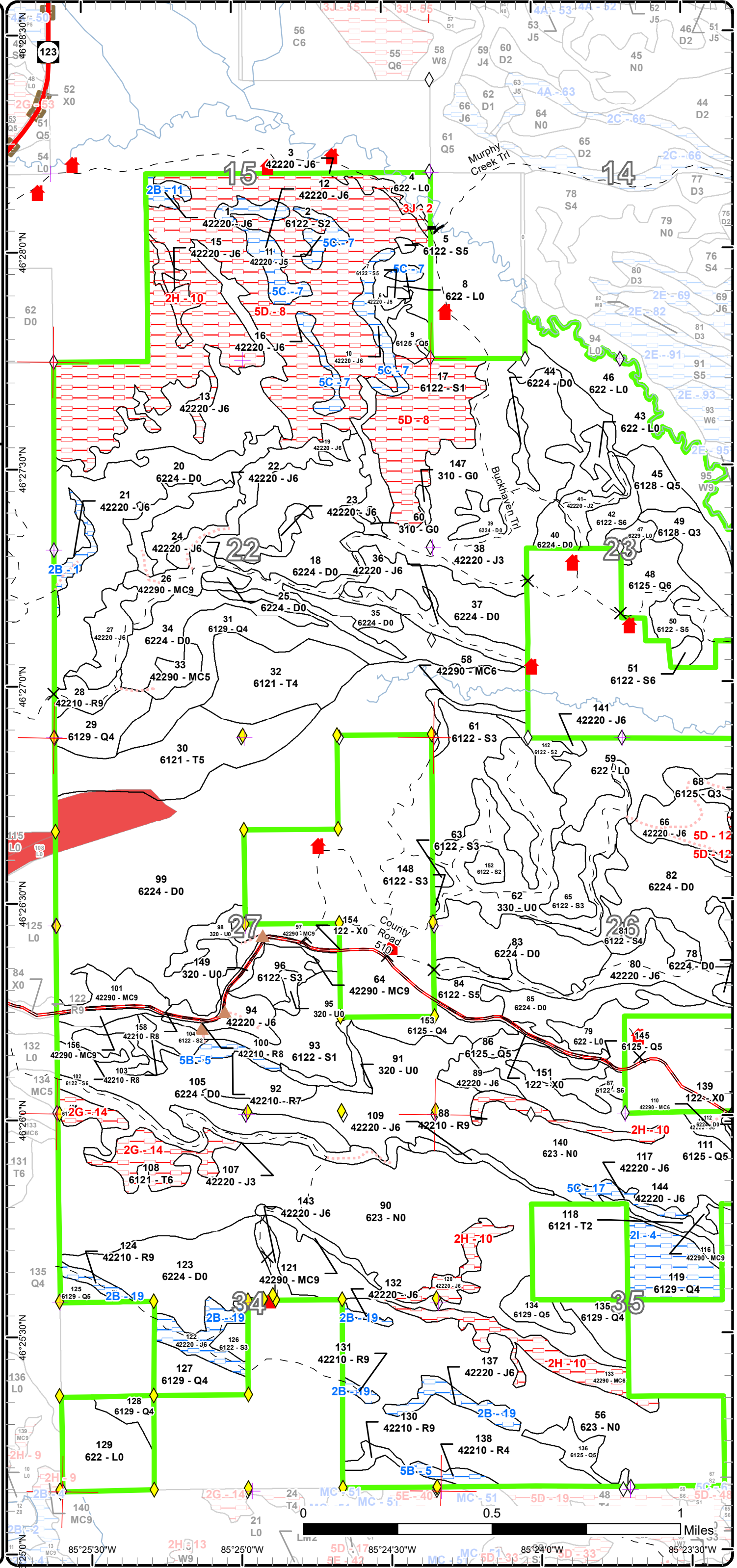


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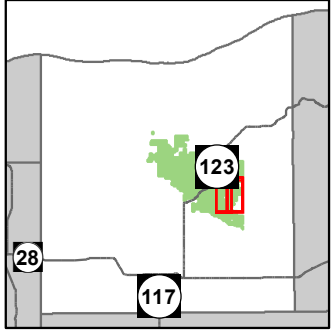
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2B: Unknown if access through adjacent landowner(s) is possible
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional 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)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- State Heritage Routes-Scenic (MDOT Designation)



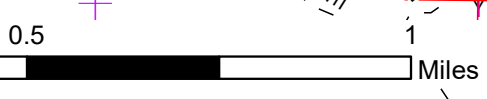
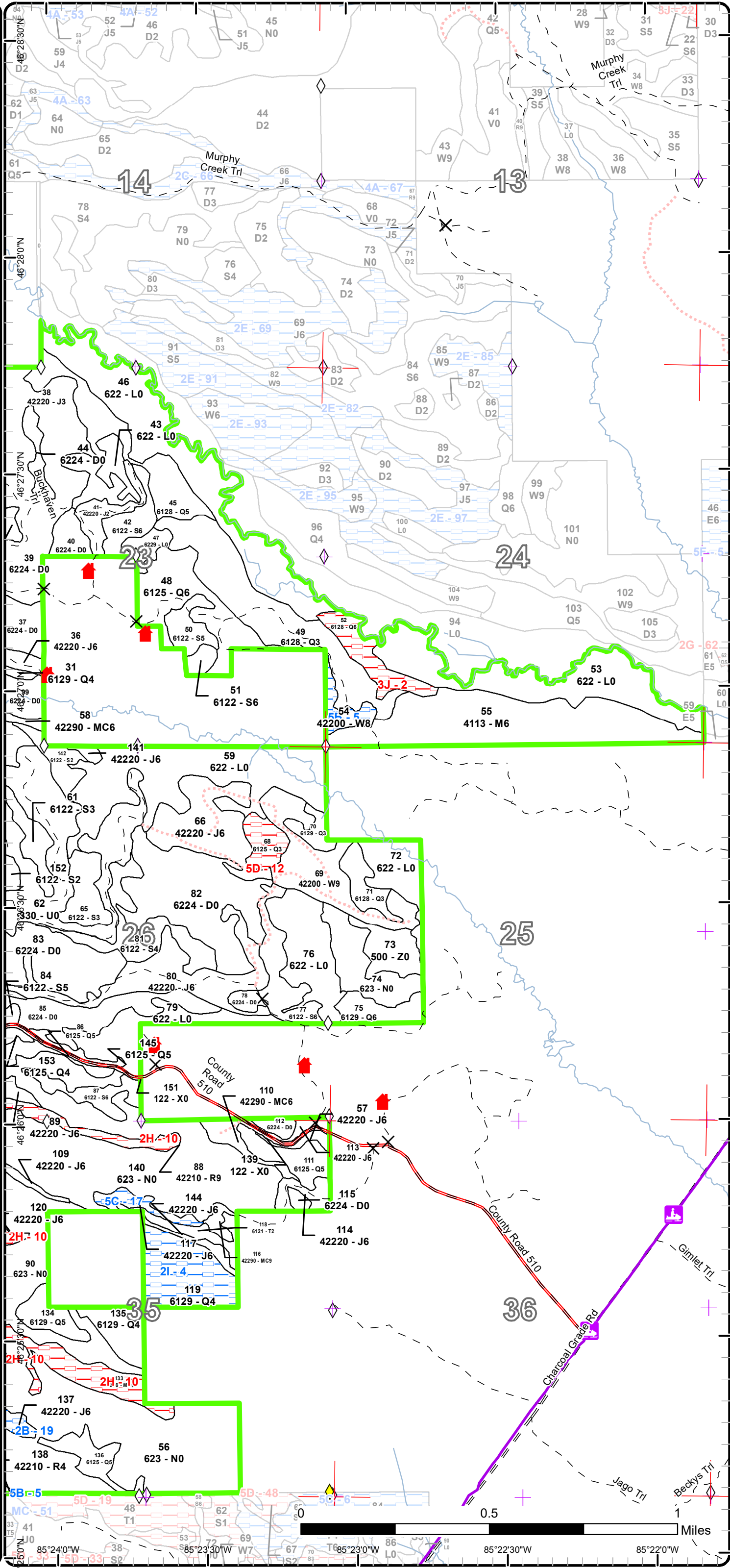


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- 5D: Unproductive Forest Land
- Stand Boundaries



