



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42087

Entry Year 2022

Acreage: 1,690

County Luce

Management Area: 8 Mile Corner

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**Revision Date:** 2020-08-21

**Stand Examiner:** Jacob Kriehn

**Legal Description:**

T47N R10W Sections 32-36

**Identified Planning Goals:**

Compartment 87 is located within the 8 Mile Corner Management Area. Maintain or enhance the forest health, productivity, and diversity of the area through proper management. Enhance age class diversity in the forest cover types through continued timber harvest treatments.

**Soil and topography:**

The major soil series in this compartment are Liminga-Alcona complex, Kalkaska sand, Spot-Finch complex, Wallace sand, Paquin sand, and Carbondale, Lupton and Tawas mucks. Upland areas are dominated by two soil types; Kalkaska sand and Liminga-Alcona complex. These upland soils support cover types of aspen, red pine and northern hardwoods. There is a scattering of lowland areas primarily in the eastern reaches of the compartment, dominated by Carbondale, Lupton and Tawas muck soils supporting lowland black spruce and mixed swamp conifer cover types. There is limited topography in the compartment with some rolling hills and ridges in the transitions from upland to lowland areas.

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

The compartment is broken into 3 sections of State land with sections of private land. The compartment is bordered by State land to the north and east. There is a mixture of State land and small private parcels bordering the compartment to the south and west. The compartment is within 10 miles of Newberry so there is a moderate amount of development in the area primarily consisting of homes and camps. Land use is high in the compartment due to the proximity to town. There is an ATV trail that goes through part of the compartment and it receives a moderate amount of use.

**Unique Natural Features:**

MNFI lists the potential for red-shouldered hawk, goshawk, great blue heron rookery, eagle, osprey, and little brown bat. There is also potential for moose and wolf.

**Archeological, Historical, and Cultural Features:**

None known at this time.

**Special Management Designations or Considerations:**

There are no special management designations.

**Watershed and Fisheries Considerations:**

Headwaters for Auger Creek and Otto Brandt Creek begin in this compartment. Auger Creek is a designated trout stream upstream of M-123. The headwater tributaries (sometimes intermittent) to Otto Brandt Creek are also designated trout streams. Clear-cut treatments in any stand susceptible to aspen regeneration should adhere to a 300 ft buffer from the streams.

**Wildlife Habitat Considerations:**

Compartment 87 lies in central Luce county in the Seney Sand Lake Plain ecological sub-subsection and in the 8 Mile Corner Management Area where ruffed grouse, blackburnian warbler, white-tailed deer and pileated woodpecker are featured species. The compartment has a large percentage of aspen and northern hardwoods with a few pine plantations in the western half and more variety of cover types in the eastern half including upland mixed stands, lowland spruce, conifer, and deciduous stands as well as a jack pine ridge that makes a nice travel corridor for wildlife.

Harvested stands are small and will generally be clearcut with attempts to leave mature aspen as boundary trees to meet winter grouse needs for buds. Previous treatments exist for several large stands in the far eastern portion and will be retained. Notable wildlife species using the compartment include coyotes, wolves, bobcat, snowshoe hare, ruffed grouse, and black bear.

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

Sections 25 & 32-36, T47N-R10W, Luce County

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The closest active sand/gravel pit is more than five miles to the south. There appears to be some potential for sand in places within the compartment. The best opportunity for potential development is in the west half of the compartment where there are fewer wetlands. No current mineral leasing activity exists in the area. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

The compartment is located just a few miles north of Newberry, stretching from “5 Mile Corner” westerly to “8 Mile Corner”. M-123 runs through the eastern reaches of the compartment while County Road 407 runs along the southern edge of the western 2/3 of the compartment. An extensive network of forest roads (two track dirt roads) transects the compartment providing ample vehicle access. Several abandoned/closed used for past timber sales are also found throughout the area. Silver Creek ORV trails also runs through the western portion of the compartment.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

The only designated recreational facility is the Silver Creek ORV Trail which transects the western half of the compartment. Other recreational opportunities would include hunting, ORV riding, snowmobiling and wildlife viewing.

**Fire Protection:**

There is little is minimal potential for large fire runs. The limited and scattered pine fuel types are surrounded by road access and often deciduous forest types. Suppression vehicle access is very good throughout the compartment. There is low risk to private property surround the compartment because of the upland cover types. The close proximity to Newberry also reduces the risk for large wildfires due to the short response time.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

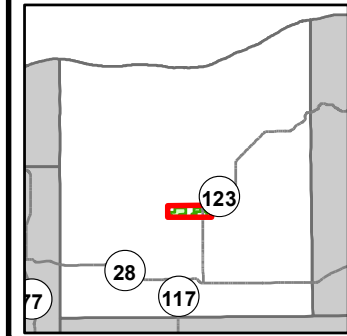
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

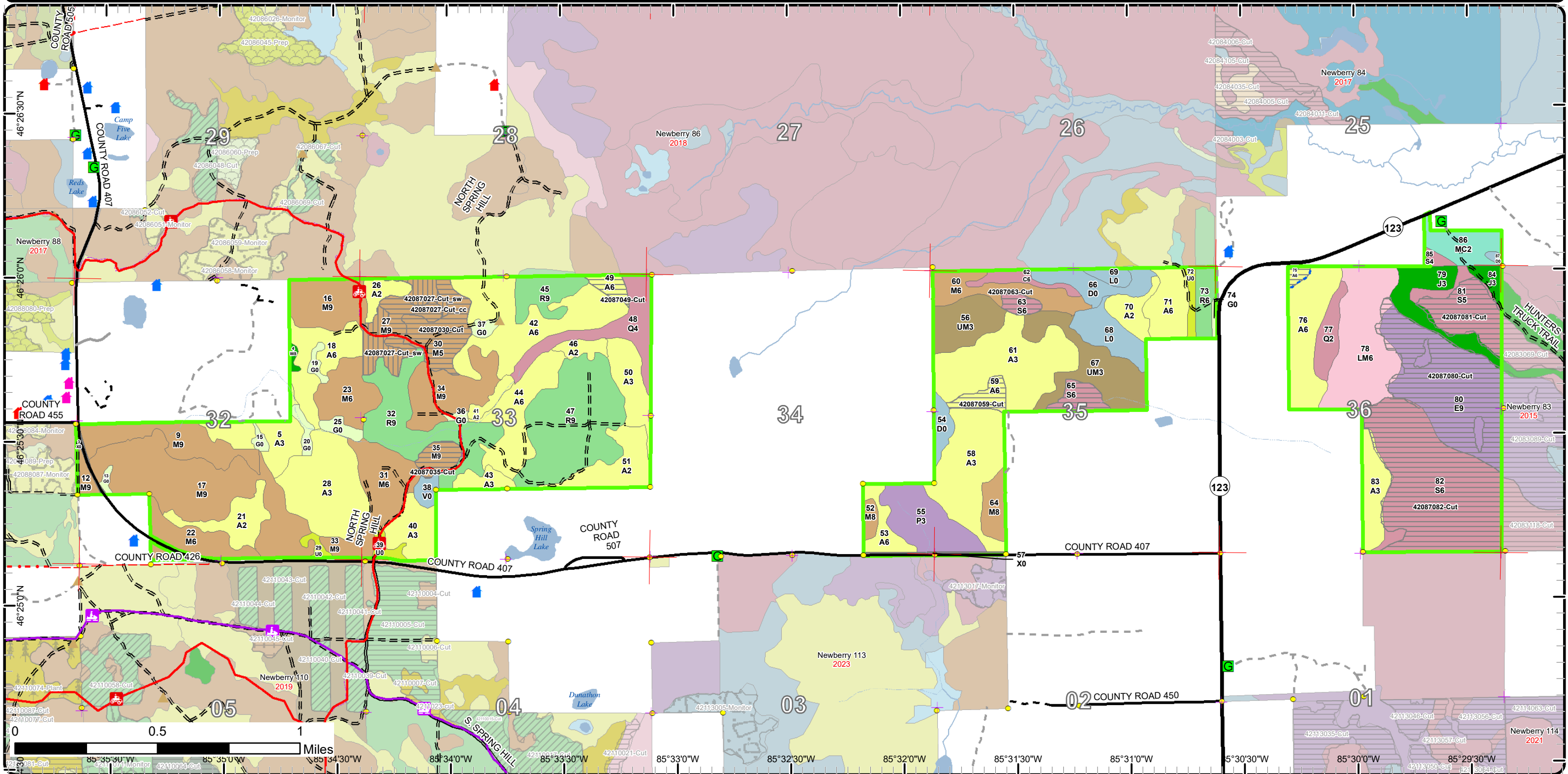
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 87  
 T47N, R10W, Sec. 25, 32-36  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: 8 Mile Corner  
 YOE: 2022  
 Acres: 1690 GIS Calculated  
 Examiner: Jacob Kriehn  
 Map Revised: 1/25/2021  
 Map Phase: Post-Review



