



# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42047

Entry Year 2023

Acreage: 2,261

County Luce

Management Area: Charcoal Grade

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**Revision Date:** 2021-12-29

**Stand Examiner:** Lester Livermore

**Legal Description:**

T48N R8W Sections 4, 5, 7-10

**Identified Planning Goals:**

Maintain or enhance the forest health, productivity, and diversity of the area through proper management. Enhance age class diversity and ensure sustainability in the forest cover types as well as improve the quality of wildlife habitat through continued timber harvest treatments. Aspen management will continue with the current sustainable level of management to promote both age class and structural diversity.

**Soil and topography:**

The dominant soil types in the eastern reaches of the compartment are Carbondale, Lupton and Tawas mucks, Markey mucky peat, and Dawson, Greenwood and Loxley peats. Associated cover types of cedar, swamp conifer, and lowland brush. Along M-123 and in the western and northern portions of the compartment, soil types of Bodi-Chesborough silt loam, Bodi silt loam, Auger silt loam, and minor areas of Wallace sand support the cover types of aspen, northern hardwoods and hemlock and white pine. The topography is mostly level to slightly rolling, with slight to steep topographical changes in the northern reaches of the compartment.

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

The compartment is comprised almost entirely of State land with a couple of interior private parcels. State land borders the compartment to the north, south, and west. Tahquamenon Falls State Park is adjacent to the compartment to the east. Development in and around the compartment is low due to the large amount of State land in the vicinity. Several small camps are located around the compartment boundary, particularly along the Tahquamenon River. The main types of land use in the area are hunting, fishing, ORV and snowmobile riding.

**Unique Natural Features:**

MNFI lists the potential for rare plants of rich mesic forests: assiniboia sedge, showy orchis, ginseng, and goblin fern. Potential for English sundew, northern prostrate clubmoss, small yellow pond lily, lake cress, alternate-leaved water-milfoil, American shore-grass, moor rush, alga pondweed, meadow beauty and panicked screw-stem along shorelines, bogs and marshes. Potential for red-shouldered hawk, goshawk, merlin, great blue heron rookery, eagle, and osprey. Potential for incurvate emerald, ebony boghaunter, Frigga fritallry, and Freija fritillary in bogs.

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

None known.

**Special Management Designations or Considerations:**

The Prison Camp Muskeg Terrestrial Community boundary touches the far northeastern portion of the compartment.

**Watershed and Fisheries Considerations:**

Callam Creek and the North and Middle Branch Linton Creeks are located in this compartment. Linton Creek is a designated trout stream, however, the North and Middle Branch Linton Creeks are not. These creeks and Callam Creek are all less than 50 ft in width and are not designated in the Valley Segment Stream Classification tool. Any treatments near the riparian zone should adhere to a buffer of 100 ft plus 5 ft per 1% increase in slope.

**Wildlife Habitat Considerations:**

Compartment 47 lies in north eastern Luce county in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and is in the Charcoal Grade management Area and has black bear, moose, spruce grouse and American marten as featured species. The compartment is a substantial part of the Halifax Grouse Enhanced Management Plan that guides the aspen management in the compartment. The western portion of the compartment is largely young aspen and some mixed conifer whereas the eastern portion is more lowland types consisting of treed bogs, mixed conifer, mixed deciduous and cedar. Linton creek runs through a portion of the compartment and provides a good travel corridor for wildlife.

Conifer components of aspen stands are commonly retained during harvest to increase stand diversity, provide nesting, denning and forage sites and cover for wildlife species such as ruffed grouse, black bear and marten, warblers, roosting owls, and nuthatches. Large diameter aspen will occasionally be retained to provide winter food sources (ruffed grouse) and later snags and den trees for wildlife such as cavity nesting birds (flicker, woodpeckers, chickadees) and coarse woody debris for marten and small mammals. Drumming log specs are planned for aspen harvests to ensure ample fine scale habitat elements.

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

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 nearest active sand/gravel pit is just over one mile to the south. There may be some limited potential for sand & gravel (primarily sand) within the compartment on the uplands. 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 approximately 20 miles north of Newberry with M-123 bordering to the south and County Rd 500 on the west. Access to the interior of the compartment is limited and is mainly seasonal via a gated snowmobile trail/road and various other closed roads.

### **Survey Needs:**

No survey work is needed to complete the prescribed treatments.

### **Recreational Facilities and Opportunities:**

The only designated recreational facility within the compartment is snowmobile trail #45. Other recreational opportunities would include hunting, ORV riding, and wildlife viewing. The North Country Trail (hiking trail) is located just to the east of the compartment within the Tahquamenon Fall State Park.

### **Fire Protection:**

Low amount of hazardous fuel types will keep the potential for large fire growth low. The variety of fuel types, soil and terrain may require modified suppression tactics for fires in the compartment.

### **Additional Compartment Information:**

The following reports from the Inventory are attached:

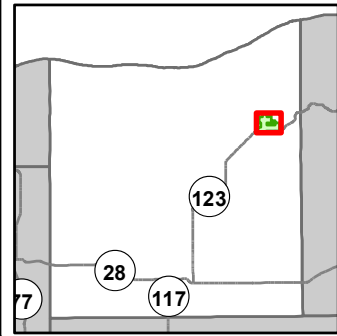
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