85°24'0"W 85°23'30"W 85°23'0"W 85°22'30"W 85°22'0"W

Report 1 – Total Acres by Cover Type and Age Class



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
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	0	120	35	0	0	31	83	110	115	0	0	0	0	0	0	0	0	493
Low-Density Trees	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Lowland Conifers	0	0	0	0	59	74	0	72	64	13	0	0	0	0	0	0	0	66	348
Lowland Shrub	291	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	291
Lowland Spruce/Fir	0	0	0	0	0	0	0	401	69	13	0	0	0	0	0	0	0	0	483
Marsh	621	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	621
Natural Mixed Pines	0	0	0	0	0	0	7	6	6	0	0	26	0	0	0	0	0	48	93
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	65
Red Pine	0	0	0	0	0	0	0	0	0	2	11	0	5	0	10	0	0	17	45
Tamarack	0	0	0	0	0	0	61	0	0	0	26	0	0	0	0	0	0	43	130
Treed Bog	714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	714
Upland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	30	37
<b>Total</b>	<b>1743</b>	<b>0</b>	<b>120</b>	<b>35</b>	<b>59</b>	<b>74</b>	<b>99</b>	<b>562</b>	<b>249</b>	<b>143</b>	<b>37</b>	<b>26</b>	<b>5</b>	<b>7</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>269</b>	<b>3437</b>



## Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 81

Total Compartment Acres: 3,443

Commercial Harvest - 382  
 Harvests with Site Condition - 36  
 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	248	0	0	0	0	0	0	0	0	248
Lowland Conifers	30	0	0	0	0	0	0	0	0	30
Lowland Spruce/Fir	37	0	0	0	0	0	0	0	0	37
Natural Mixed Pines	6	0	0	7	43	0	0	0	0	56
Red Pine	0	0	0	2	15	0	0	0	0	17
White Pine	0	0	0	0	30	0	0	0	0	30
<b>Total</b>	<b>321</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>419</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	419	0	0	0	0	0	0	0	0	419
Next Step	0	110	0	174	0	0	440	0	0	724
<b>Total</b>	<b>419</b>	<b>110</b>	<b>0</b>	<b>174</b>	<b>0</b>	<b>0</b>	<b>440</b>	<b>0</b>	<b>0</b>	<b>1142</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	42081001-Cut	4.6	42220 - Natural Jack Pine	Poletimber Well	79	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Clearcut. No retention due to small acreage. Jack pine and spruce can be retained in sale boundary.

Specs:

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

Treatments:

Acceptable Jack pine with black spruce

Regen:

Other In areas where there are no understory clumps to be retained attempt to leave an occasional tree near the top of the ridge.

Comment:

Proposed Start Date: 10/01/2017

13	42081013-Cut	57.4	42220 - Natural Jack Pine	Poletimber Well	81	111-140	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 reserves. Retention to be in patches, not to exceed 5% of the stand area. Retention to be in areas of mixed spruce and jack pine.

Specs: Some areas within the stand may not be harvestable.

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

Treatments:

Acceptable Jack pine with black spruce and red pine.

Regen:

Other In areas where there are no understory clumps to be retained, or no other retention nearby, attempt to leave an occasional tree near the top of the ridge.

Proposed Start Date: 10/01/2017

19	42081019-Cut	19.2	42220 - Natural Jack Pine	Poletimber Well	81	111-140	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. Narrow winding stand. Some jack pine and spruce will be left along stand edges due to slopes and adjacent lowland. A

Specs: few steep areas (15 - 35% slope) mainly in southern end, providing retention. Regeneration should come in naturally with good slash dispersal. Portions of the stand could be scarified but access and small acreage, may not be efficient. Possibly direct seed or hand plant.

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

Treatments:

Acceptable Jack pine with black spruce and red pine.

Regen:

Other In areas where there are no understory clumps to be retained, or no other retention nearby, attempt to leave an occasional tree near the top of the ridge.

Proposed Start Date: 10/01/2017

22	42081022-Cut	10.5	42220 - Natural Jack Pine	Poletimber Well	76	111-140	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. Narrow and small acreage stand. Some residual trees will be left on steep slopes as well as along the lowland edges.

Specs: Regeneration should come in naturally with good slash dispersal; site will be too steep to scarify - will either need to direct seed or hand plant if unsuccessful.

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

Treatments:

Acceptable Jack pine with black spruce and red pine.

Regen:

Other In areas where there are no understory clumps to be retained, or no other retention nearby, attempt to leave an occasional tree near the top of the ridge.

Proposed Start Date: 10/01/2017



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
23	42081023-Cut	5.4	42220 - Natural Jack Pine	Poletimber Well	85	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut. No retention, small acreage stand. Access possible from south end via small strip of trees. Will have to be skidded to stand 24.

Specs:

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

Treatments:

Acceptable jack pine with black spruce, red pine and white pine

Regen:

Other If there are no understory clumps to be retained, attempt to leave an occasional tree near the top of the ridge.

Comment:

Proposed Start Date: 10/01/2017

24	42081024-Cut	15.1	42220 - Natural Jack Pine	Poletimber Well	58	111-140	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. Narrow stand and small acreage. Jack pine and black spruce will be left along stand edges and in steep areas.

Specs: Possible direct seed following harvest.

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

Treatments:

Acceptable Jack pine with black spruce and red pine

Regen:

Other In areas where there are no understory clumps to be retained, or no other retention nearby, attempt to leave an occasional tree near the top of the ridge.

Comment:

Proposed Start Date: 10/01/2017

26	42081026-Cut	13.8	42290 - Natural Mixed Pine	Sawtimber Well	109	81-110	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Shelterwood. Residual BA of 30-40. Remove all jack pine, aspen, spruce. Mark lower quality red pine and white pine for removal. Areas of the

Specs: stand will have slopes too steep to harvest, making good retention areas.

Next Step ; Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red pine with aspen, jack pine and black spruce

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

27	42081027-Cut	15.2	42220 - Natural Jack Pine	Poletimber Well	73	111-140	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. Small acreage, narrow stand. Areas of steep slopes will not be completely harvested, providing retention. Some jack

Specs: pine can be retained in the red line too.

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

Treatments:

Acceptable Jack pine with black spruce, red pine

Regen:

Other In areas where there are no understory clumps to be retained, or no other retention nearby, attempt to leave an occasional tree near the top of the ridge.

Comment:

Normal regeneration method of scarification will not be possible here; look to either direct seed, or accomplish enough soil disturbance by harvesting operations, to achieve natural regeneration.

Proposed Start Date: 10/01/2017



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
28	42081028-Cut	7.5	42210 - Natural Red Pine	Sawtimber Well	111	81-110	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary

**Habitat Cut: No Site Condition:**

Prescription Shelterwood with retention. Residual BA of 30-40. Mark red pine and white pine for residual. Remove all aspen, black spruce jack pine and  
Specs: misc species. Retention will be in areas of steep slopes. When marking, will have to keep windthrow factor in mind. Treat stand only if adjacent stands are treated.

Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

33	42081033-Cut	7.2	42290 - Natural Mixed Pine	Poletimber Medium	56	51-80	Harvest	Seed Tree	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition:**

Prescription Seed tree. Small acreage, no retention needed. Cut all jack pine, white pine, spruce. Leave any white birch and all red pine 8 inches in  
Specs: diameter and less, as residual seed trees. Leave some white pine in the sale boundary.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Red pine with jack pine, white pine, birch and spruce

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

36	42081036-Cut	15.0	42220 - Natural Jack Pine	Poletimber Well	74	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. Small acreage, narrow stand. Edges will have some jack pine and black spruce left, as well as on some steep slopes.  
Specs: Wood will have to be skidded out to stand 24. No place for a truck turnaround. Leave understory conifer clumps along the ridge for travel corridor for bear,

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

Treatments:

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

Regen:

Other

Comment: In areas where there are no understory clumps to be retained, or no other retention nearby, attempt to leave an occasional tree near the top of the ridge.

Proposed Start Date: 10/01/2017

42	42081042-Cut	9.4	6122 - Black Spruce	Poletimber Well	84	81-110	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.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce with mixed lowland conifer

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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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
48 42081048-Cut	30.0	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	63	81-110	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with retention. Retention to be in patches, no more than 5% of stand acreage. Leave some large diameter white pine in the sale boundary.  
Specs:

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

Acceptable Mixed lowland conifers with deciduous species  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

51 42081051-Cut	3.2	6122 - Black Spruce	Poletimber Well	87	111-140	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.  
Specs:

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

Acceptable black spruce with mixed lowland conifers  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

57 42081057-Cut	2.1	42220 - Natural Jack Pine	Poletimber Well	71	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut. No retention due to small acreage. Spruce and jack pine can be left in sale boundary.  
Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Jack pine with black spruce  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

64 42081064-Cut	3.7	42290 - Natural Mixed Pine	Sawtimber Well	100	81-110	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Shelterwood with retention. Remove all jack pine, aspen and spruce. Retain 30-40 BA of healthy red pine and white pine as seed source.  
Specs:

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Red pine with jack pine, white pine, aspen, spruce and maple  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017



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
66	42081066-Cut	27.7	42220 - Natural Jack Pine	Poletimber Well	67	111-140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

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

Prescription Clearcut with retention. Retention in patches, not to exceed 5% of stand area. Concentrate retention in areas of mix of spruce and jack pine.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Jack pine with spruce, red pine and white pine

Regen:OtherComment:

Proposed Start Date: 10/01/2017

69	42081069-Cut	29.9	42200 - Natural White Pine	Sawtimber Well	96	81-110	Harvest	Shelterwood with Retention	4220 - Natural White Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Shelterwood with retention. Residual BA of 30-40. Mark white pine and red pine as residual. Remove white pine and red pine with decline and

Specs: dead tops. Remove spruce, maple, and misc species. Harvest stand while in the area harvesting the jack pine stands (access through private).