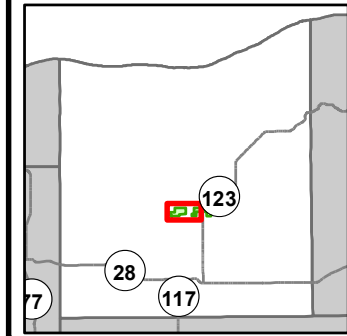
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
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- County - Gravel Road
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- Private - Paved Road
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- Designated ATV
- 🏠 House
- 🏠 Structure, Seasonal Dwelling
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- 🌊 Lakes and Rivers
- Non-Designated Recreational Trail
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



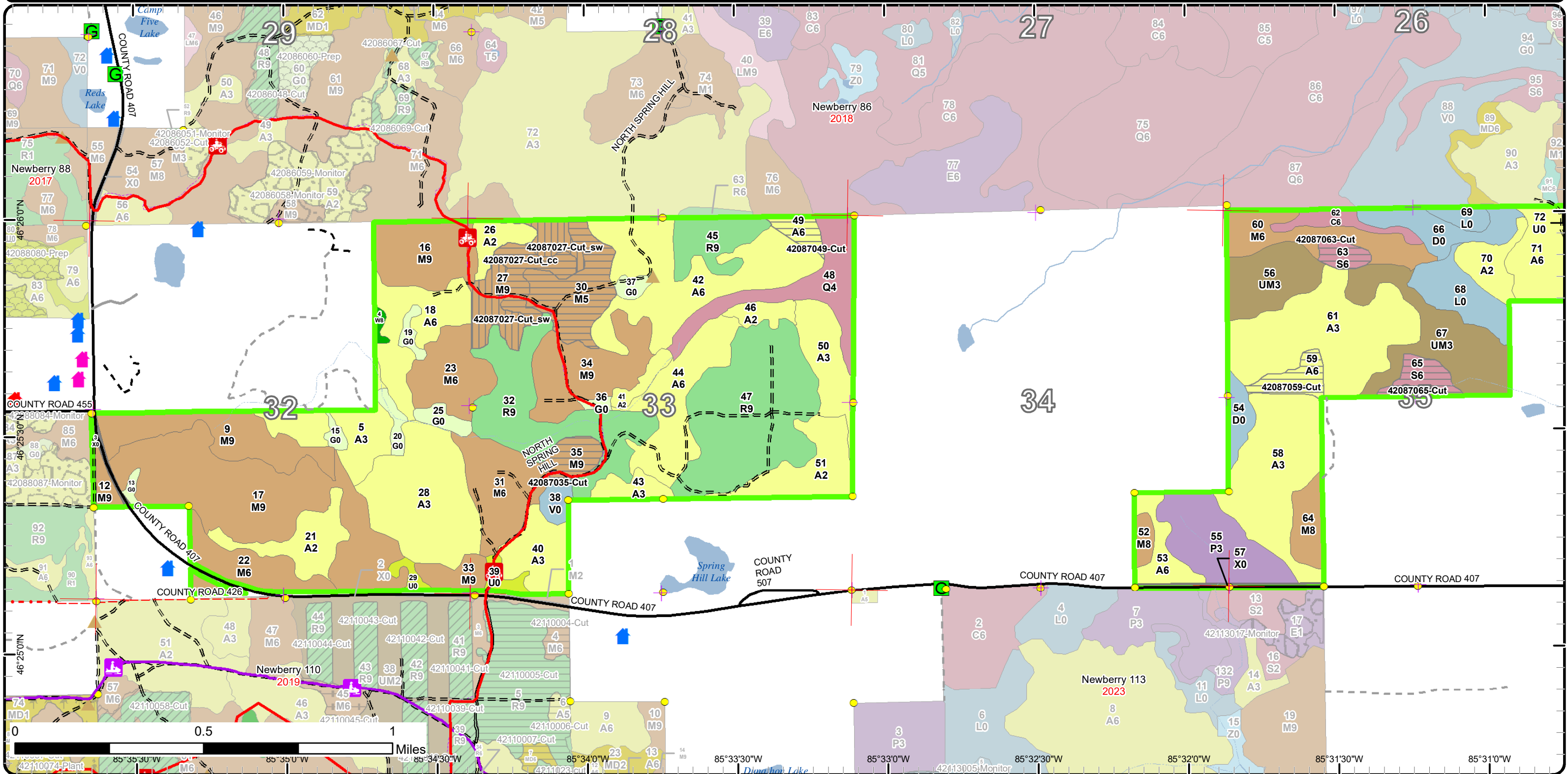


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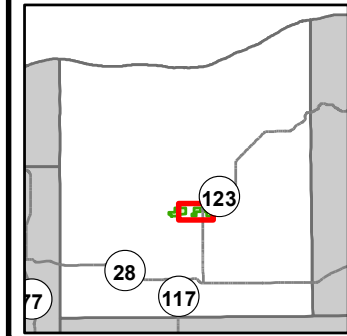