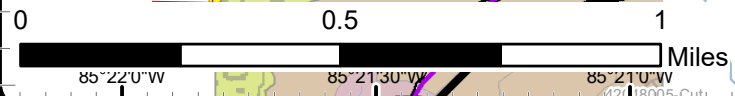
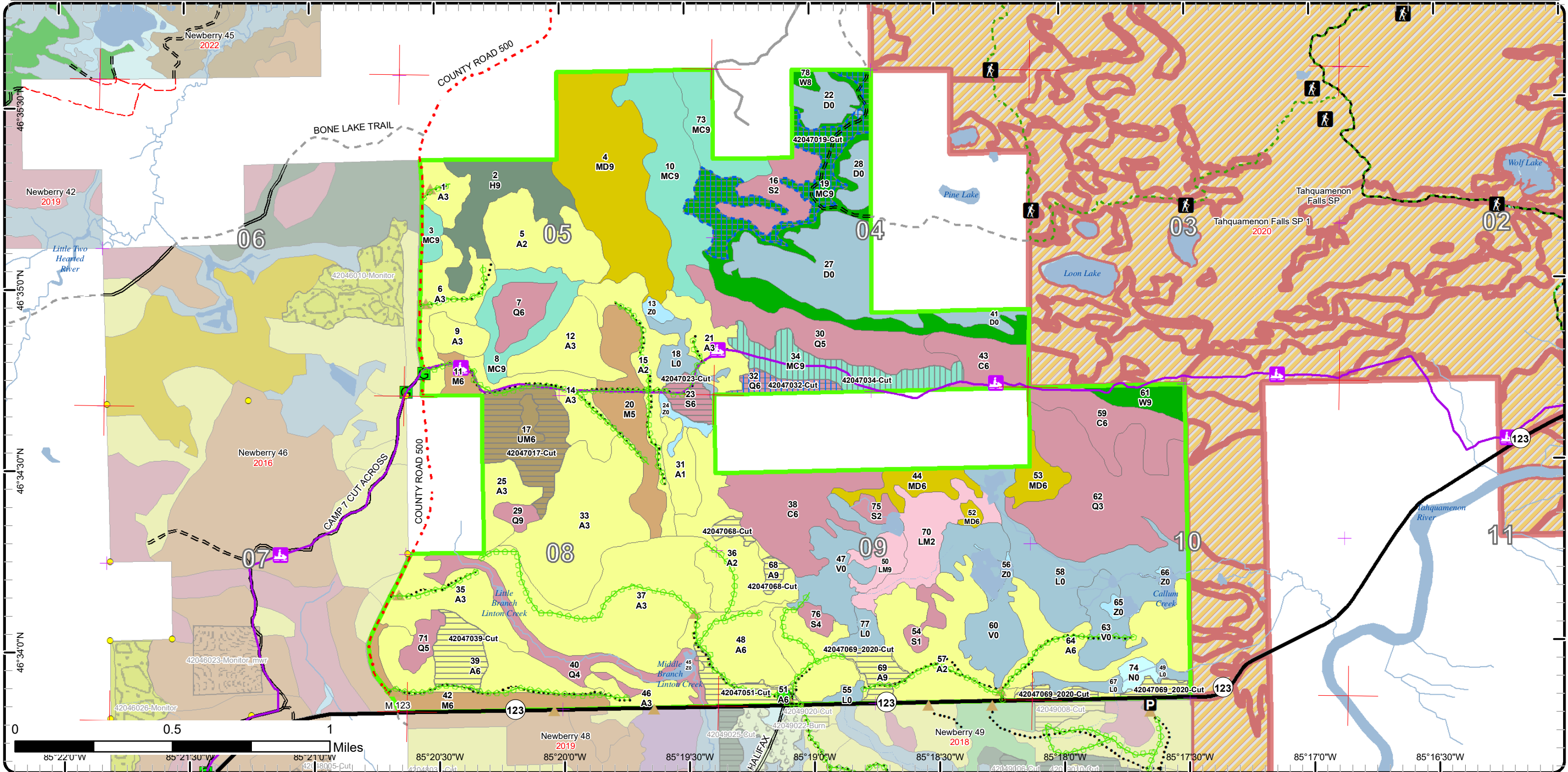
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 47  
 T48N, R08W, Sec. 4, 5, 7-10  
 County: Luce  
 Unit: Newberry  
 Mgmt Area: Charcoal Grade  
 YOE: 2023  
 Acres: 2261 GIS Calculated  
 Examiner: Lester Livermore  
 Map Revised: 12/29/2021  
 Map Phase: Post-Review



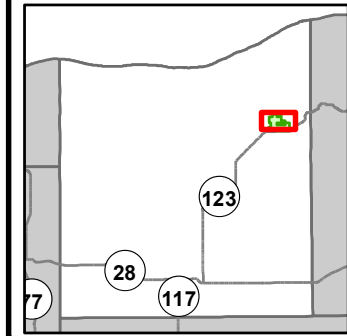
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- Remonumented Section Corners
- Survey Grade Corners
- Counties
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- 623 - Emergent Wetland