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable White pine with red pine and mixed upland deciduous species

Regen:OtherComment:

Proposed Start Date: 10/01/2017

77	42081077-Cut	15.4	6122 - Black Spruce	Poletimber Well	71	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut with retention. Small patch retention. Harvest while access through private is gained to manage the jack pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce with mixed lowland conifers

Regen:OtherComment:

Proposed Start Date: 10/01/2017

80	42081080-Cut	36.1	42220 - Natural Jack Pine	Poletimber Well	67	111-140	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. Narrow stand. Retain a couple 1/2 acre patches for retention in the wider portions of the stand. Leave jack pine, red

Specs: pine and spruce in the boundary line. Access through private.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)

Treatments:

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

Regen:

Other In areas where there are no understory clumps to be retained, or no other retention nearby, attempt to leave an occasional tree near the top of the ridge.

Comment:

Proposed Start Date: 10/01/2017





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
97	42081097-Cut	8.8	42290 - Natural Mixed Pine	Sawtimber Well	100	81-110	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Shelterwood with retention. Remove all jack pine, aspen and spruce. Retain 30-40 BA of healthy red pine and white pine as seed source. Very west end of stand may be too wet to treat.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Red Pine with jack pine, white pine, aspen, spruce and maple

Other Comment:

Proposed Start Date: 10/01/2017

101	42081101-Cut	11.7	42290 - Natural Mixed Pine	Sawtimber Well	96	51-80	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Shelterwood with retention. Residual BA of 40. Remove all aspen and jack pine and any maple. retain all oak. Some slopes will not be harvested due to steepness, which will provide retention areas. Landing area on north side of the road.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Red pine with maple, aspen, white pine and spruce

Other Comment: Skid trails will have to be carefully laid out due to slopes.

Proposed Start Date: 10/01/2017

102	42081102-Cut	9.3	6122 - Black Spruce	Poletimber Well	78	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut. Northern portion of the stand can be harvested if access is found to the stand. Too Steep from the north. Possibly access via old road into stand 92? Would have to be skidded out to stand 92.

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

Acceptable Regen: Black spruce with mixed lowland conifers

Other Comment:

Proposed Start Date: 10/01/2017

103	42081103-Cut	3.6	42210 - Natural Red Pine	Sawtimber Medium	96	51-80	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Shelterwood with retention. Residual BA of 30-40. Access would have to be from the east through stand 92, skid all wood to stand 92. Remove all spruce and misc species.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Red pine with white pine and spruce

Other Comment:

Proposed Start Date: 10/01/2017



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
109	42081109-Cut	5.4	42220 - Natural Jack Pine	Poletimber Well	83	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

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

Prescription Clearcut. No retention, small narrow ridge. Edge will have spruce and jack pine left along lowland. Access from the west, stand 107. Plan to  
Specs: skid wood out to stand 107.

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

Acceptable Jack pine with black spruce  
Regen:

Other In areas where there are no understory clumps to be retained, attempt to leave an occasional tree near the top of the ridge.  
Comment:

Proposed Start Date: 10/01/2017

110	42081110-Cut	5.8	42290 - Natural Mixed Pine	Poletimber Well	72	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut. No retention due to small acreage and narrow stand. Can leave some spruce and jack pine in sale boundary line. Access via old  
Specs: roadbed from skyline road. Possibly better to skid wood out to skyline road. Winter harvest due to eastern portion of the stand being lower.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Jack pine with black spruce and red pine  
Regen:

Other In areas where there are no understory clumps to be retained, attempt to leave an occasional tree near the top of the ridge.  
Comment:

Proposed Start Date: 10/01/2017

113	42081113-Cut	2.7	42220 - Natural Jack Pine	Poletimber Well	71	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut. No retention due to small acreage. Spruce and jack pine can be left in sale boundary.  
Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable jack pine with black spuce  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

114	42081114-Cut	5.6	42220 - Natural Jack Pine	Poletimber Well	58	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut. No retention, small acreage stand. Possibly leave 1 red pine or white pine per acre where present. Spruce can be left in the boundary  
Specs: trees.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Jack pine with black spruce and red pine  
Regen:

Other In areas where there are no understory clumps to be retained, attempt to leave an occasional tree near the top of the ridge.  
Comment:

Proposed Start Date: 10/01/2017



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
122	42081122-Cut	14.5	42220 - Natural Jack Pine	Poletimber Well	78	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**                      **Site Condition: Unknown Access**

Prescription Clearcut. Small acreage, narrow stand. No retention. Leave a few red pine interior. Spruce and jack pine can be left in the sale boundary.  
Specs:

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

Acceptable Jack pine with red pine, spruce and aspen.  
Regen:

Other In areas where there are no understory clumps to be retained, attempt to leave an occasional tree near the top of the ridge.  
Comment:

Proposed Start Date: 10/01/2017

124	42081124-Cut	4.2	42210 - Natural Red Pine	Sawtimber Well	96	81-110	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition: Unknown Access**

Prescription Shelterwood with retention. Residual BA of 30-40. Remove jack pine and some red pine. Remove all aspen and maple. Areas with steep slopes will not be harvested.  
Specs:

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

Acceptable Red Pine with jack pine, spruce and mixed deciduous species  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

131	42081131-Cut	2.0	42210 - Natural Red Pine	Sawtimber Well	86	51-80	Harvest	Seed Tree with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition: Unknown Access**

Prescription Seed tree with retention. Retain Red pine, residual BA of 30. Remove all other species. Mark healthy red pine to leave.  
Specs:

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Red pine with a component of all species present.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

132	42081132-Cut	1.6	42220 - Natural Jack Pine	Poletimber Well	78	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition: Unknown Access**

Prescription Clearcut. Small acreage, no retention.  
Specs:

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

Acceptable Jack pine with black spruce and red pine  
Regen:

Other In areas where there are no understory clumps to be retained, attempt to leave an occasional tree near the top of the ridge.  
Comment:

Proposed Start Date: 10/01/2017



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
137	42081137-Cut	9.5	42220 - Natural Jack Pine	Poletimber Well	87	141-170	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**                      **Site Condition: Unknown Access**

Prescription Clearcut. Small acreage, no retention. Spruce and jack pine will be left along edges of lowland. Skid wood back to Stand 131 or private land is preferred but a road could be built. Fairly level ground.

Specs:

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

Treatments:

Acceptable Regen: Jack pine with red pine, black spruce and white pine

Other Comment: In areas where there are no understory clumps to be retained, attempt to leave an occasional tree near the top of the ridge.

Proposed Start Date: 10/01/2017

143	42081143-Cut	6.0	42220 - Natural Jack Pine	Poletimber Well	78	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Clearcut. Small acreage, no retention. Jack pine and spruce can be left in sale boundary.

Specs:

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

Treatments:

Acceptable Regen: Jack pine with black spruce

Other Comment: If there are no understory clumps to be retained, attempt to leave an occasional tree near the top of the ridge.