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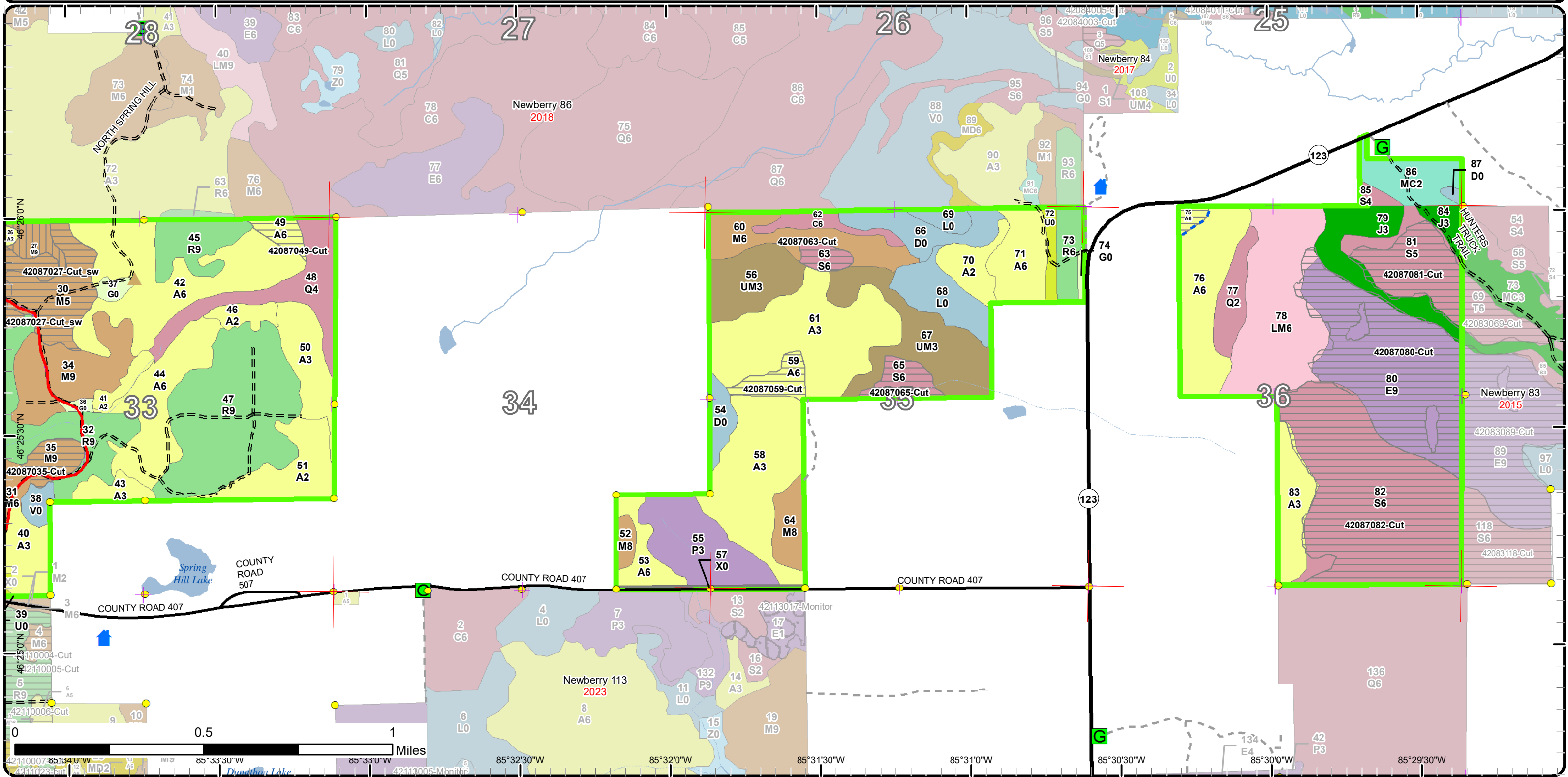


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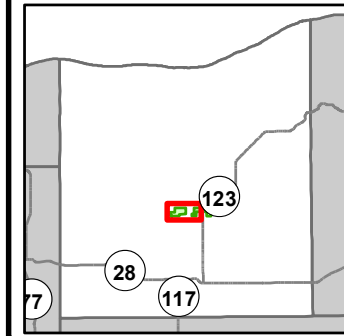
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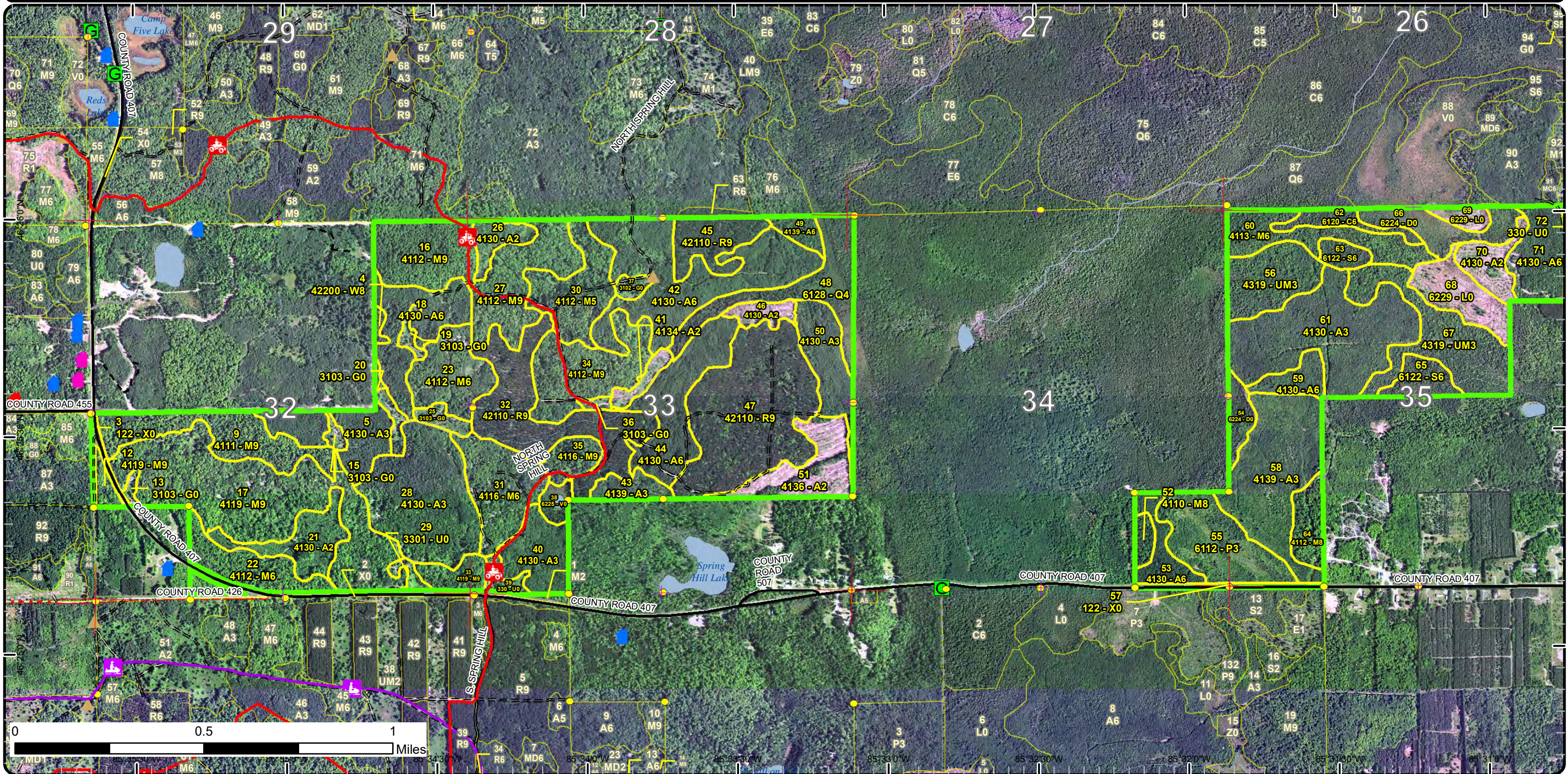