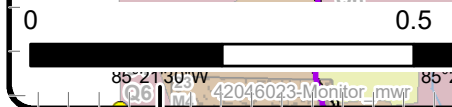
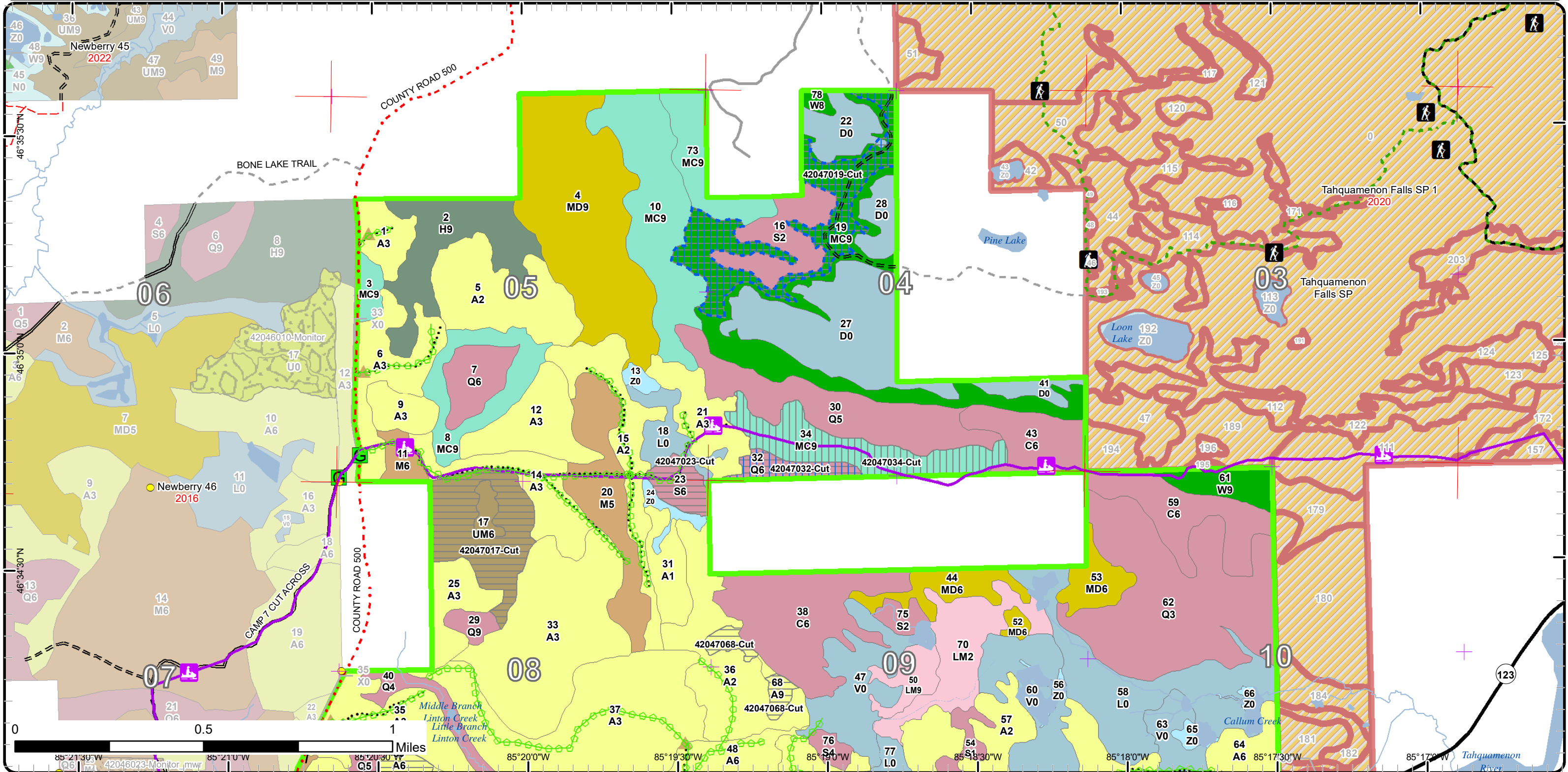
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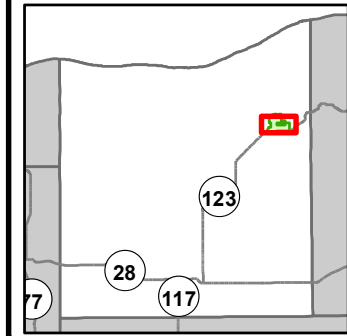
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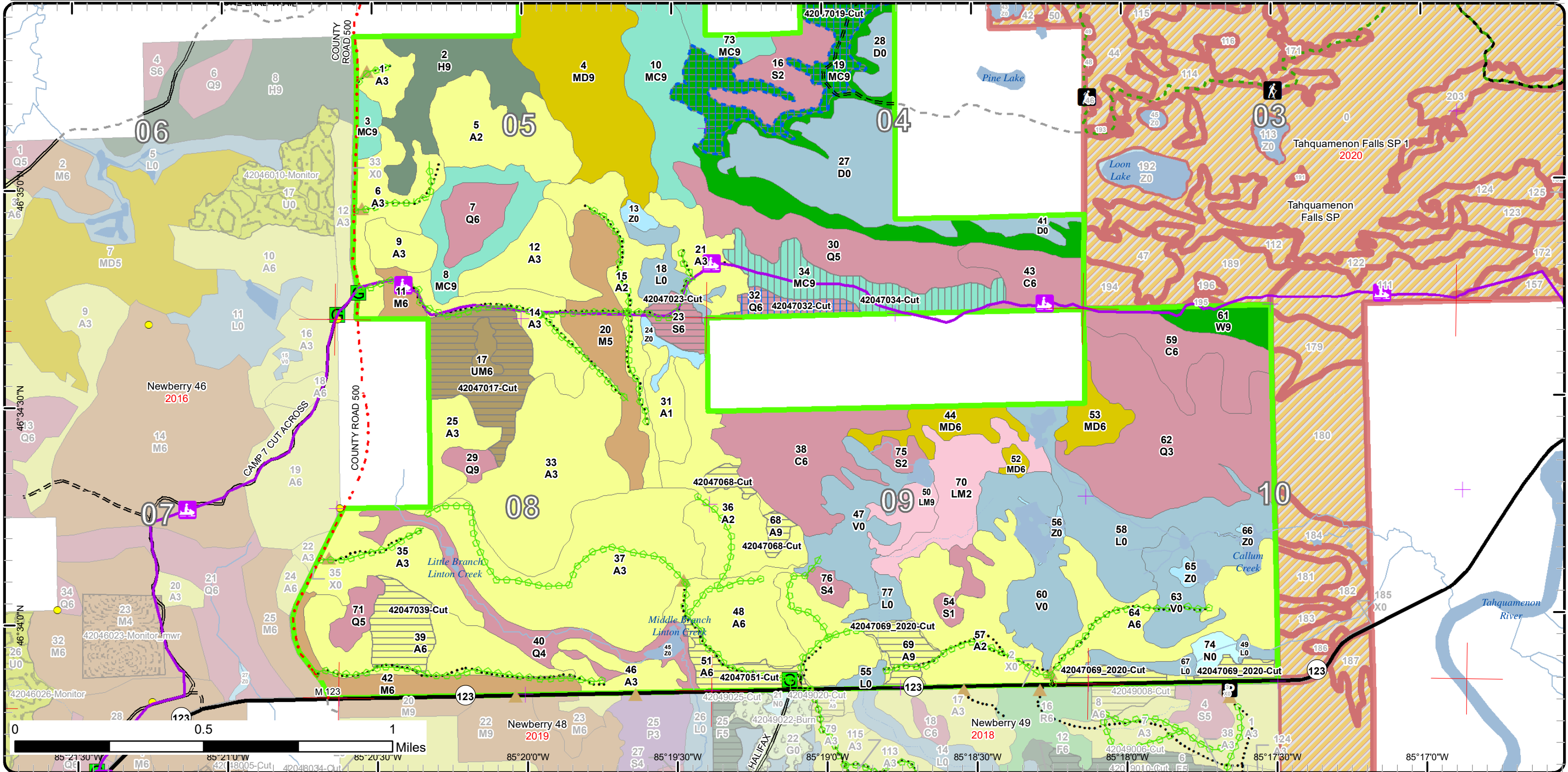
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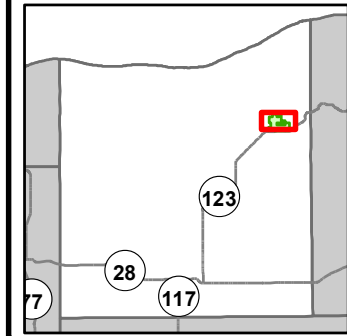