Proposed Start Date: 10/01/2017

156	42081156-Cut	4.8	42290 - Natural Mixed Pine	Sawtimber Well	96	111-140	Harvest	Shelterwood with Retention	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Shelterwood with reserves. Residual BA of 40. Remove all aspen, spruce and jack pine and any maple. Retain all oak. Some slopes will not be harvested due to steepness, which will provide retention areas. Landing area on north side of the road.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Red pine with jack pine, aspen, maple, spruce and white pine

Other Comment:

Proposed Start Date: 10/01/2017

**Total Treatment Acreage Proposed: 423.9**

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 81  
Year of Entry: 2018

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

				2B	2I	5B	5C	2G	2H	3J	5D										
3	3	0	0	Herbaceous Openland																	
495	392	80	23	Jack Pine										36			44		18	5	
72	72	0	0	Low-Density Trees																	
350	302	27	21	Lowland Conifers											27					13	8
291	291	0	0	Lowland Shrub																	
483	206	0	277	Lowland Spruce/Fir																	277
621	621	0	0	Marsh																	
93	70	0	23	Natural Mixed Pines															23		
65	65	0	0	Northern Hardwood																	
45	19	16	10	Red Pine										6		10			10		
131	105	0	26	Tamarack														26			
714	714	0	0	Treed Bog																	
21	21	0	0	Upland Shrub																	
10	10	0	0	Urban																	
11	11	0	0	Water																	
37	30	7	0	White Pine												7					
3,443	2,932	130	381	Total Forested Acres										42	27	16	44	26	51	19	285
	85%	4%	11%	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	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 81  
Year of Entry: 2018

4	Available	2I: Survey needed	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5D: Unproductive Forest Land	277	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treed bog							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jason Tokar : Examiner

Compartment: 81  
Year of Entry: 2018

12	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	32	Unspecified	Unspecified	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

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**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
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	Poletimber Well	4.6	79	81-110	Stand is a mix of high and low ground. On higher ground, jack pine predominates, but as the ground slopes into lower areas, more spruce is present. A fair quantity of jack pine is either stunted, dead or dying. May be difficult to accomplish cultural work (of mechanical scarification) if winter cut is done, so direct seeding may be needed. Will need to cross private lands in order to harvest, which may not be possible. Soils are a Rousseau/Spot mix.
2	6122 - Black Spruce	Sapling Medium	226.3	61	Unspecified	Spruce with occasional jack pine (3 feet to 10-20 feet in height). Subtle ridges of timber within - not always definable, but, if close to any adjacent ridges of timber being treated, should assess further to see if harvesting could be possible. Soils are Spot/Dawson.
3	42220 - Natural Jack Pine	Poletimber Well	5.2	79	81-110	Mature jack pine with black spruce along Murphy Creek Rd, and bordering the Murphy Creek corridor. Extreme care would be needed along creek banks if and/or when stand is harvested. May not be possible due to BMP issues, although jack pine is slowly dying out. Leave white pine. Stand would be too small for scarification, so either direct seed, or, possibly plant to ensure immediate successful regeneration. Survey assistance may be necessary. Soils are Kinross/AuGres.
5	6122 - Black Spruce	Poletimber Medium	1.0	77	51-80	Small island stand with difficult access. Treat with adjacent stand(s), if possible. Soils are Spot/Dawson mix.
6	42220 - Natural Jack Pine	Poletimber Medium	1.9	71	81-110	Budworm damage present in jack pine tops and fairly limby wood; white pine is weeviled. Access will be difficult due to wet soils - will have to be winter or dry summer harvest. Soils are Spot/Dawson mix.
7	6122 - Black Spruce	Poletimber Medium	2.2	71	81-110	Soils are Spot/Dawson mix.
9	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	7.0	71	51-80	Soils are Spot/Dawson mix.
10	42220 - Natural Jack Pine	Poletimber Well	9.9	75	81-110	Ridge within low ground. Access due to ground limitations will be the major problem with harvesting this stand. May need to be a winter cut; if so, regeneration method may need to be changed to direct seeding. South tip of stand may be difficult to access due to low ground - contains smaller jack pine and connects to old "Murphy Creek" sale. Soils are Rousseau/Spot mix.
11	42220 - Natural Jack Pine	Poletimber Medium	6.2	76	81-110	Island stand of jack pine and black spruce. Subtle high ground within treed bog. Jack pine is fairly small along higher ground, and stand could be held for now, as a wildlife travel corridor connecting adjacent ridges. Access will be difficult. Soils are Spot/Dawson mix.
12	42220 - Natural Jack Pine	Poletimber Well	14.8	76	81-110	Island stand of jack pine and black spruce. Surrounded by treed bog. Jack pine is fairly small along higher ground, and stand could be held for now, as a wildlife travel corridor connecting adjacent ridges. Access will be difficult. Soils are Spot/Dawson mix.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	42220 - Natural Jack Pine	Poletimber Well	57.4	81	111-140	Jack pine ridges with stand edges dropping into spruce type. Areas with very nice jack pine, tall, high BA. Some evidence of mortality in jack pine but not too extensive. Some ridges are fairly steep, and may create harvesting problems. Probable access through stand 19 to the south. Access from the north is questionable with private land and long stretch to freeze in. Cultural needs have to be based on season of harvest; direct seeding may be more probable vs. scarification if winter cut is accomplished. Portion of stand (SW end) was cut in the early 50's. Soils are Rousseau/Spot.
15	42220 - Natural Jack Pine	Poletimber Well	7.3	81	81-110	Jack pine ridge with stand edges dropping into spruce/bog type. Some ridges can be fairly steep, and may create harvesting problems. Access is very limited. North access would have to be winter ice road. May be difficult to connect access to adjacent stands because of low surrounding ground. Soils are Rousseau/Spot.
16	42220 - Natural Jack Pine	Poletimber Well	5.7	69	81-110	Mature jack pine ridge with stand edges dropping into spruce type. Areas with very nice jack pine, tall, high BA. Some evidence of mortality in jack pine but not too extensive. Probable access through stand 19 to the south. Access from the north is questionable with private land and long stretch to freeze in. Cultural needs have to be based on season of harvest; direct seeding may be more probable vs. scarification if winter cut is accomplished. Check feasibility of treatment when adjacent stands are harvested. Soils are Rousseau/Spot mix.
17	6122 - Black Spruce	Sapling Poor	51.4	61	Unspecified	Some thicker spruce adjacent to ridges (3-4" dbh) with occasional Jack pine and White pine. Spot/Dawson soils.
19	42220 - Natural Jack Pine	Poletimber Well	19.2	81	111-140	Majority of this jack pine stand is fairly level. Steepest in the very southern end. Nice tall jack pine, heights increase in the northern reaches of the stand. 4-5 sticks in south, 5-6 sticks in north. Most of the jack pine is healthy. Old road bed through the southern third of the stand which can be easily extended up through to the northern portion of the stand. This stand can provide access to stands 22 (north end) and Stand 13.
21	42220 - Natural Jack Pine	Poletimber Well	5.9	63	111-140	Steep ridge of timber harvested ~1952. (15 - 35% slope). Access is through private property.
22	42220 - Natural Jack Pine	Poletimber Well	10.5	76	111-140	Jack pine is slightly shorter in the southern portion of this stand. Heights increase in the north end. Up to 20 BA dead jack pine throughout the stand. Stand is pretty steep in many areas (15 - 35% slope). Most of the stand is harvestable. Jack pine is mature.
23	42220 - Natural Jack Pine	Poletimber Well	5.4	85	111-140	Small acreage stand of decent jack pine. Component of red pine. Some steep areas within the stand.
24	42220 - Natural Jack Pine	Poletimber Well	15.1	58	111-140	Ridge of tall jack pine, averaging 5 sticks. Very thick BA throughout most of the stand. Component of red pine and black spruce. Steep and narrow ridge in spots. Old notes mention various cuts in the 1950's ('53-'59).



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	42290 - Natural Mixed Pine	Sawtimber Well	13.8	109	81-110	Red pine with a good component of jack pine mixed in. Also, pockets of aspen and black spruce. Quality of red pine is not as good as in Stand 28. Shorter heights and limby. Fairly steep ridge. Harvests in 1950's and 60's. Oldest red pine is ~ 100 years old. Stand provides access to ridges of jack pine timber. This stand should be treated along with adjacent jack pine stands as one sale.
27	42220 - Natural Jack Pine	Poletimber Well	15.2	73	111-140	Tall, straight jack pine. Areas throughout the stand with some dead jack pine (10-20 BA on some plots). Steep ridge (15-35% slopes) - may be difficult to harvest within the stand. Western portion of the stand is more level. Road access is poor sand road.
28	42210 - Natural Red Pine	Sawtimber Well	7.5	111	81-110	Old notes: Steep ridge of timber (15-35% slopes); will be difficult to harvest throughout entire stand. Several timber sales noted in the 1950's and 60's. Some of the lower slopes contain more large white pine, while on highest ridges, red pine is prone to sweep and crook. RP noted with mistletoe.  2016: large diameter red pine. Tall, sawtimber quality. Components of white pine, aspen, black spruce and jack pine. Steep slopes within the stand. A good portion of the stand is operable. Access into the stand will need improvement.
29	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	18.1	46	1-50	Small diameter black spruce, tamarack and cedar. soils are Spot/Dawson.
30	6121 - Tamarack	Poletimber Medium	54.5	55	51-80	Strip cuts done is the '60's.
31	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	55.6	49	Unspecified	Mix of spruce, tamarack, white pine; some pockets of cedar regeneration and small paper birch, Tamarack and spruce. Timber sale from 1965. Soils are Spot/Dawson mix.
32	6121 - Tamarack	Poletimber Poor	43.2	180	1-50	Mix of spruce, tamarack with marsh type; intermittent drainage through stand. Soils are Histosols/Aquents.
33	42290 - Natural Mixed Pine	Poletimber Medium	7.2	56	51-80	Small stand of shorter jack pine, red pine, component of white pine and black spruce. A few white birch. Old trail leads into stand across bog type. Open areas within. WP present with fairly heavy weeviling. Cutting records from the 1960's. Both jack and red pine are around 40-45' in height. Soils are Spot/Dawson.
36	42220 - Natural Jack Pine	Poletimber Well	15.0	74	81-110	OPIC - FMD: Portion of stand was harvested in the late 1950's (within Sec 22) - remaining stand left. Edges are heavier to spruce; fairly steep and narrow ridge, in places. 1998 entry: stand 43