# Stand Boundary Map

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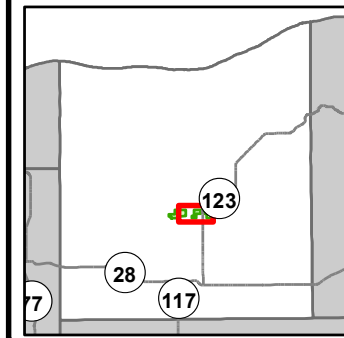
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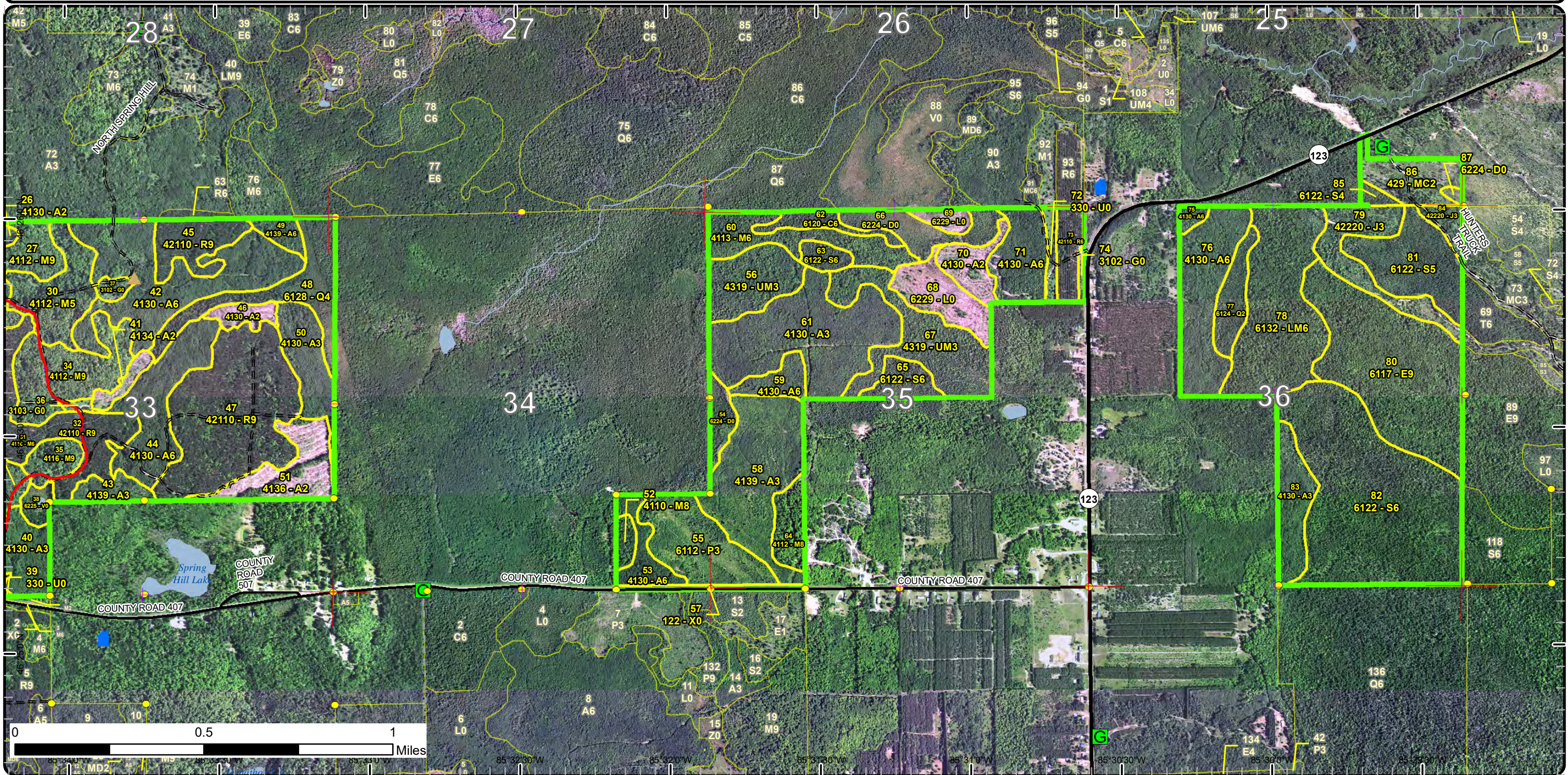


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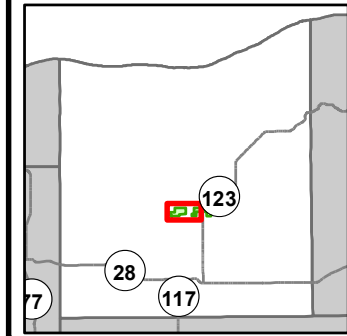
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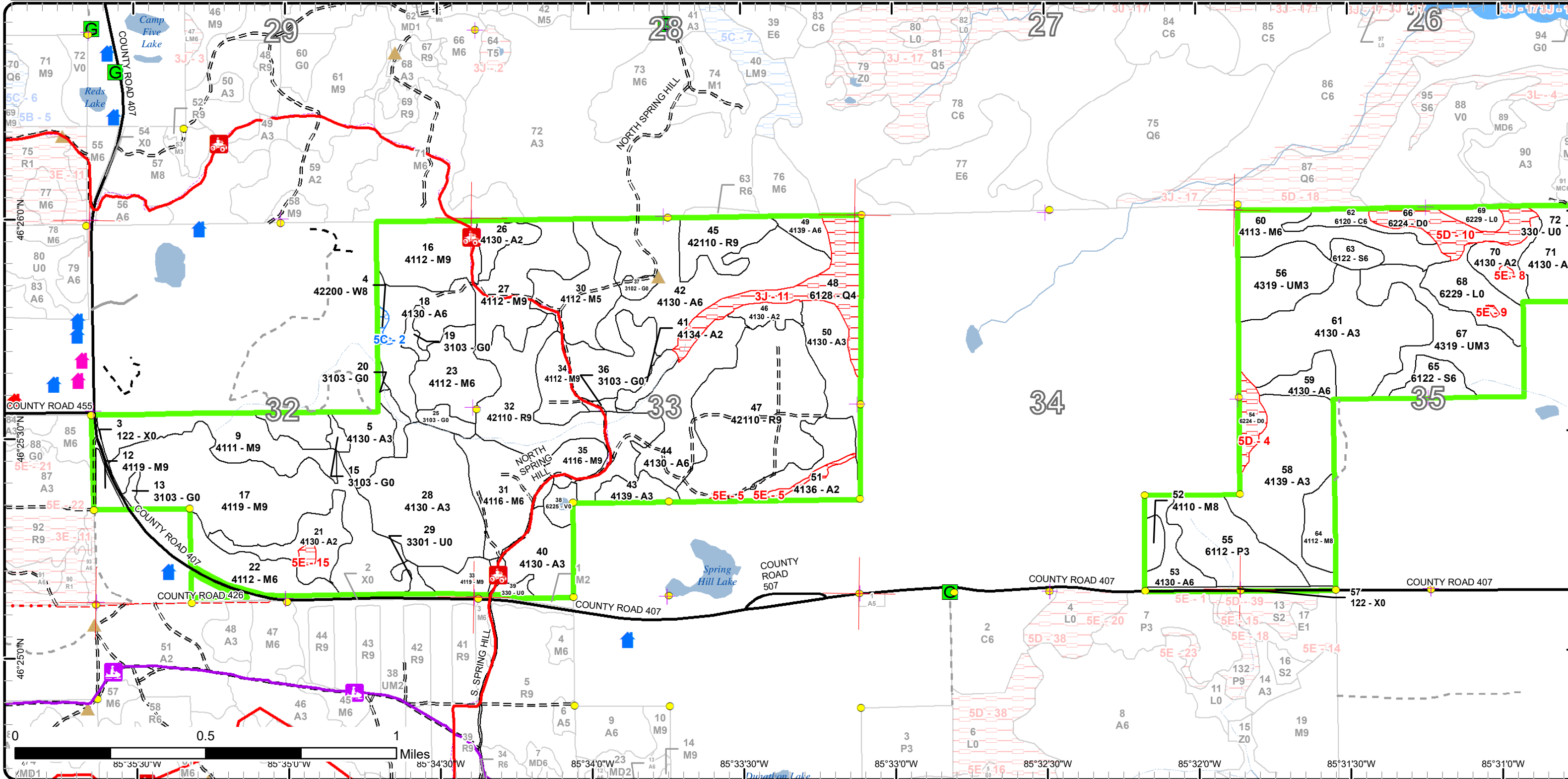