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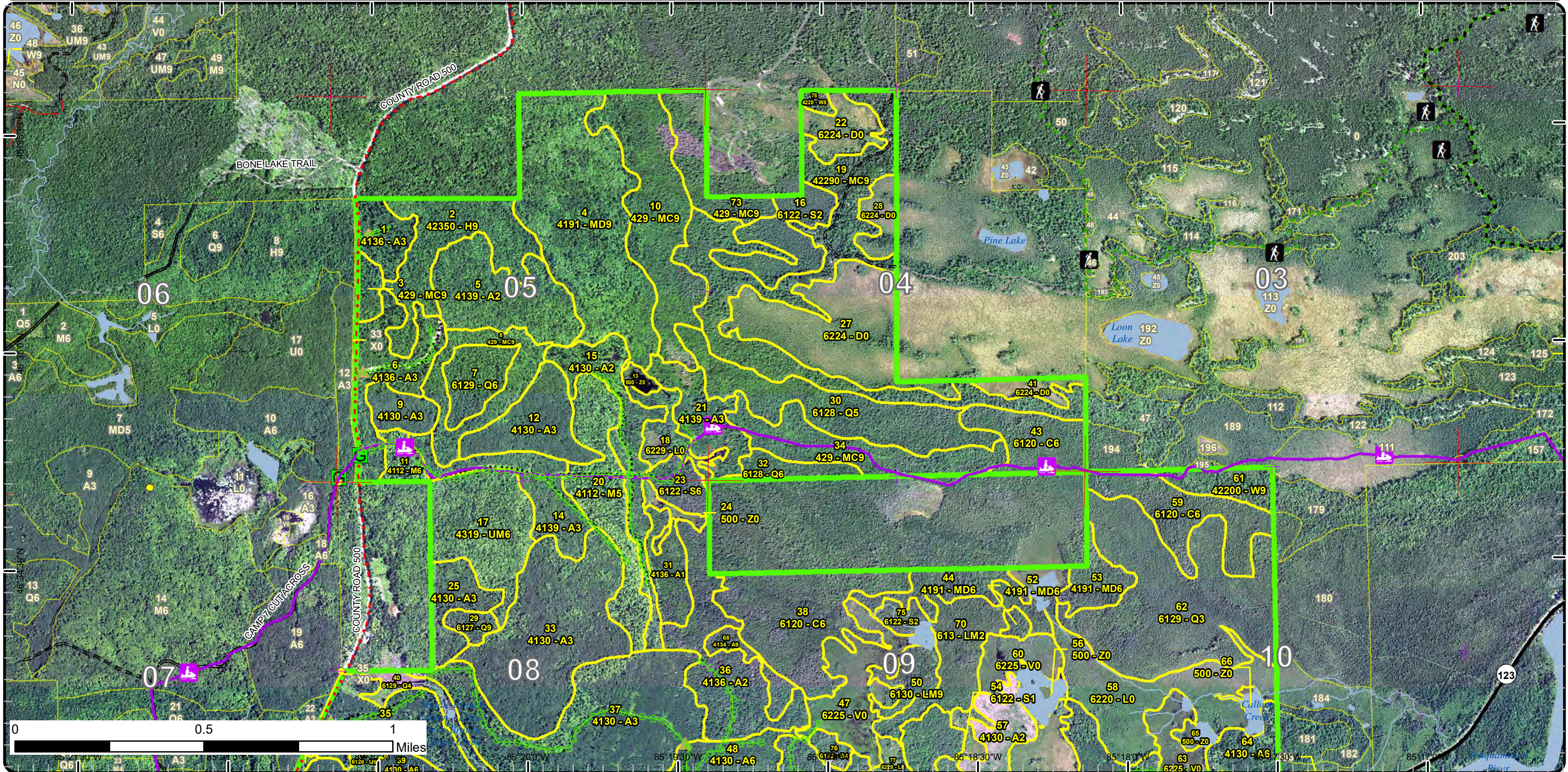
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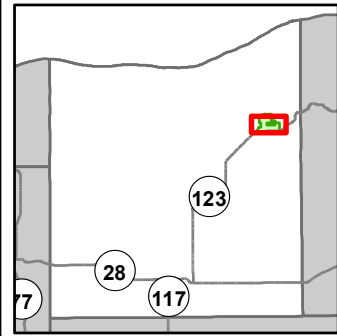
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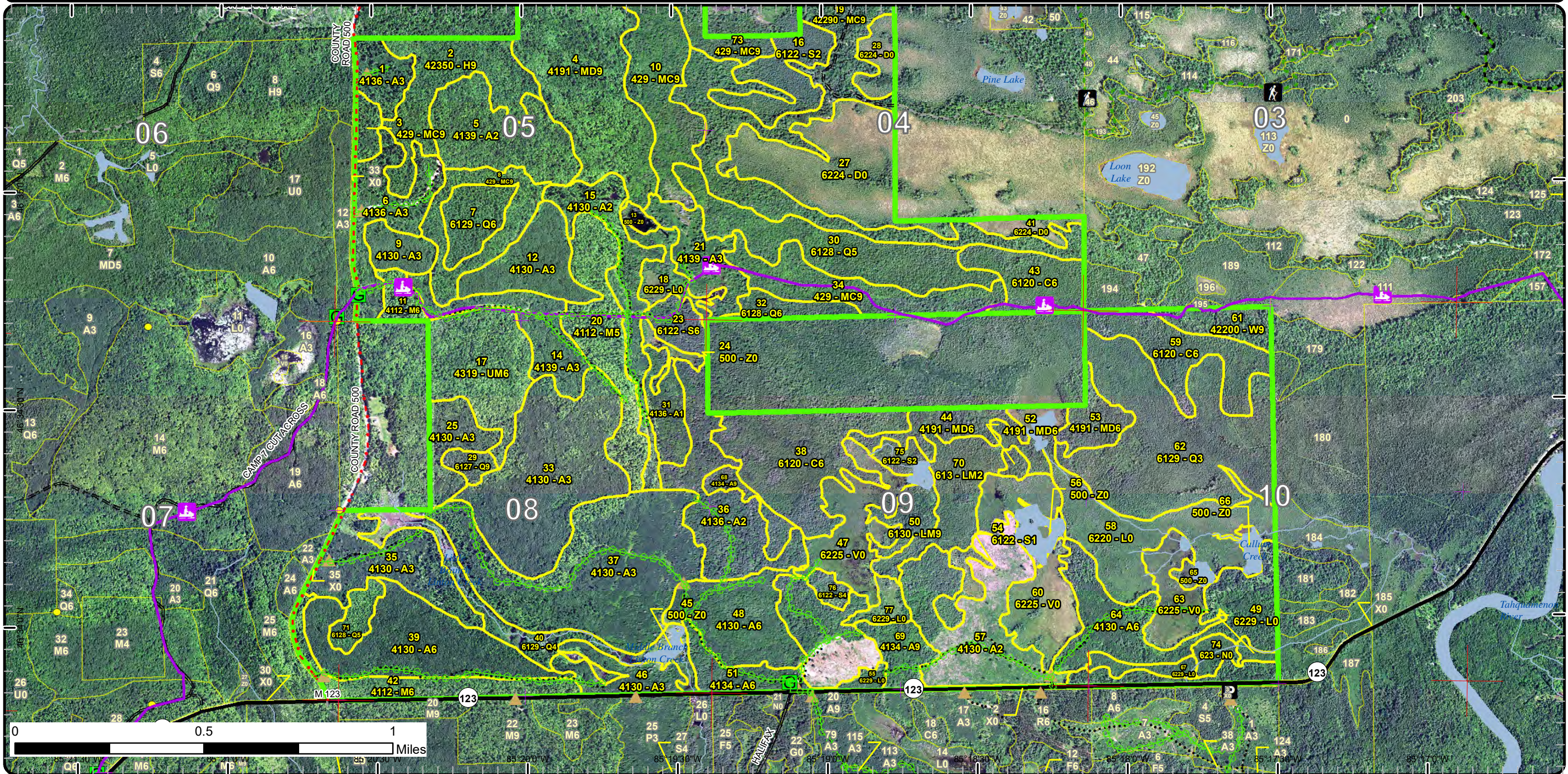
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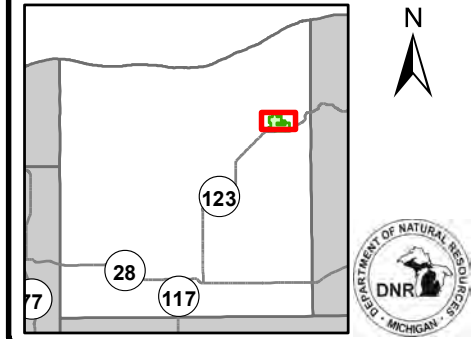
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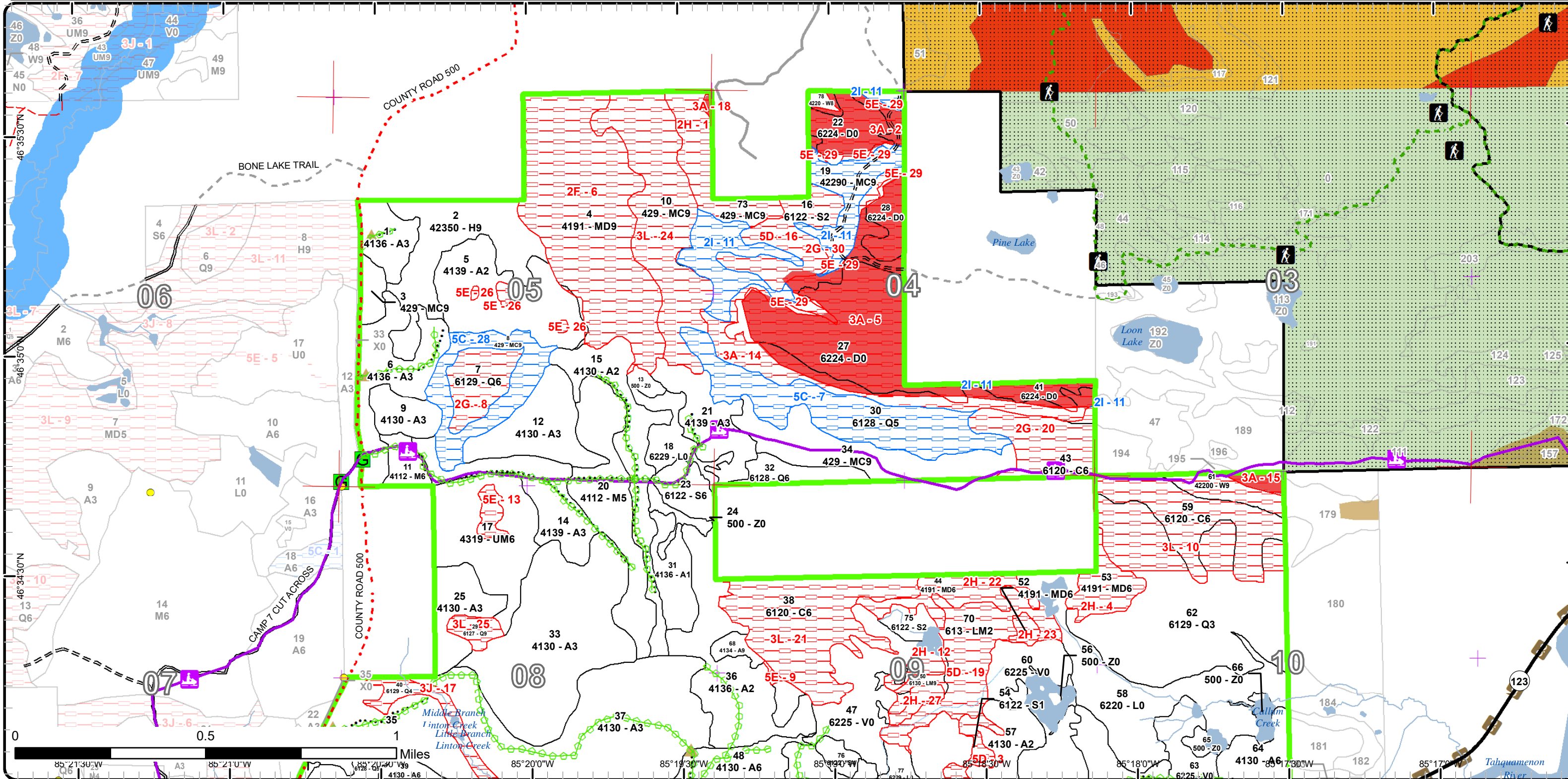