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	42220 - Natural Jack Pine	Sapling Well	112.3	14	Immature	T.Sale #14-98 "Murphy Creek Pine", harvested 2000. Although scarification was never completed (part of FTP 42-445 - located in NW 1/4 of Section 23), there is natural regeneration present. Prescribed burn (Luce 19-2002) was accomplished in late August, 2002 (21 acres) and JP direct seeding was done 3/19/03 over burn site (~18 acres). Burned and seeded area located in portion of section 22 and NWSW of section 23. Additional 8 acres burned 6/2003 (Unit 3 finger- section 22) - no seeding. NE corner of sale contains residual cedar, red and white pine, and some regeneration of these species, as well as BF, was noted. Soils are Rousseau/Spot mix. Portion of stand, mainly along stand edges and south of the main access road through stand, is lower ground and not typed out as separate stand - expected to regenerate more to spruce. On revisit to stand during internal audit 7/19/06, young JP budworm caterpillars noted within burn/direct seeded portion of stand. 2016: Overall the stand has regenerated nicely. Most areas within the stand are dominated by young jack pine. Jack pine throughout the stand averaging 8-15 ft tall. Lower areas within the stand have a good component of black spruce mixed with jack pine. Good component of red pine regeneration as well, 5-10 ft tall, mostly in the eastern 2/3 of the stand. Northeastern portion of the stand has a component of residual pole/sawlog white pine and red pine.
41	42220 - Natural Jack Pine	Sapling Medium	8.4	15	Immature	T.Sale #14-98 "Murphy Creek Pine", harvested 2000. Scarification was never completed (FTP 42-445), nor burning. There is natural regeneration present. Mainly jack pine with a component of black spruce, red pine.
42	6122 - Black Spruce	Poletimber Well	9.4	84	81-110	Spruce stand on lower ground adjacent to ridge. Some tamarack, white pine present. Tag alder in understory. Soils are Spot/Dawson.
45	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	33.5	77	51-80	Larger diameter cedar, white pine with spruce, red maple, paper birch poletimber. Low quality, wet stand - soils are Spot/Dawson - winter logging would be necessary. Tag alder throughout understory. Stand borders the Murphy Creek.
48	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	30.0	63	81-110	Stand was harvested in the early 1950's, and includes both jack pine ridge and lower spruce timber type. Soils are Spot/Finch and Rousseau (ridge). Some older red and white pine along the east edge of stand. There is an old foundation within stand - origin unknown - just off trail road. Land exchange done in 1979 due to cabin trespass (#42-48-1978-01) within SWSWNWSE; survey assistance will be required to establish new property lines correctly before harvest can occur.
49	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	45.8	38	1-50	Stand was harvested under several timber sales from 1976-78; some residual pine, hemlock, cedar left as well as uncut hardwood (red maple primarily, although some black ash on lower ground). Cedar along stand edges. Regeneration is primarily a mix of paper birch, aspen, spruce, balsam fir as well as minor components of red pine and white pine.
50	6122 - Black Spruce	Poletimber Medium	8.1	63	51-80	Patchy timber - wet pockets within. Timber is a little more open and lower quality than surrounding stand (stand 48). Leave this stand for diversity if adjacent stand is harvested. Some tag alder present. Soils are Spot/Finch.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	6122 - Black Spruce	Poletimber Well	3.2	87	111-140	Thick, tall spruce; edges contain some jack and white pine. Private land adjacent to the south was just harvested. Private lines are in, will need to be checked. Soils are Spot/Finch.
52	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.3	81	81-110	Mixed stand of cedar, black spruce, red maple, paper birch, balsam, white pine. Understory species contains a mix of cedar, spruce, balsam, hemlock, 20 feet in height. Overstory 40-45 feet in height. Stand borders Murphy Creek. Soils are Lupton-Tawas-Carbondale.
54	42200 - Natural White Pine	Sawtimber Medium	6.7	126	1-50	OPIC - FMD: Cutting done 10/76 - 4/78 (t. sale 21-76A - 30 acres); regeneration is mix of paper birch, red maple, and balsam fir. Some white pine regeneration. Wait for understory to reach merchantability before harvesting again, and include cultural treatment to encourage more WP regen at that time. Soils are Paquin/Spot.
55	4113 - R.Maple, Conifer	Poletimber Well	65.3	90	51-80	Low quality red maple with cedar patches, hemlock, and scattered white pine, spruce. Several cuts were completed within stand, including a salvage ("cut all trees" #33-82) cut and selection cut (#21-76A completed 4/78). Some hemlock and white pine regeneration present; maple clump sprouts. Aspen and paper birch within, 35+ feet in height. Check for harvest in 10 years. Soils are Paquin/Spot.
57	42220 - Natural Jack Pine	Poletimber Well	2.1	71	111-140	Jack pine stand along County Road 510, Skyline Road. Mature jack pine, with black spruce along edges. Stand narrows down to lowland types on the west end. Bordered by private to the north and east.
58	42290 - Natural Mixed Pine	Poletimber Well	5.7	67	81-110	Narrow ridge of red pine and jack pine.
61	6122 - Black Spruce	Sapling Well	38.5	67	Unspecified	Small diameter black spruce with component of tamarack and jack pine. Some pole size jack pine. Stand includes some lower ground in the eastern finger. Could be classified as a treed bog stand. Soils are Spot/Dawson.
63	6122 - Black Spruce	Sapling Well	1.6	67	Unspecified	Small diameter black spruce with component of tamarack and jack pine. Some pole size jack pine. Soils are Spot/Dawson mix.
64	42290 - Natural Mixed Pine	Sawtimber Well	3.7	100	81-110	Mixed pine stand of red pine and jack pine, with component of spruce, aspen, white pine. Stand is along the side of Skyline Road; slopes of 6 - 35%. Soils are a blend of Rousseau - Rousseau/Spot. East end of stand is wider and less of a slope coming off the county road. West end very narrow and steep.
65	6122 - Black Spruce	Sapling Well	11.3	67	Unspecified	Small diameter black spruce with component of tamarack and jack pine. Some pole size jack pine. Soils are Spot/Dawson mix.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	42220 - Natural Jack Pine	Poletimber Well	28.5	67	111-140	Stand combines ridges of jack pine, which slope into lower spruce/jp type. Southern portion of the stand is a nice E/W ridge of jack pine. Some red and white pine within. Lower areas are a mix of spruce, jack pine and some tamarack (NW portion of stand). Jack pine is mature. Stand was harvested in the late 40's or early 50's. Porcupine damage noted on jack pine stems in a few places. Soils are Spot/Finch and Spot/Dawson. Manage for both jack pine and spruce primarily, although misc. species can be encouraged for diversity, where appropriate.
68	6125 - Lowland Black Spruce, Jack Pine	Sapling Well	8.1	61	Unspecified	Small spruce and tamarack primarily. Southern edges could almost be types as a Q2/Q3. Soils are Spot/Dawson.
69	42200 - Natural White Pine	Sawtimber Well	29.9	96	81-110	Stand can be quite variable; higher ridge grounds of red and white pine (also a small patch of jack pine along trail road), transitioning down to white pine, spruce and fir. Some red maple and paper birch regen in understory, but primarily spruce and balsam. Soils go from Rousseau on ridges to lower areas of Spot/Finch and Spot. A lot of the paper birch within is already dead or dying. Some dead tops on white pine and red pine. Where WP is more open-grown, there is weeviling present. Components of aspen and red maple. Basal area ranges from 60-110.
70	6129 - Mixed Coniferous Lowland Forest	Sapling Well	4.9	34	1-50	Stand contains some merchantable timber (left from prior harvest). Regeneration includes: red maple, paper birch, spruce/fir, aspen, and a fairly good quantity of WP saplings/poles. Soils are Spot.
71	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	8.2	34	Unspecified	Mixed stand of younger timber, maple, spruce, tamarack, birch, white pine, balsam. Very thick Q3 understory. Much of the stand is still sapling size with some small diameter poles. Wet. Soils are Spot.
75	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	9.4	81	81-110	Stand grades from spruce to spruce/WP/cedar/PB and red maple. A lot of the paper birch within is dead/dying. A couple of deer blind found just onto State lands north of trail road. Soils are Rousseau/Spot.
77	6122 - Black Spruce	Poletimber Well	15.4	71	51-80	Mixed stand of black spruce and jack pine. Component of white pine. Areas of S5/S4. Along trail road, stand is heavier to jack pine. Private gate in trespass adjacent to D type. Soils are Spot-Finch, and some Rousseau-Spot.
80	42220 - Natural Jack Pine	Poletimber Well	36.1	67	111-140	Mature jack pine stand. Edges with black spruce, some tamarack along south edge. Basal area ranges from 110-140 in narrow areas and 141-170 in wider areas of the stand. Average of 4-5 sticks. Light mortality in the stand. Occasional white pine and red pine. More black spruce in the eastern portion of the stand. Soils are Rousseau (on ridges) and Rousseau-Spot (low edges).
81	6122 - Black Spruce	Poletimber Poor	20.2	71	1-50	Lowland stand of black spruce, tamarack and jack pine. Good component of jack pine throughout, especially close to the jack pine ridges. Mostly sapling size but some trees are merchantable, 1 stick. Soils are Dawson-Greenwood-Loxley (with Rousseau/Spot edges).