# Special Conservation Areas

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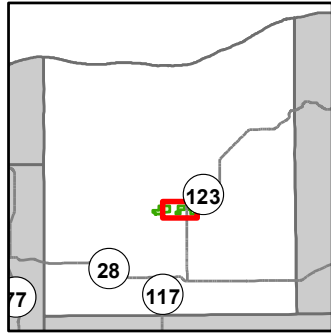
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



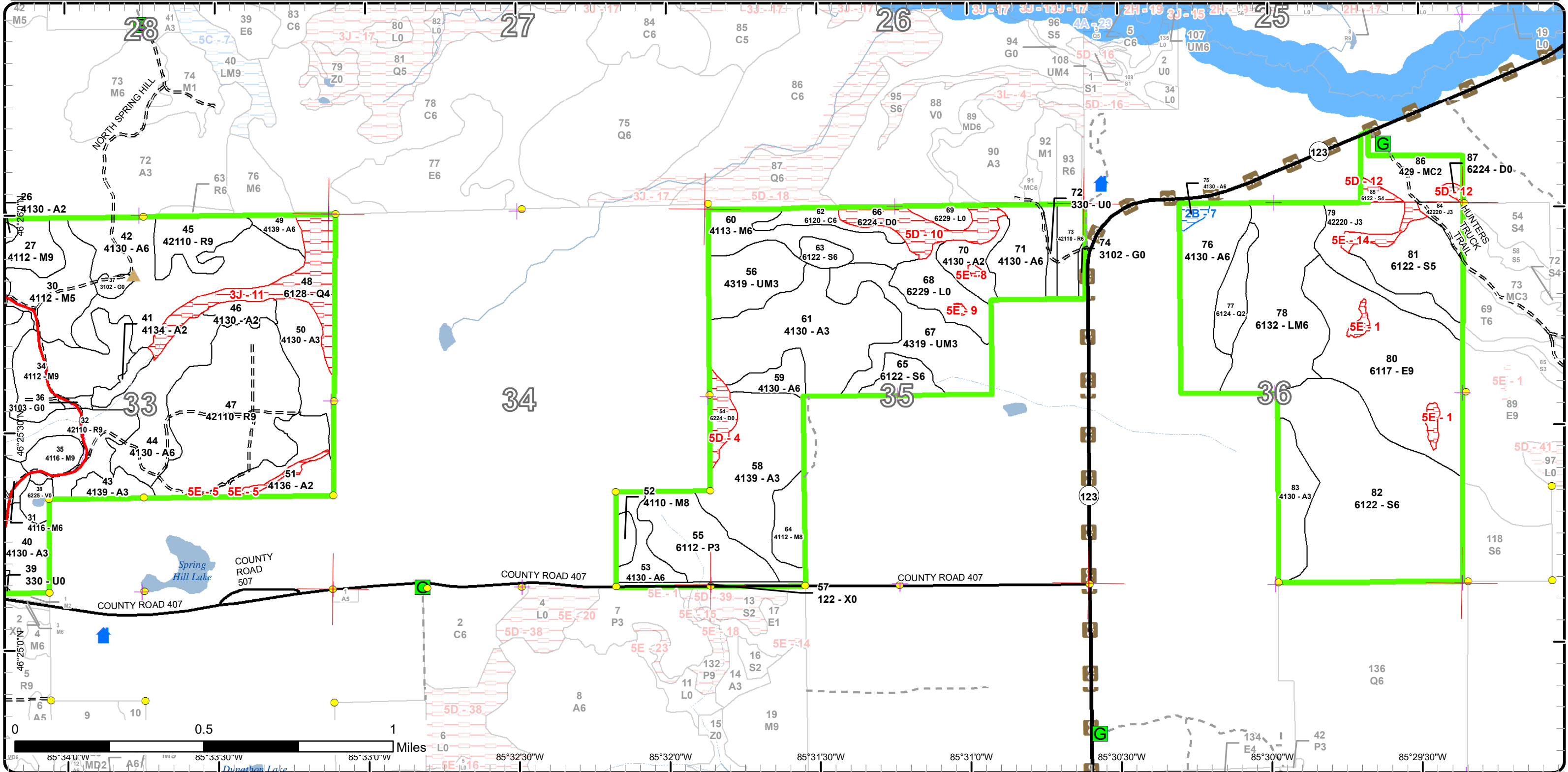


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- Non-Designated Recreational Trail
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- State Heritage Routes-Scenic (MDOT Designation)
- Cold Water Streams
- High Priority Trout Stream Buffer





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

Newberry Mgt. Unit

Compartment 87

Year of Entry 2022

Jacob Kriehn : Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	75	59	180	205	11	15	0	0	0	3	0	0	0	0	0	0	0	548
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Jack Pine	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Conifers	0	0	0	0	13	0	30	0	0	0	0	0	0	0	0	0	0	0	43
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	84	0	0	0	0	0	0	0	84
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	62
Lowland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Spruce/Fir	0	0	0	0	0	0	0	3	0	0	163	0	0	0	0	0	0	0	165
Northern Hardwood	0	0	0	0	53	0	0	9	114	40	135	32	0	0	0	0	0	0	383
Red Pine	0	0	0	0	0	0	10	145	0	0	0	0	0	0	0	0	0	0	155
Treed Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Upland Conifers	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Mixed Forest	0	0	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
<b>Total</b>	<b>95</b>	<b>75</b>	<b>110</b>	<b>210</b>	<b>335</b>	<b>11</b>	<b>55</b>	<b>157</b>	<b>114</b>	<b>48</b>	<b>385</b>	<b>96</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1690</b>





## Report 2 – Treatment Summary

**Newberry Mgt. Unit**  
**Year of Entry: 2022**

**Acres of Harvest**

**Compartment 87**  
**Total Compartment Acres: 1,690**

Commercial Harvest - 322  
 Harvests with Site Condition - 3  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	17	0	0	0	0	0	0	0	0	17
Lowland Deciduous	83	0	0	0	0	0	0	0	0	83
Lowland Spruce/Fir	156	0	0	0	0	0	0	0	0	156
Northern Hardwood	49	0	0	0	20	0	0	0	0	69
<b>Total</b>	<b>305</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	325	0	0	0	0	0	0	0	0	325
Next Step	0	0	0	0	0	0	325	0	0	325
<b>Total</b>	<b>325</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>325</b>	<b>0</b>	<b>0</b>	<b>650</b>





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>27</b>	<b>42087027-Cut_cc</b>	12.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	96	111-140	Harvest	Clearcut with Retention	4112 - Maple, Beech, Cherry Association	Even-Aged	No
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Prescription Clearcut with retention of 3-5%. Leave 1-2 per acre of each of the following: yellow birch, white pine, and red pine where present.  
Specs:  
Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:  
Acceptable Regen: Red maple, sugar maple, birch, black cherry  
Other Comment:  
Site Condition  
Proposed Start Date: 10/1 /2021

<b>27</b>	<b>42087027-Cut_sw</b>	20.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	96	111-140	Harvest	Shelterwood with Retention	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
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Prescription Thin stand via shelterwood. Residual BA should be 40-50.  
Specs:  
Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:  
Acceptable Regen: Red maple, sugar maple, birch, black cherry  
Other Comment: Watch for top dieback.  
 Road access will be the atv trail to the south that runs through the compartment, it will need some work for logging operations.  
Site Condition  
Proposed Start Date: 10/1 /2021

<b>30</b>	<b>42087030-Cut</b>	26.7	4112 - Maple, Beech, Cherry Association	Poletimber Medium	86	81-110	Harvest	Clearcut with Retention	4112 - Maple, Beech, Cherry Association	Even-Aged	No
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Prescription Clearcut with retention of 3-5%. Leave 1-2 per acre of each of the following: yellow birch, white pine, and red pine where present.  
Specs:  
Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:  
Acceptable Regen: Maple, beech, cherry, birch, white pine, red pine.  
Other Comment:  
Site Condition  
Proposed Start Date: 10/1 /2021