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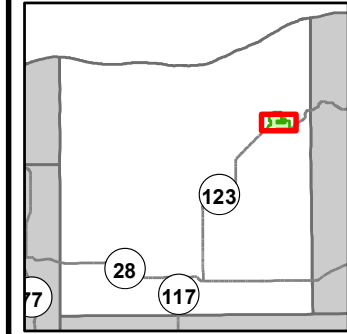
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- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Forest Habitat Core Interior
- State Heritage Routes-Scenic (MDOT Designation)
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



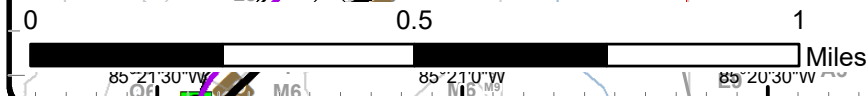
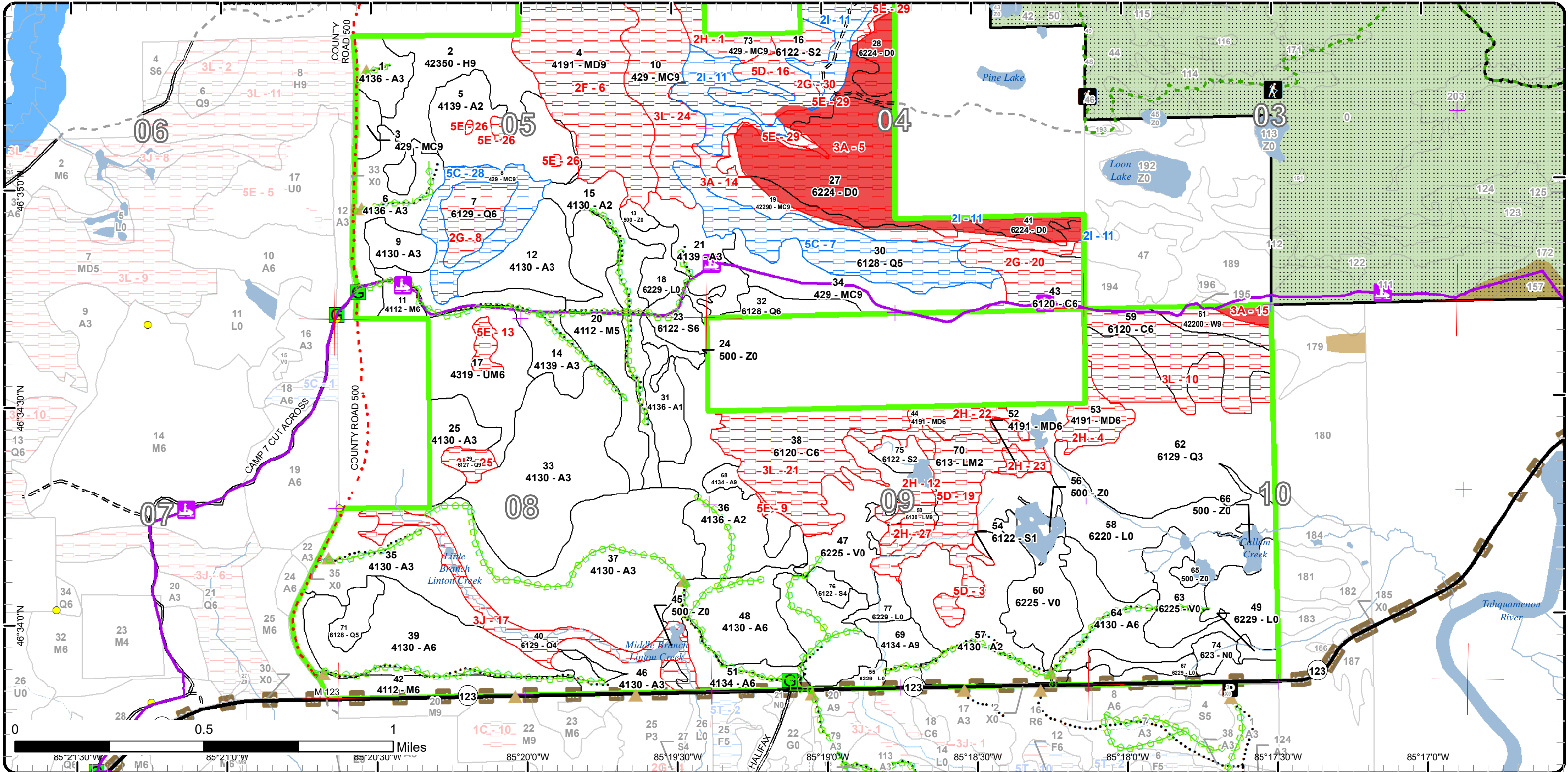