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
84	6122 - Black Spruce	Poletimber Medium	9.5	68	51-80	Black spruce with a high component of tamarack. Q4/S5/S3. Areas with merchantable spruce but also alot of the stand is sub-merchantable spruce and tamarack. Along Skyline Road (Co Rd 510), the roadside contains more jack, red and white pine - some paper birch. Soils are Tawas-Spot-Finch. 1998: stand 72
86	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	5.9	71	51-80	Mixed stand along Skyline Road (Co Rd 510); heavier to jack pine at east end, more spruce and tamarack to west. Fairly low section of Co Rd - road condition is poor throughout spring and early summer. Harvesting may not be advisable. Some paper birch, aspen. Soils are Rousseau-Markey.
87	6122 - Black Spruce	Poletimber Well	9.2	62	81-110	Small diameter black spruce. Component of tamarack and jack pine. Old red pine within. Lowland stand with slightly higher ground in spots. Spotty timber, in places also. Soils are Rousseau-Markey.
88	42210 - Natural Red Pine	Sawtimber Well	10.1	133	51-80	Stand was previously listed as potential old growth - comment from '98 inventory said "very large red pine along narrow ridge in marsh - lots of red and white pine and black spruce regeneration underneath it - could just leave this alone". Regeneration is S2 - S3 along ridge edges (~ 3" dbh) and along ridge, good component of R1 - R2 (some WP) approximately 4 - 6" dbh and 20 - 30 foot in height. W. end contains more jack pine (against stand 89). Soils are Rousseau/Markey.
89	42220 - Natural Jack Pine	Poletimber Well	7.4	55	81-110	Stand was cut in the late '50's - early '60's (land was acquired through exchange in 1984). Difficult access due to location; soils are a mix of Rousseau on slightly higher ground and Markey low ground.
92	42210 - Natural Red Pine	Sawtimber Poor	5.0	113	1-50	Old notes: Old red pine - scars from previous logging evident. Thin to seed tree level to encourage natural regeneration - use burning, if possible, to prepare seedbed.  Stand harvested as Skyline Ridges, sale #009-08-01. Completed 07/02/10. Residual red pine seed trees are healthy. Some maple sprouts and spruce regen starting. Old road into west end of stand could be access to stand 103.
93	6122 - Black Spruce	Sapling Poor	32.1	61	Unspecified	Spruce, tamarack, snags. Soils include Dawson/Greenwood/Loxley.
94	42220 - Natural Jack Pine	Poletimber Well	8.2	28	1-50	T. sale # 03-88-2 (10.5 acs) harvested in 3/1988. ~ 14.5 cds/ac were harvested. No FTP completed. Regeneration is a mix of mostly Jack pine with some aspen red pine, white pine and spruce. Some tamarack and white birch well. Some pockets of jack pine up to 60 BA. Along edge of treed bog, regeneration is a bit shorter. Very nice 5-10 ft tall jack pine regen in the area of the road turnaround, down to sand.
96	6122 - Black Spruce	Sapling Well	11.3	75	1-50	Small diameter black spruce with tamarack and some jack pine. Edges along high ground have better timber, slightly larger diameters and thicker. Some pole sized spruce. Overall the stand is a very wet, small diameter stand. Stand could be classified as a treed bog, in places. Soils are Tawas-Spot-Finch.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
97	42290 - Natural Mixed Pine	Sawtimber Well	8.8	100	81-110	Red pine stand with a good component of jack pine on the high ground. Northern portion of the stand drops into more spruce. Fairly steep slope. Jack pine is mature and showing some decline. Red pine is healthy. Minor components of white pine and aspen. Soils are a blend of Rousseau - Rousseau/Spot. Gate at private land is ~ 200' onto State land.
100	42210 - Natural Red Pine	Sawtimber Medium	2.4	96	1-50	Stand harvested as Skyline Ridges, sale #009-08-01. Completed 07/02/10. Residual red pine and scattered maple. Regeneration of aspen, maple sprouts, and some jack pine. Most aspen regen is along the road (10ft). Long term management objective for the stand is the regenerating stand (jack pine and aspen).
101	42290 - Natural Mixed Pine	Sawtimber Well	11.7	96	51-80	Red pine stand with good white pine component. Sawtimber size pine. Good aspen and oak component as well. Aspen and jack pine are both mature. Rolling to steep terrain. Old skid trail runs parallel to Skyline Road. T. sale # 5-71, 22-72? Most of the PB is dead already. Portion of the stand south of the Skyline Road has a higher component of aspen and jack pine.
102	6122 - Black Spruce	Poletimber Well	9.3	78	81-110	Black spruce with white pine and minor components of cedar and tamarack. Better quality in northern reaches of the stand. Merchantable timber in northern half of the stand. Stand is primarily a spruce bog in southern portions. Wetter the further south you go in the stand. Soils are Dawson-Greenwood-Loxley.
103	42210 - Natural Red Pine	Sawtimber Medium	3.6	96	51-80	Red pine ridge with limited access. Average BA ranges from 60-100. Mainly red pine with a component of white pine. Spruce along the edges.
104	6122 - Black Spruce	Sapling Medium	6.1	78	Unspecified	Stand is primarily a spruce bog, although some red pine and tamarack were noted. Pockets of merchantable timber within stand (mainly east end). Small diameter stand. Trees are ~ 16-30 feet in height. Soils are Dawson-Greenwood-Loxley.
106	6121 - Tamarack	Poletimber Medium	6.8	98	1-50	Small diameter tamarack, 5-6 inch diameter. Black spruce. Ground cover of sphagnum, labrador tea, tagalder, grasses. Some small paper birch within.
107	42220 - Natural Jack Pine	Sapling Well	26.3	26	Immature	Old notes: T. sale #12-88 "Dead End Jack Pine" - cut Summer, '88-'89. FTP 42-240. Mixed desired regeneration of J,R,W,S,B and A. Some residual R,W,A and PB were left. A few jack pine, also, which were probably unmerchantable at the time of cut.  2016: Stand is a real mix of species. Primarily jack pine, moving into the pole size class through most of the stand. Still areas of J3 that are just sub-merchantable. Good component of black spruce, aspen, white birch and maple. Some red pine regen. Majority of the misc tree species are still sapling size.
108	6121 - Tamarack	Poletimber Well	19.4	98	51-80	Small diameter tamarack pole stand. Good component of black spruce, some white pine. Edges of the stand are smaller diameter and less dense. Some areas are more of a T3/Q3.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
109	42220 - Natural Jack Pine	Poletimber Well	5.4	83	81-110	Stand is a narrow ridge of timber within marsh. Jack pine ridge with a component of black spruce along edges. Access would be from stand 107. Eastern portion of stand is heavier to red pine.
110	42290 - Natural Mixed Pine	Poletimber Well	5.8	72	111-140	Mature jack pine with red pine and black spruce. Western portion of the stand is higher ground with more jack pine and red pine with spruce along edges. Eastern portion/narrow portion of the stand drops to slightly lower ground with a mix of jack pine and black spruce, shorter heights. Old trail/road bed into the northern portion of the stand from Skyline Road for possible access. Soils are Rousseau/Spot.
111	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	10.7	69	1-50	Primarily spruce and tamarack with jack pine. Areas of more tamarack and others with more spruce and jack pine. Sapling and small poles. Low ground. Soils are Rousseau-Spot.
113	42220 - Natural Jack Pine	Poletimber Well	2.7	71	111-140	Jack pine stand along County Road 510, Skyline Road. Mature jack pine, with black spruce along edges. Stand narrows down to lowland types on the west end. Bordered by private to the north and east. Soils are Rousseau-Spot.
114	42220 - Natural Jack Pine	Poletimber Well	5.6	58	111-140	Jack pine with black spruce and red pine. Eastern portion of the stand is taller jack pine, higher ground. Larger diameters also. Western portion has more of a spruce component mixed in. Good access road through the stand from private property. T. sale # 8-56? Difficult access through private; schedule surrounding stands when harvest (stand 110, 116, 117) does occur. Old harvest trail road through stand. Soils are Rousseau/Spot.
116	42290 - Natural Mixed Pine	Sawtimber Well	2.6	96	81-110	Older red and white pine within stand with component of jack pine and spruce. Some paper birch within. Thick tamarack regeneration present along swamp edges of ridge. Difficult access - through private lands, and wet grounds. Soils are Rousseau/Spot.
117	42220 - Natural Jack Pine	Poletimber Well	5.5	68	111-140	Ridge stand within treed bog. Possibly old timber sale # 18-55A? Old trail road from previous harvest runs through stand (kept open by ORV's). 2-4" dbh T3 along ridge edges (~ 40' height) with spruce. Difficult access - will have to come through adjacent private lands; Soils are Rousseau/Spot.
118	6121 - Tamarack	Sapling Medium	6.9	58	Unspecified	Thicker tamarack, in places, especially along ridge edges. Soils are Tawas-Spot-Finch.
119	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	26.8	79	1-50	Soils are Tawas-Spot-Finch.
120	42220 - Natural Jack Pine	Poletimber Well	10.7	83	111-140	Mature jack pine with component of black spruce and red pine. Some dieback in the jack pine. Stand is narrow ridge of timber within marsh. Only access would be via winter ice road - difficult. Some flooding of stand is occurring. Lower ends of stand are more spruce type.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
121	42290 - Natural Mixed Pine	Sawtimber Well	5.7	96	51-80	Ridge of large pine within bog. RP with mistletoe. Stand does transition to smaller JP with older RP component (some cutting in '60's?) Small components of aspen, spruce, balsam fir, and red maple. Private ORV trail goes to deer blind and salt blocks - has been there awhile.
122	42220 - Natural Jack Pine	Poletimber Well	14.5	78	111-140	Mature jack pine with a component of red pine, black spruce and some aspen. Stand contains areas with higher pure JP concentrations and red pine areas. Stand edges of spruce. Some smaller jack pine where partial cut occurred in the '60's. Deer blind with salt blocks found within the stand. PB occasional found within. Access is through private property.
124	42210 - Natural Red Pine	Sawtimber Well	4.2	96	81-110	Red pine stand with a good component of jack pine, in patches. Fairly steep ridge of timber, accessible across private lands only. May be too steep to treat, in places. Older jack pine being replaced by red pine. Fairly good red pine regen (up to 4" dbh size) in spots. Road through the stand leads to deer blind at the end of the ridge.
125	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	4.2	76	1-50	Black spruce, tamarack, cedar, and occasional white pine. Small diameters. Q3/Q3. Ground cover of sphagnum, tagalder. Some small paper birch saplings within. Soils are Tawas-Spot-Finch.
126	6122 - Black Spruce	Sapling Well	4.3	78	Unspecified	Small diameter, black spruce. Very wet ground. Ground cover of sphagnum, labrador tea. Soils are Dawson-Greenwood-Loxley.
127	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	15.5	71	1-50	Strip cut - t. sale # 17-61. Small diameter black spruce, tamarack and cedar. Stand is open in the eastern portion. Overall a Q4 type. Ground cover includes: sphagnum, tagalder, grasses, snowberry. Some paper birch within stand. Regeneration is 2 - 4" dbh. Soils are Tawas-Spot-Finch.
128	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	6.9	71	51-80	Low, wet stand with sphagnum, tagalder ground cover. Paper birch and some red maple within. Soils are Tawas-Spot-Finch.
130	42210 - Natural Red Pine	Sawtimber Well	3.4	86	51-80	Small acreage stand of large diameter red pine. Difficult access, private and isolated in marsh. Soils are Rousseau-Spot/Rousseau-Markey.
131	42210 - Natural Red Pine	Sawtimber Well	2.0	86	51-80	Small acreage stand of large diameter red pine. Difficult access through private. Trail road across private does access stand. Soils are Rousseau-Spot/Rousseau-Markey.
132	42220 - Natural Jack Pine	Poletimber Well	1.6	78	111-140	Small ridge of mature jack pine. Fairly nice, tall jack pine. Access is through private land. If accessible, treat with adjacent stand north of the private. Soils are Rousseau-Spot/Rousseau-Markey.
133	42290 - Natural Mixed Pine	Poletimber Well	23.2	78	111-140	Subtle ridge stand within marsh which contains mix of jack pine, spruce and red pine; edges are predominately spruce, cedar and tamarack. Western portion of the stand is dominated by red pine, more jack pine in the eastern portion. Difficult access - would be winter access only. Soils are Rousseau-Spot/Rousseau-Markey. 1998: stand 80,81