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	Habitat Cut
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35	42087035-Cut	9.1	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	67	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut. No retention due to small acreage. Include stand diversity in red line.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, red maple, sugar maple  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

49	42087049-Cut	5.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	52	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut all species. Leave super canopy White Pine. No retention due to small acreage.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)  <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, red maple, sugar maple, white pine.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

59	42087059-Cut	9.0	4130 - Aspen	Poletimber Well	52	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut, no retention due to small acreage. Leave diverse (mature) species in the red line, especially mature aspen where it exists.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)  <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen  <u>Regen:</u> Red Maple</p> <p><u>Other</u> May need a survey. Could easily cut off the little piece that touches private land.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

63	42087063-Cut	5.5	6122 - Black Spruce	Poletimber Well	98	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clear cut. No retention due to small acreage. Will need to be a winter cut due to wet ground.  <u>Specs:</u>  Possible access through the aspen stand to the south.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)  <u>Treatments:</u></p> <p><u>Acceptable</u> Black spruce, white spruce, cedar.  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>65</b>	<b>42087065-Cut</b>	9.9	6122 - Black Spruce	Poletimber Well	98		Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
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Prescription Clear Cut. No Retention due to small acreage.  
Specs:  
Next Step ; Monitoring, Natural Regen (Re-Inventory)  
Treatments:  
Acceptable Black Spruce  
Regen: White Spruce  
Other  
Comment:  
Site Condition  
Proposed Start Date: 10/1 /2021

<b>75</b>	<b>42087075-Cut</b>	2.7	4130 - Aspen	Poletimber Well	93	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clear Cut. No retention due to small acreage.  
Specs:  
Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:  
Acceptable Aspen  
Regen: Red Maple  
Other  
Comment:  
Site Condition Unknown Access  
Proposed Start Date: 10/1 /2021

<b>80</b>	<b>42087080-Cut</b>	83.4	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	96		Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Cut all species except white pine, red pine and hemlock. Leave some mature non-pine scattered and within retention patches.  
Specs:  
Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:  
Acceptable Acceptable regen includes maple, birch, spruce, fir, aspen, pine.  
Regen:  
Other Will have to find best access from ridge tops. Include stand in compartment to the east (C-83, std 89). Old next step comments: Regen  
Comment: check per Work Instructions. Acceptable regen includes maple, birch, spruce, fir, aspen, pine.  
Site Condition  
Proposed Start Date: 10/1 /2014

<b>81</b>	<b>42087081-Cut</b>	27.8	6122 - Black Spruce	Poletimber Medium	91	Unspecified	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Cut all species except white pine and red pine.  
Specs:  
Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:  
Acceptable Acceptable regen includes spruce, tamarack, jack pine, white pine and red pine.  
Regen:  
Other Will have to find best access from ridge tops. Include stand in compartment to the east (C-83, std 69). Old next step comments: Regen  
Comment: check per Work Instructions. Acceptable regen includes spruce, tamarack, jack pine, white pine and red pine.  
Site Condition  
Proposed Start Date: 10/1 /2014





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
82 42087082-Cut	112.3	6122 - Black Spruce	Poletimber Well	91	Unspecified	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all species except white pine and hemlock.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Acceptable regen includes spruce, tamarack, aspen, birch, maple and white pine.  <u>Other Comment:</u> Include stand in compartment to the west (C-83, std 118). Old next step comments: Regen check per Work Instructions. Acceptable regen includes spruce, tamarack, aspen, birch, maple and white pine.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2014</p>										

**Total Treatment** 325.2  
**Acreage Proposed:**



# Report 4 – Site Conditions

Newberry Mgt. Unit  
Jacob Kriehn : Examiner

Compartment: 87  
Year of Entry: 2022



### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2B	5C	3J	5D	5E
548	541	3	5	Aspen	3		0		5
5	5	0	0	Bog					
8	8	0	0	Cedar					
21	21	0	0	Herbaceous Openland					
30	30	0	0	Jack Pine					
12	12	0	0	Low-Density Trees					
33	33	0	0	Lowland Aspen/Balsam Poplar					
42	13	0	29	Lowland Conifers			29		
84	80	0	4	Lowland Deciduous					4
62	62	0	0	Lowland Mixed Forest					
24	24	0	0	Lowland Shrub					0
166	158	0	7	Lowland Spruce/Fir				3	5
382	382	0	0	Northern Hardwood					
155	155	0	0	Red Pine					
26	0	0	26	Treed Bog				26	
18	18	0	0	Upland Conifers					
64	64	0	0	Upland Mixed Forest					
7	7	0	0	Urban					
2	0	2	0	White Pine		2			
1,690	1,614	4	72	Total Forested Acres	3	2	29	29	14
	96%	0%	4%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
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2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	5D: Unproductive Forest Land	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Available	2B: Unknown if access through adjacent landowner(s) is possible	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Jacob Kriehn : Examiner

Compartment: 87  
Year of Entry: 2022



10	Unavailable	5D: Unproductive Forest Land	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5D: Unproductive Forest Land	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	5E: Long-Term Retention	1	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
<b>Comments</b>				



## 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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
3	122 - Road/Parking Lot	Nonstocked	3.3			No																																																						
4	42200 - Natural White Pine	Sawtimber Medium	1.5	106	51-80	N/A	Stand was cut as part of sale #010-03-01, along with adjacent stand. Residual white pine BA high enough to separate into another stand. Aspen and maple removed. Stand was harvested to regenerate aspen.																																																					
5	4130 - Aspen	Sapling Well	23.3	28	Unspecified	N/A	Young aspen. Some diameters reaching the merchantable size class. Cut as sale #30-92-01 in 1993.																																																					
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9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	31.7	101	51-80	N/A	Stand was harvested as part of Bear Ranch Mix (42-10-03). Sale completed 11/01/2004.  Hard maple with beech and red maple. Component of Yellow birch, alot of which is dead. Trace of balsam, black cherry and aspen. Pockets with more red maple and quality decreases. Scattered large DBH aspen. Lots of beech coming up in the understory. Some of the beech in the canopy looks okay, some is deteriorating.  There is good regen in the canopy gaps as well as under the canopy. Primarily beech regen coming in with some red maple and sugar maple.																																																					
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12	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.0	89	81-110	N/A																																																						
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13	3103 - Rubus-Fern	Nonstocked	1.7			No	Some red maple and cherry coming in near the road.																																																					
15	3103 - Rubus-Fern	Nonstocked	2.1			No																																																						
16	4112 - Maple, Beech, Cherry Association	Sawtimber Well	28.6	99	81-110	N/A	Stand was cut via selection harvest as part of timber sale McDermon Mix (42-055-12) in 2013.  Nice large diameter maple stand. Sugar maple with red maple and beech. Some yellow birch. Also some aspen scattered. BA is about 80 to 90.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
17	4119 - Mixed Northern Hardwoods	Sawtimber Well	89.9	71	81-110	N/A	Variable stand. Numerous species present, age class diversity within stand. Small open areas, pockets of younger timber. Lots of structural diversity. Basal areas vary, some areas higher than others, roughly 80. Good maple regen.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		45	Log/Pole	10	71	Red Maple		
Red Maple		20	Log/Pole	11		Yellow Birch		
Yellow Birch		3	Pole	9		Beech		
Beech		5	Log	12		Balsam Fir		
Paper Birch		5	Pole	8		White Pine		
Quaking Aspen		10	Log	11				
Balsam Fir		5	Log/Pole	10				
White Pine		2	Log/Pole	12				
Black Cherry		5	Pole	8				
18	4130 - Aspen	Poletimber Well	28.2	38		N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Pole/Sapling	5		Red Maple		
Paper Birch		2	Sapling	4		Balsam Fir		
Quaking Aspen		75	Pole	6	38	Black Cherry		
Balsam Fir		3	Sapling	3				
Black Cherry		10	Sapling	4				
19	3103 - Rubus-Fern	Nonstocked	2.9			No		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
Black Cherry		Medium		Sapling				
White Pine		Trace		Seeding				
20	3103 - Rubus-Fern	Nonstocked	3.9			No		
21	4130 - Aspen	Sapling Medium	18.8	8	Immature	N/A	Stand was cut as part of McDermon Mix (42-055-12). Retention pocket was left near the center of the stand.  Good aspen regen coming in.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Quaking Aspen		80	Sapling	1	8			
Red Maple		10	Sapling	1	8			
Balsam Fir		10	Sapling	1	8			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**22** 4112 - Maple, Beech, Cherry Association Poletimber Well 22.7 96 51-80 N/A Portion of stand between county roads was not harvested with the rest of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	20	Pole	7		Red Maple	Low	< 5 feet	Sapling
Red Maple	40	Pole/Log	9	96	Beech	High	5 - 10 feet	Sapling
Yellow Birch	2	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Beech	32	Log/Pole	10	99				
Paper Birch	2	Pole	7					
Black Cherry	4	Pole	8					