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- 5E: Long-Term Retention
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- Forest Habitat Core Interior
- State Heritage Routes-Scenic (MDOT Designation)
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



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

Newberry Mgt. Unit

Compartment 47

Year of Entry 2023

Lester Livermore : 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	206	309	246	60	0	0	17	30	9	0	0	0	0	0	0	0	0	876
Bog	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	62	0	122
Hemlock	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44
Lowland Conifers	0	0	0	0	0	109	33	0	27	6	0	0	65	0	0	0	0	0	240
Lowland Mixed Forest	0	0	0	0	37	0	0	0	0	12	0	0	0	0	0	0	0	0	48
Lowland Shrub	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
Lowland Spruce/Fir	0	0	0	0	27	19	0	0	0	11	0	0	0	0	0	0	0	0	57
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	0	107	0	35	0	0	0	0	0	0	0	0	140
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	100
Northern Hardwood	0	0	0	0	0	0	0	0	0	79	0	0	0	0	0	0	0	0	78
Treed Bog	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Upland Conifers	0	0	0	0	0	0	0	0	7	0	0	66	87	0	0	0	0	0	160
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	47	0	0	0	0	0	0	0	0	47
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	17
<b>Total</b>	<b>330</b>	<b>206</b>	<b>309</b>	<b>246</b>	<b>124</b>	<b>128</b>	<b>33</b>	<b>124</b>	<b>64</b>	<b>73</b>	<b>126</b>	<b>110</b>	<b>330</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>62</b>	<b>0</b>	<b>2259</b>



## Report 2 – Treatment Summary

**Newberry Mgt. Unit**  
**Year of Entry: 2023**

**Acres of Harvest**

**Compartment 47**  
**Total Compartment Acres: 2,261**

Commercial Harvest - 173  
 Harvests with Site Condition - 49  
 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	71	0	0	0	0	0	0	0	0	71
Lowland Conifers	0	0	0	11	0	0	0	0	0	11
Lowland Spruce/Fir	11	0	0	0	0	0	0	0	0	11
Natural Mixed Pines	0	0	0	49	0	0	0	0	0	49
Upland Conifers	0	0	0	0	38	0	0	0	0	38
Upland Mixed Forest	42	0	0	0	0	0	0	0	0	42
<b>Total</b>	<b>124</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>38</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>223</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	223	0	0	0	0	0	0	0	0	223
Next Step	0	49	99	0	49	0	272	0	0	469
<b>Total</b>	<b>223</b>	<b>49</b>	<b>99</b>	<b>0</b>	<b>49</b>	<b>0</b>	<b>272</b>	<b>0</b>	<b>0</b>	<b>692</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>17</b>	<b>42047017-Cut</b>	42.2	4319 - Mixed Upland Forest	Poletimber Well	95	111-140	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	No
-----------	---------------------	------	----------------------------	-----------------	----	---------	---------	-------------------------	-------------------------	-----------	----

Prescription Harvest all species present to encourage a new age class of maple with aspen and conifer. Pocket(s) retention 5 -10%. Central portion dominated by hemlock will serve as retention for marten and loafing moose. Follow standard snowmobile trail protections.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red maple with birch, aspen, fir, spruce, and hemlock.

Regen:

Other See site condition layer for approximate retention area that will become its own stand post harvest.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>19</b>	<b>42047019-Cut</b>	49.3	42290 - Natural Mixed Pine	Sawtimber Well	114	81-110	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Retain approximately 10 - 30 basal area of white and red pine mimicking moderate intensity fire disturbance. Target larger individuals for retention for seed production and fire survivability. Harvest all other species present allowing for a new age class to regenerate. Protect the integrity of the surrounding lowlands with BMP guidelines treating only the upland portion and implementing a 100ft buffer. Treatment acreage may change.

Next Step SitePrep, Scarification; Planting, Initial Plant; Burn, Understory; Monitoring, Natural Regen (Intermediate); Monitoring, Artificial

Treatments: Regen(1yr); Planting, Replant

Acceptable Red and white pine with birch, aspen, red maple and black spruce.

Regen:

Other Portions of the stand are within the ERA polygon. 100ft buffer incorporated into the treatment polygon. Ideally the site should be burned following harvest to mimic natural processes and promote pine regeneration however scarification and/or hand planting could successfully regenerate white and red pine.

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2022

<b>23</b>	<b>42047023-Cut</b>	11.4	6122 - Black Spruce	Poletimber Well	81	Unspec ified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Cut all species. Winter harvest because of saturated soils, especially in the east. No retention due to small acreage. Leave any large diameter white pine for future nest trees. Acreage may change depending on merchantability of canopy upon sale setup.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce and fir with aspen, birch, red maple and white pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

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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
<b>32 42047032-Cut</b>	10.6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	116	Unspecified	Harvest	Seed Tree with Retention	613 - Lowland Mixed Forest	Two-Aged	No
<p><u>Prescription</u> Cut all species present except retain all hemlock and any cedar that is within a hemlock pocket for marten and moose loafing areas.</p> <p><u>Specs:</u> Retention met by previously mentioned species.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red maple, fir, spruce, cedar, hemlock, yellow birch and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>34 42047034-Cut</b>	38.3	429 - Mixed Upland Conifers	Sawtimber Well	105	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Retain 40 -50 basal area allowing room for a new age class within the stand. Retain all hemlock for marten and moose loafing areas and a representation of large white pine except where needed for operability. Retain best quality red maple while removing overmature and/or poor health individuals. Harvest all balsam, spruce, birch, aspen. Individual trees either designated or marked to leave will serve as retention. Follow standard snowmobile trail protections if winter harvested.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red maple, white pine, hemlock, fir, spruce and cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u> Could be harvested in drier season/year or in winter.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>39 42047039-Cut</b>	20.8	4130 - Aspen	Poletimber Well	35	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention harvesting all species except retain hemlock and a representation of other conifer. Follow standard trail protections upon harvest. Stand retention will be in accordance with the GEM plan. Leave some aspen in the red line. Creating 2 or 3 drumming logs by hinge cutting or tipping over trees of any species scattered across the stand that are 9 - 15 inches in diameter and within sight of the redline for grouse.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with birch, balsam fir and spruce.</p> <p><u>Regen:</u></p> <p><u>Other</u> Portion of the stand is to be harvested in fiscal year 2030 as part of the Halifax Grouse Enhancement Management Site (GEM). See plan for cutting map and additional information upon sale prep.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2029</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
<b>51 42047051-Cut</b>	15.9	4134 - Aspen, Spruce/Fir	Poletimber Well	66	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Clearcut with retention. Stand is to be harvested in fiscal year 2020 as part of the Halifax Grouse Enhancement Management Site (GEM). <u>Specs:</u> Stand retention will be in accordance with the GEM plan.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u>  <u>Acceptable</u> Aspen with associated conifer and hardwood species. <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020										
<b>68 42047068-Cut</b>	8.3	4134 - Aspen, Spruce/Fir	Sawtimber Well	83	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Clearcut with retention. Stand is to be harvested in fiscal year 2020 as part of the Halifax Grouse Enhancement Management Site (GEM). <u>Specs:</u> Stand retention will be in accordance with the GEM plan.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u>  <u>Acceptable</u> Aspen with associated conifer and hardwood species. <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020										
<b>69 42047069_202 0-Cut</b>	25.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	72	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Clearcut with retention. Stand is to be harvested in fiscal year 2020 as part of the Halifax Grouse Enhancement Management Site (GEM). <u>Specs:</u> Stand retention will be in accordance with the GEM plan.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u>  <u>Acceptable</u> Aspen with associated conifers and hardwoods. <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020										