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
134	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	8.5	180	51-80	Stand contains some red pine, cedar. Soils are Rousseau/Markey.
135	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	11.1	180	1-50	Some cedar, red and white pine within. Wet, low ground stand. Soils are Rousseau/Markey.
136	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	9.4	68	51-80	
137	42220 - Natural Jack Pine	Poletimber Well	9.5	87	141-170	Mature jack pine ridge. Overall the jack pine is healthy. Component of red pine and black spruce. Most of red pine is in the eastern portion of the stand. Access is through private land and then an old road bed from stand 31. Soils are Rousseau- Spot.
138	42210 - Natural Red Pine	Poletimber Poor	4.8	91	1-50	Stand harvested as sale# 14-06-1 - Comp 116 Mix. Closed 2011.
141	42220 - Natural Jack Pine	Poletimber Well	1.5	67	51-80	Isolated ridge of timber. Soils are Kinross/AuGres.
142	6122 - Black Spruce	Sapling Medium	7.3	67	Unspecified	Stand includes some lower ground at the north end of stand, with tamarack. Could be classified as a treed bog stand. Soils are Spot/Dawson.
143	42220 - Natural Jack Pine	Poletimber Well	6.0	78	111-140	Mature jack pine with spruce mainly along the stand edges. Nice tall jack pine. Healthy stand with a few dead trees. Some smaller jack pine where partial cut occurred in the '60's. Private gate located about half way N/S through the stand.
144	42220 - Natural Jack Pine	Poletimber Well	3.1	58	51-80	Ridge stand within treed bog. T. sale # 18-55A? Old trail road from previous harvest runs through stand (kept open by ORV's). 2-4" dbh T3 along ridge edges (~ 40' height) with spruce. Difficult access - will have to come through adjacent private lands; schedule with adjacent stands (stands 110,114,116) when harvest. Soils are Rousseau/Spot.
145	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	2.5	71	51-80	Mixed stand along Skyline Road (Co Rd 510); heavier to jack pine at east end, more S/T to west. Fairly low section of Co Rd - road condition is poor throughout spring and early summer. Harvesting may not be advisable. Some paper birch, aspen. Soils are Rousseau-Markey.
148	6122 - Black Spruce	Sapling Well	0.3	67	Unspecified	Small diameter black spruce with component of tamarack and jack pine. Some pole size jack pine. Soils are Spot/Dawson mix.
152	6122 - Black Spruce	Sapling Medium	4.9	67	Unspecified	Small diameter black spruce with component of tamarack and jack pine. Some pole size jack pine. Stand includes some lower ground at the north end of stand, with tamarack. Could be classified as a treed bog stand. Soils are Spot/Dawson mix.
153	6125 - Lowland Black Spruce, Jack Pine	Poletimber Poor	14.3	68	1-50	Stand is tamarack with spruce and some jack pine. Along Skyline Road (Co Rd 510), the roadside contains more jack, red and white pine - some paper birch. Soils are Tawas-Spot-Finch.