**23** 4112 - Maple, Beech, Cherry Association Poletimber Well 24.2 38 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole/Sapling	6	38	Red Maple	High	10 - 20 feet	Sapling
Quaking Aspen	18	Pole/Sapling	6		Beech	Medium	Variable	Sapling
Balsam Fir	2	Pole	7		Balsam Fir	Medium	Variable	Sapling
Black Cherry	30	Sapling	4		Black Cherry	Medium	10 - 20 feet	Sapling

**25** 3103 - Rubus-Fern Nonstocked 4.5 No

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace		Seeding
Black Cherry	Medium		Sapling

**26** 4130 - Aspen Sapling Medium 8.3 8 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Sapling	1	8
White Pine	5	Log	14	
Red Maple	10	Sapling	1	
Balsam Fir	5	Sapling	1	

White pine greater than 12" dbh were left during harvest. Stand was cut as part of McDermion Mix (42-055-12) in 2013.

Regen Check - Stand is fully stocked. Very good aspen regen coming in with some maple scattered.

**27** 4112 - Maple, Beech, Cherry Association Sawtimber Well 33.2 96 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	10		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	80	Log/Pole	10	96	Yellow Birch	Low	10 - 20 feet	Sapling
Beech	5	Log	11		Beech	Medium	10 - 20 feet	Sapling
Yellow Birch	1	Log/Pole	10		Balsam Fir	Full	10 - 20 feet	Sapling

Basal Area is about 110 to 120. The maple diameters vary in this stand. There are areas with larger diameters and pockets of smaller diameters. There are pockets of thick balsam that are merchantable. There are also some scattered aspen. Poor quality red maple with lots of top dieback.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
28	4130 - Aspen	Sapling Well	54.0	37	1-50	N/A	Last harvested in 1984, sale #19-82-01. Nice aspen stand.																																																									
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29	3301 - Low Density Deciduous Trees	Nonstocked	2.8			No																																																										
30	4112 - Maple, Beech, Cherry Association	Poletimber Medium	26.7	86	81-110	N/A	Open grown red maple stand. Clumps of red maple. Beech dying out of stand. Dieback throughout the stand.																																																									
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31	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	28.8	37	1-50	N/A	Harvested in 1984 as sale #19-82-01. Mostly red maple and cherry with a good component of aspen. A trace of yellow birch as well.																																																									
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32	42110 - Planted Red Pine	Sawtimber Well	51.2	65	111-140	N/A	Planted in 1959. Thinned in 2004 (sale #018-02-01). Second thinning in 2013 (009-12-01).Some blowdown from winter storm.																																																									
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<b>33</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.6	88	1-50	N/A																																																																									
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<b>37</b>	3102 - Grass	Nonstocked	3.1			No																																																																									
<b>38</b>	6225 - Bog	Nonstocked	4.9			No																																																																									
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<b>40</b>	4130 - Aspen	Sapling Well	19.8	28	Immature	N/A	Young aspen. Harvested in 1993.																																																		
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<b>41</b>	4134 - Aspen, Spruce/Fir	Sapling Medium	5.0	6	Immature	N/A	Stand was harvested as sale #42-012-12-01, Spring Hill Aspen. Completed 07/21/2016.  Good aspen regen with some balsam and red maple scattered throughout.																																																		
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<b>42</b>	4130 - Aspen	Poletimber Well	61.5	29	Immature	N/A	A3, young aspen. Cut in 1992, sale #27-92-01 and 06-92-01. Ravines running through stand to the south.																																																		
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<b>43</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	7.5	17		N/A	Harvested in 2004 (018-02-01). Red and white pine left as residual.																																																		
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<b>44</b>	4130 - Aspen	Poletimber Well	34.6	29	Immature	N/A	Stand harvested in 1992 (sale #028-92-01). Young aspen. White birch component mainly along road edges and old skid trails.																																																		
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<b>45</b>	42110 - Planted Red Pine	Sawtimber Well	17.7	65	141-170	N/A	Red Pine plantation. Planted in 1959. Thinned in 2004 (018-02-01). Small component of red maple. Second thinning in 2013 (009-12-01).Avg dbh abt 11																																											
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<b>46</b>	4130 - Aspen	Sapling Medium	6.2	6	Immature	N/A	Stand harvested as sale #42-012-12-01, Spring Hill Aspen. Completed 07/21/2016.																																											
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<b>47</b>	42110 - Planted Red Pine	Sawtimber Well	76.0	62	111-140	N/A	Planted in 1959. Thinned in 2004 (sale 018-02-01). Some sawfly and porcupine damage. Pockets of aspen regeneration from 2004 harvest. Second thinning in 2013 (009-12-01).																																											
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<b>48</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	29.5	59	1-50	N/A	Previously typed as an "L" stand. More of a open grown lowland conifer stand with many open areas. Very wet.																																											
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<b>49</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	5.6	52	Unspecified	N/A	Aspen stand with northern hardwoods. Pockets of larger diameter aspen. Component of super canopy white pine.																																											
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<b>50</b>	4130 - Aspen	Sapling Well	20.7	27	Immature	N/A	Harvested in 1994, sale #034-94-01. Young aspen.																																										
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<b>51</b>	4136 - Aspen, Mixed Conifer	Sapling Medium	25.0	6	Immature	N/A	Stand harvested as Spring Hill Aspen, sale #42-012-12-01. Completed 07/21/2016.																																										
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<b>52</b>	4110 - Sugar Maple Association	Sawtimber Medium	4.2	95	81-110	N/A	Thinned by selection harvest in 2005, sale #11-03-01.																																										
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<b>53</b>	4130 - Aspen	Poletimber Well	11.3	45	51-80	N/A	Healthy aspen stand with good conifer component.																																										
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<b>54</b>	6224 - Treed Bog	Nonstocked	7.5			No																																											





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**55** 6112 - Lowland Aspen Sapling Well 33.1 16 Immature N/A

Harvested as sale #11-03-01. Cut in 2005. Lots of variability to the stand, very diverse.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	13	Sapling/Pole	2		Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	65	Sapling	2	16	Quaking Aspen	High	5 - 10 feet	Sapling
Balsam Fir	5	Sapling	2		Balsam Fir	Low	5 - 10 feet	Sapling
White Spruce	10	Sapling/Pole	2		Black Spruce	Low	5 - 10 feet	Sapling
Tamarack	2	Sapling	2					
White Pine	2	Log/Pole	10					
Black Cherry	3	Sapling	2					