**Total Treatment** 222.5  
**Acres Proposed:**

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Lester Livermore : Examiner

Compartment: 47  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions											
		With Condition	Not Available		2I	5C	2F	2G	2H	3A	3J	3L	5D	5E		
877	871	0	5	Aspen		0	0					2				3
106	105	0	2	Bog					0						1	
122	0	0	122	Cedar				26					96			
44	44	0	0	Hemlock			0									
239	101	54	84	Lowland Conifers		54		18	0			31	36			
49	1	0	48	Lowland Mixed Forest					8						39	
99	99	0	0	Lowland Shrub					0							
57	22	0	35	Lowland Spruce/Fir				0							34	
6	6	0	0	Marsh												
141	1	0	141	Mixed Upland Deciduous			106		35							
100	0	45	55	Natural Mixed Pines	45			1		46			0			8
79	79	0	0	Northern Hardwood												
100	6	0	94	Treed Bog						94						
159	45	27	87	Upland Conifers		27	0	0	23	1			63			
47	42	0	5	Upland Mixed Forest												5
19	19	0	0	Water												
17	2	0	15	White Pine						5			11			
2,261	1,442	126	693	Total Forested Acres	45	81	106	45	66	146	33	205	75	15		
	64%	6%	31%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Blocked access from the south by lowland and from the west by steep topography.								

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Lester Livermore : Examiner

Compartment: 47  
Year of Entry: 2023

2	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
3	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	8	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Removing old Stand Condition "8". SCA designation not warranted. The portion of the compartment considered to have unique values was transferred to Tahquamenon Falls State Park ownership.							
5	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	98	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
6	<b>Unavailable</b>	<b>2F: Too steep</b>	106	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	54	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Evaluated for SBW.							



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Lester Livermore : Examiner

Compartment: 47  
Year of Entry: 2023

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	77	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>2I: Survey needed</b>	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> MNFJ survey to take place for the adjacent Muskeg before treatment to occur.							
12	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possible placement of a large retention pocket that will eventually become its own stand after harvest.							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Lester Livermore : Examiner

Compartment: 47  
Year of Entry: 2023

14	Unavailable	3A: Conservation Values incompatible with harvest at this time	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This site condition encompasses the portions of the stand that are adjacent to the ERA. Stand itself is not muskeg even though overlap with the ERA polygon does occur.							
15	Unavailable	3A: Conservation Values incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
16	Unavailable	5D: Unproductive Forest Land	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
19	Unavailable	5D: Unproductive Forest Land	41	3J: Water quality / BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b> Unproductive land with wet ground with streams.							

## Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 47

Lester Livermore : Examiner

Year of Entry: 2023

20	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	63	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Lester Livermore : Examiner

Compartment: 47  
Year of Entry: 2023

26	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention from timber sale: 42-029-13 YEAR END ASPEN.							
27	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	2E: Road needed	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b> Access blocked by adjacent lowlands and a road would need to be constructed to harvest. Stand borders marsh/bog.							
28	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Consider treatment with adjacent stand according to GEM plan guidance (FY2040).							
29	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Areas of stand not in ERA polygon but within the 100' foot buffer of the ERA.							
30	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Not within ERA polygon but is not part of ridge stand.							

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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	Managed Site	General Comments																																																																		
1	4136 - Aspen, Mixed Conifer	Sapling Well	14.6	13	1-50	N/A	Stand harvested as sale #031-03: completed 2008. Good component of residual hemlock, white pine, white spruce left after the harvest. Aspen and red maple regen now 20'+ tall.																																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>20</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>40</td> <td>Sapling</td> <td>2</td> <td>13</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>5</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log</td> <td>14</td> <td>71</td> </tr> <tr> <td>Hemlock</td> <td>25</td> <td>Log/Pole</td> <td>11</td> <td>71</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Sapling	2		Quaking Aspen	40	Sapling	2	13	Balsam Fir	5	Sapling	2		White Spruce	5	Pole	9		White Pine	5	Log	14	71	Hemlock	25	Log/Pole	11	71	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	< 5 feet	Sapling	Beech	Low	< 5 feet	Sapling	Balsam Fir	Low	< 5 feet	Sapling																			
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2	42350 - Upland Hemlock	Sawtimber Well	44.0	105	141-170	N/A	Variable stand; dense hemlock canopy in places with other areas more two-aged with natural gaps where younger class of maple and hemlock recruiting. More balsam and lower ground in southern portions of stand. No overwhelming health issues.																																																																		
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3	429 - Mixed Upland Conifers	Sawtimber Well	6.6	78	81-110	N/A	Aspen and paper birch component mostly situated near road edge. Maple and aspen recruiting into the canopy gaps where present as a result of previous harvest. Small pole class aspen pocket near center of stand. Stand was cut as a log job as sale #17-93.																																																																		
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4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	106.5	63	111-140	N/A	Central portion of the stand dominated by variable size classes of hemlock with large white pine in association; 180+ basal area in areas. Northern and southern portions are primarily 6-8 inch red maple and infrequent scattered large diameter aspen; basal area around 90 ft2. Maple is low to moderate quality. Canopy gaps where beech has fallen out have beech regen with maple recruitment. Steep ridges and drainages throughout.																																																																		
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5	4139 - Aspen, Mixed Deciduous	Sapling Medium	46.2	2	Immature	N/A	Stand harvest via clearcut: YEAR END ASPEN • 42-029-13. Stand has had 2 growing seasons and aspen is really starting to flush. Scattered retention from the sale includes maple, birch, hemlock and white pine. Clover in road doing okay in the higher parts of the road where not competing with sedge and grass.																																																			
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6	4136 - Aspen, Mixed Conifer	Sapling Well	33.4	13	1-50	N/A	Stand was harvested as sale #031-03. Completed in 2008. Regenerating mainly to aspen and red maple with some balsam, white birch. Residual hemlock, white pine, yellow birch, beech and white spruce following the harvest, acting as supercanopy trees right now.																																																			
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7	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	17.9	75	Unspecified	N/A	Wetter ground, boggy. Higher tamarack component than adjacent stand.																																																			
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8	429 - Mixed Upland Conifers	Sawtimber Well	27.3	105	141-170	N/A	Large diameter hemlock and white pine stand.																																																			
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9	4130 - Aspen	Sapling Well	12.1	23	Unspecified	N/A	Stand harvested in 1998 as sale #013-93. Well stocked across the stand.																																																			
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<b>10</b>	429 - Mixed Upland Conifers	Sawtimber Well	63.0	114	111-140	N/A	Hemlock and white pine with components of red maple, black spruce and cedar. Very steep topography with steep ridges and wet soils. Low quality stand.																																																								
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<b>11</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.1	95	51-80	N/A	Stand thinned in 2008 as sale #031-03. Mix of hard maple and red maple with hemlock. Good maple and aspen regeneration; some places thick aspen regen. Stand averages about 70 basal area.																																																								
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<b>12</b>	4130 - Aspen	Sapling Well	29.7	23	Unspecified	N/A	Stand harvested as sale #013-93. Completed in 1998. Nice thick aspen stand. Infrequent supercanopy hemlock and white pine, residual from prior harvest.																																																								
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<b>13</b>	500 - Water	Nonstocked	3.1		Unspecified	No	Beaver Pond																																																								
<b>14</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	29.1	13	Immature	N/A	Stand harvested as sale #031-03. Completed in 2008. Was typed as northern hardwoods prior to harvest. Converted over to a mix of hardwoods and aspen. residual hemlock and yellow birch throughout the stand.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>15</b>	4130 - Aspen	Sapling Medium	34.9	13	Unspecified	N/A	Stand harvested as sale #031-03. Completed in 2008. Mainly aspen and red maple regeneration. Small beaver pond in the north end of the stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		5	Log	14		Red Maple	
Red Maple		13	Sapling/Pole	3		Balsam Fir	
Quaking Aspen		75	Sapling	2	13	White Spruce	
White Spruce		5	Pole	9		Blackberry/Raspberry	
Hemlock		2	Sapling	2			
						<b>Density</b>	<b>Avg. Height</b>
						< 5 feet	Sapling
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						< 5 feet	Sapling
						< 5 feet	Tall Shrub