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Newberry Mgt. Unit

Report 7 – Forested Stands

Compartment: 81  
Year of Entry: 2018



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
156 42290 - Natural Mixed Pine	Sawtimber Well	4.8	96	111-140	Red pine stand with good white pine component. Sawtimber size pine. Good aspen and oak component as well. Aspen and jack pine are both mature. Rolling to steep terrain. Old skid trail runs parallel to Skyline Road. T. sale # 5-71, 22-72? Most of the PB is dead already. Portion of the stand south of the Skyline Road has a higher component of aspen and jack pine.
158 42210 - Natural Red Pine	Sawtimber Medium	2.2	96	1-50	Stand harvested as Skyline Ridges, sale #009-08-01. Completed 07/02/10. Residual red pine and scattered maple. Regeneration of aspen, maple sprouts, and some jack pine. Most aspen regen is along the road (10ft). Long term management objective for the stand is the regenerating stand (jack pine and aspen).



Stand	Cover Type	Acres	Managed Site	General Comments:
4	622 - Lowland Shrub	6.4	No	Tagalder with patchy timber along Murphy Creek. Soils are Histosols/Aquents.
8	622 - Lowland Shrub	12.6	No	Low ground with tagalder and some spruce, tamarack, jack pine, red maple. Soils are Spot/Dawson mix.
18	6224 - Treed Bog	56.6	No	Tamarack and spruce. Soils are Dawson/Greenwood/Loxley.
20	6224 - Treed Bog	88.3	No	Tamarack and spruce. Soils are Dawson/Greenwood/Loxley.
25	6224 - Treed Bog	2.6	No	Spruce bog between JP ridges. Spot/Dawson soils.
34	6224 - Treed Bog	24.7	No	
35	6224 - Treed Bog	8.5	No	
37	6224 - Treed Bog	33.9	No	Spruce, tamarack, jack pine, and occasional cedar, white pine. Portion is lowland brush. Edges along the upland stands are more of an S5 with spruce, tamarack and some cedar. Soils are Dawson/Greenwood/Loxley.
39	6224 - Treed Bog	6.6	No	Spruce, tamarack, jack pine, and occasional cedar, white pine. Soils are Dawson/Greenwood/Loxley.
40	6224 - Treed Bog	6.3	No	Spruce, tamarack, jack pine, and occasional cedar, white pine. Soils are Dawson/Greenwood/Loxley.
43	622 - Lowland Shrub	5.5	No	Good portion is open, lowland brush type. Spruce, tamarack, jack pine, and occasional cedar, white pine. Soils are Dawson/Greenwood/Loxley.
44	6224 - Treed Bog	5.1	No	Small treed bog between jack pine harvest areas. Spruce, tamarack, jack pine, and occasional cedar, white pine. Soils are Dawson/Greenwood/Loxley.
46	622 - Lowland Shrub	60.0	No	Some scattered timber in low along Murphy Creek. Soils are Histosols/Aquents.
47	6229 - Mixed lowland shrub	5.0	No	Some scattered timber in low. Soils are Dawson/Greenwood/Loxley.
53	622 - Lowland Shrub	47.7	No	Some scattered timber in low along Murphy Creek. Soils are Histosols/Aquents.
56	623 - Emergent Wetland	191.7	No	Marsh contains tagalder, cattails, snags, grasses, spruce, tamarack. Portions of the stand are more of a lowland brush type. Soils are a mix of Markey and Dawson/Greenwood/Loxley; some Histosols and Aquents.



Stand	Cover Type	Acres	Managed Site	General Comments:
59	622 - Lowland Shrub	61.3	No	Includes some scattered timber. Soils are Histosols/Aquents and Spot/Dawson.
60	310 - Herbaceous Openland	1.8	No	T.Sale #14-98 "Murphy Creek Pine", harvested 2000. Although scarification was never completed (part of FTP 42-445 - located in NW 1/4 of Section 23), there is natural regeneration present (1-3 foot tall). Prescribed burn (Luce 19-2002) was accomplished in late August, 2002 (21 acres) and JP direct seeding was done 3/19/03 over burn site (~18 acres). Burned and seeded area located in portion of section 22 and NWSW of section 23. Additional 8 acres burned 6/2003 (Unit 3 finger- section 22) - no seeding.  2016: This portion of the original larger stand (stand 38) has not regenerated. Stand is an open area with bracken fern and blueberry.
62	330 - Low-Density Trees	72.0		Soils are Rousseau - Rousseau/Spot mix. Stand final harvested as sale #010-08-01, Skyline Jack Pine. Completed 04/30/12. Regen 2016: 447 TPA of jack pine and 461 TPA of black spruce. Residual basal area less than 10. Ground blind in far eastern finger.
72	622 - Lowland Shrub	14.9	No	Includes some scattered timber. Soils are Histosols/Aquents and Spot/Dawson.
73	500 - Water	11.4	No	Beaver pond.
74	623 - Emergent Wetland	18.5	No	Soils are Histosols/Aquents, flooded.
76	622 - Lowland Shrub	25.8	No	Stand does contain a couple of islands of flooded timber (S,T,WP,PB) - heavy tagalder surrounds. Some Q1-2 in understory. S. end of stand contains Champion corner post and marker - more of a D type here. Soils are Spot/Dawson.
78	6224 - Treed Bog	2.7	No	Small treed bog stand.
79	622 - Lowland Shrub	20.1	No	Mix of spruce, tamarack and occasional JP.
82	6224 - Treed Bog	49.7	No	OPIC - FMD: Contains tamarack, spruce. Soils are Dawson/Greenwood/Loxley. 1998: stand 29
83	6224 - Treed Bog	40.2	No	Contains primarily tamarack, spruce. Soils are Dawson/Greenwood/Loxley.
85	6224 - Treed Bog	21.9	No	Stand contains some tamarack, spruce and occasional JP. D0/S3
90	623 - Emergent Wetland	236.7	No	Marsh contains tagalder, cattails, snags, grasses, spruce, tamarack. Portions of the stand are more of a lowland brush type. Soils are a mix of Markey and Dawson/Greenwood/Loxley; some Histosols and Aquents.



Stand	Cover Type	Acres	Managed Site	General Comments:
91	320 - Upland Shrub	5.5		Stand harvested as Skyline Ridges, sale #009-08-01. Completed 07/02/10. Jack pine regeneration starting to establish. Black spruce regeneration as well. Scattered pole size jack pine that were left after the harvest also present.
95	320 - Upland Shrub	3.2		Stand harvested as Skyline Ridges, sale #009-08-01. Completed 07/02/10. Jack pine seedlings and black spruce establishing.
98	320 - Upland Shrub	10.8		Stand harvested as Skyline Ridges, sale #009-08-01. Completed 07/02/10.
99	6224 - Treed Bog	244.8	No	Soils are Dawson-Greenwood-Loxley.
105	6224 - Treed Bog	62.7	No	Tagalder, cattails, tamarack (1-2" dbh), spruce. Stunted trees, open stand. Soils are Dawson-Greenwood-Loxley.
112	6224 - Treed Bog	2.8	No	Spruce and tamarack, primarily tamarack. Soils are Dawson-Greenwood-Loxley.
115	6224 - Treed Bog	1.6	No	Spruce and tamarack primarily. Soils are Dawson-Greenwood-Loxley.
123	6224 - Treed Bog	55.0	No	Tamarack bog (~10 foot avg. height) with a component of black spruce. Leatherleaf and tagalder ground cover. Soils are Dawson-Greenwood-Loxley.
129	622 - Lowland Shrub	32.0	No	OPIC - FMD: Roy Lake lies to the west of this stand.
139	122 - Road/Parking Lot	1.8	No	County Road 510 (Skyline Road) and cleared right-of-way
140	623 - Emergent Wetland	173.9	No	Marsh contains tagalder, cattails, snags, grasses, spruce, tamarack. Portions of the stand are more of a lowland brush type. Soils are a mix of Markey and Dawson/Greenwood/Loxley; some Histosols and Aqents.
147	310 - Herbaceous Openland	1.6	No	T.Sale #14-98 "Murphy Creek Pine", harvested 2000. Although scarification was never completed (part of FTP 42-445 - located in NW 1/4 of Section 23), there is natural regeneration present. Prescribed burn (Luce 19-2002) was accomplished in late August, 2002 (21 acres) and JP direct seeding was done 3/19/03 over burn site (~18 acres). Burned and seeded area located in portion of section 22 and NWSW of section 23. Additional 8 acres burned 6/2003 (Unit 3 finger- section 22) - no seeding.  2016: This portion of the original larger stand (stand 38) has not regenerated. Stand is an open area with bracken fern and blueberry.
149	320 - Upland Shrub	1.8		Stand harvested as Skyline Ridges, sale #009-08-01. Completed 07/02/10.
151	122 - Road/Parking Lot	3.3	No	County Road 510 (Skyline Road) and cleared right-of-way





Stand	Cover Type	Acres	Managed Site	General Comments:
154	122 - Road/Parking Lot	4.9	No	County Road 510 (Skyline Road) and cleared right-of-way