**56** 4319 - Mixed Upland Forest Sapling Well 24.0 35 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Sapling	7		Red Maple	Medium	< 5 feet	Sapling
Paper Birch	5	Sapling	3		Balsam Fir	Full	< 5 feet	Sapling
Quaking Aspen	15	Sapling	3		White Spruce	Low	< 5 feet	Sapling
Balsam Fir	50	Sapling/Pole	4	35				

**57** 122 - Road/Parking Lot Nonstocked 4.0 No

**58** 4139 - Aspen, Mixed Deciduous Sapling Well 51.7 16 Unspecified N/A

Harvested in 2005, sale #11-03-01. Good aspen and red maple regeneration along with some balsam and white birch. Light component (trace) of spruce and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	2		Red Maple	High	< 5 feet	Sapling
Paper Birch	5	Sapling	2		Quaking Aspen	Medium	< 5 feet	Sapling
Quaking Aspen	55	Sapling	2	16	Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	5	Sapling	2					
Black Cherry	20	Sapling	2					

**59** 4130 - Aspen Poletimber Well 9.0 52 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	9		Red Maple	High	10 - 20 feet	Sapling
Yellow Birch	5	Log/Pole	11		Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Pole/Log	9		White Spruce	Low	10 - 20 feet	Sapling
Quaking Aspen	70	Log/Pole	10	52				
Black Cherry	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
<b>60</b>	4113 - R.Maple, Conifer	Poletimber Well	24.5	76	81-110	N/A	Stand previously had a 5F site condition.																																											
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<b>61</b>	4130 - Aspen	Sapling Well	64.2	35	Unspecified	N/A	Stand harvested in 1986, sale #55-83-01. Good aspen regeneration with a component of red maple, cherry and balsam. Occasional white birch.																																											
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<b>62</b>	6120 - Lowland Cedar	Poletimber Well	7.9	88	1-50	N/A	Lowland conifer stand, high component of cedar.																																											
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<b>63</b>	6122 - Black Spruce	Poletimber Well	5.5	98	81-110	N/A																																												
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<b>64</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	11.5	95	81-110	N/A	Nice maple stand with lots of maple and aspen in the under story. Stand is close to being ready to harvest this YOY.																																											
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<b>65</b>	6122 - Black Spruce	Poletimber Well	9.9	98		N/A																																												





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
66	6224 - Treed Bog	Nonstocked	17.4			No						
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Spruce	Medium		Sapling	
								Tamarack	Low		Sapling	
								Northern White Cedar	Medium		Sapling	
Paper Birch	Low		Sapling									
67	4319 - Mixed Upland Forest	Sapling Well	39.7	35	51-80	N/A						
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Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	< 5 feet	Sapling									
Balsam Fir	Full	< 5 feet	Sapling									
White Spruce	Low	< 5 feet	Sapling									
68	6229 - Mixed lowland shrub	Nonstocked	19.2	0	Unspecified	6122 - Black Spruce	Stand was harvested as sale #42-008-12-01, Five Mile Mix. Completed 07/21/2016.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Spruce	Medium	5 - 10 feet	Sapling	
Red Maple	Medium	5 - 10 feet	Sapling									
							Moderate regen. Regen looks healthy but doesn't have great coverage yet.					
69	6229 - Mixed lowland shrub	Nonstocked	4.9	0	Unspecified	612 - Lowland Coniferous Forest	Somewhat patchy regen growing in. Should fill in over time. Will grow into black spruce with scattered red maple and balsam. May have some cedar along the edges of the stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Spruce	Medium	< 5 feet	Sapling	
								Balsam Fir	Low	< 5 feet	Sapling	
Red Maple	Low	< 5 feet	Sapling									
70	4130 - Aspen	Sapling Medium	12.0	6	Immature	N/A	Stand was harvested as sale #42-008-12-01, Final Harvest Mix. Completed 07/21/2016.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Sapling	1	
								Paper Birch	10	Sapling	1	
								Quaking Aspen	70	Sapling	1	6
								Balsam Fir	5	Sapling	1	
White Spruce	10	Sapling	2									
							Good Re-gen coming up.					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
<b>71</b>	4130 - Aspen	Poletimber Well	20.7	38		N/A	Harvested in 1983. Young aspen, beginning to transition from an A3 to an A6. Old roads growing in with saplings.																																																							
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<b>72</b>	330 - Low-Density Trees	Nonstocked	4.6			No	Small diameter aspen in the central part of the stand.																																																							
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<b>73</b>	42110 - Planted Red Pine	Poletimber Well	10.3	51	141-170	N/A	Planted in 1970. Planted on an 8x10 spacing. Old notes state the plantation had red headed pine sawfly damage as a young plantation. Stand was thinned as sale #42-008-12-01, Five Mile Mix. Completed 07/21/2016. Pocket of Aspen in the middle.																																																							
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<b>74</b>	3102 - Grass	Nonstocked	1.6		Unspecified	No																																																								
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<b>77</b>	6124 - Lowland Spruce-Fir	Sapling Medium	12.6	37	Unspecified	N/A	Stand harvested in 1884 as sale #22-83-01. Lowland conifer regeneration.																																																								
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<b>78</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	62.2	106	111-140	N/A																																																									
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<b>79</b>	42220 - Natural Jack Pine	Sapling Well	24.6	23	Immature	N/A	Ridge of young jack pine with aspen.																																																								
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<b>80</b>	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	84.3	96		N/A	Low ground red maple and birch with cedar and spruce. Stand is currently under contract to be cut as part of Hunters Trail Lowland sale number 42-017-15.																																																								
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<b>81</b>	6122 - Black Spruce	Poletimber Medium	32.3	91	Unspecified	N/A	Stand is currently under contract to be cut as part of Hunters Trail Lowland sale number 42-017-15. Northern portion of the stand left as retention.																																																								
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<b>82</b>	6122 - Black Spruce	Poletimber Well	115.1	91	Unspecified	N/A	Black spruce stand with a heavy lowland conifer component. Pockets of lowland aspen with red maple, white birch and balsam. Some blowdown.  Stand is currently under contract to be cut as part of Hunters Trail Lowland sale number 42-017-15.																																																								
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<b>83</b>	4130 - Aspen	Sapling Well	19.7	26	Immature	N/A	Thick aspen regeneration 25-30 ft tall. East side of the stand has more cherry, spruce, balsam and red maple.....more of a P3/M3.																																																								
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<b>84</b>	42220 - Natural Jack Pine	Sapling Well	5.7	23	Immature	N/A	Ridge of Jack pine and aspen																																																								
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<b>85</b>	6122 - Black Spruce	Poletimber Poor	2.8	61	51-80	N/A	Trees are sparse in some areas. Possibly harvestable with the right winter.																																																								
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<b>86</b>	429 - Mixed Upland Conifers	Sapling Medium	18.3	10	Immature	N/A	<p>OPIC - FMD: Stand is mostly a jack pine/spruce mix. RP/WP mixed in with some aspen, p.birch. There are upland sand ridges and lowland swales. JP on high ground, spruce in lower ground. Old roads with the stand. If treated, cut JP, spruce, aspen and birch, leave RP/WP, may have to mark some of it to operate in stand. Would be best to use the existing road leading through the PVT land. Trash in this stand along the woods road, an old bus, refrigerators, wash machine, etc. Soil=Rousseau/Spot complex. Timber that was cut to the south of this stand on PVT land has excellent regeneration of JP, aspen and spruce.</p> <p>Stand harvested as sale #022-07-01, Big Curve Mix. Completed 05/18/11. Cultural work yet to be done as of 07/18/2011. Regeneration check needed in 2015.</p>																																													
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<b>87</b>	6224 - Treed Bog	Nonstocked	1.2			No																																														