<b>16</b>	6122 - Black Spruce	Sapling Medium	26.7	30	Immature	N/A	Previous inventory shows stand dominated by sapling black spruce and tamerack with clumps of sapling cedar and scattered white pine.
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<b>17</b>	4319 - Mixed Upland Forest	Poletimber Well	47.0	95	111-140	N/A	Red maple with hemlock and spruce in association along with white pine, yellow birch, aspen and white birch. Most of the aspen was removed from stand in 2001. Overall quality of the stand is moderate with the best quality in the 8 inch red maple, mainly situated in the east. A vein of hemlock dominated ground runs north/south in the center of the stand with some decent hemlock regen. Basal area variable but average around 100 to 110. Quality decreases as move west through stand. Wetland inclusion in the northwest corner. Skid trail runs north/south next to the hemlock vein with yellow birch 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		5	Pole	8		Red Maple	
Red Maple		47	Pole	7	95	Beech	
Yellow Birch		5	Pole/Log	9		Balsam Fir	
Quaking Aspen		2	Pole	9		White Pine	
Balsam Fir		10	Pole	8		Hemlock	
White Spruce		8	Pole	8		Yellow Birch	
Hemlock		15	Log/Pole	10			
White Pine		3	Log/XLog	16			
Black Spruce		5	Pole	7			
						<b>Density</b>	<b>Avg. Height</b>
						Medium	< 5 feet
						Low	< 5 feet
						High	Variable
						Low	< 5 feet
						Low	< 5 feet
						Medium	10 - 20 feet

<b>18</b>	6229 - Mixed lowland shrub	Nonstocked	13.6		Unspecified	No	
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<b>19</b>	42290 - Natural Mixed Pine	Sawtimber Well	99.8	114	81-110	N/A	White pine stand, varies from high steep ridge to lower areas with white pine and red maple. Mixture of species within the stand. Southern portion of the stand nearest the snowmobile trail has higher percentage of hemlock, whereas the northern ridges are drier with more red pine component.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		9	Pole	8		Red Maple	
Balsam Fir		5	Pole	8		Balsam Fir	
Black Spruce		5	Pole	7		White Spruce	
White Pine		39	Log/XLog	14	114	White Pine	
Red Pine		22	Log/XLog	13		Hemlock	
Hemlock		12	Log/Pole/XLog	12			
Northern White Cedar		8	Pole/Log/XLog	9			
						<b>Density</b>	<b>Avg. Height</b>
						Medium	5 - 10 feet
						Medium	Variable
						Low	5 - 10 feet
						Medium	5 - 10 feet
						Low	< 5 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
20	4112 - Maple, Beech, Cherry Association Poletimber	Medium	42.5	95	81-110	N/A	Stand thinned as sale #031-03. Completed in 2008. Good maple regeneration, aspen and some balsam. Component of yellow birch in stand. Beech is almost completed dead within the stand.																																															
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21	4139 - Aspen, Mixed Deciduous	Sapling Well	24.9	13	Immature	N/A	Stand harvested as sale #031-03. Completed in 2008. Regeneration is 10- 30 ft tall. Mix of aspen, red maple, white spruce, balsam, cherry. Lowland incursion in southern portion of the site.																																															
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22	6224 - Treed Bog	Nonstocked	16.5		Unspecified	No	Stand includes a white pine low ridge within the surrounding lowlands.																																															
23	6122 - Black Spruce	Poletimber Well	11.4	81	Unspecified	N/A	Western and northern portions are relatively larger size classes from 5 - 12 inches; higher ground and not very wet. Forest health concerns on site: major flooding with dead and dying canopy in the east. High mortality in the northeast with a majority of the trees either on the way out or standing dead.																																															
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24	500 - Water	Nonstocked	4.7		Unspecified	No																																																
25	4130 - Aspen	Sapling Well	18.4	15	Unspecified	N/A	Stand harvested as sale #40-03. Completed in 2006. Young aspen with red maple stump sprouts. Residual hemlock and maple. Scattered baslam and spruce regeneration.																																															
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27	6224 - Treed Bog	Nonstocked	64.5		Unspecified	No	Prison Camp Muskeg																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**28** 6224 - Treed Bog Nonstocked 11.1 Unspecified No

**29** 6127 - Lowland Pine Sawtimber Well 5.6 84 111-140 N/A

White pine stand with hemlock, black spruce, red maple. Slight component of yellow birch and cedar. Nice stand of diversity with the aspen area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	9		Red Maple	Medium	10 - 20 feet	Sapling
Black Spruce	20	Pole	8		Balsam Fir	Low	< 5 feet	Sapling
White Pine	55	Log/Pole	13	84	Black Spruce	Medium	10 - 20 feet	Sapling
Hemlock	20	Log/Pole	11		White Pine	Low	< 5 feet	Sapling
					Hemlock	Low	10 - 20 feet	Sapling

**30** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 53.9 116 51-80 N/A

Low quality site with 50% open canopy in many places with wet pockets scattered throughout. Cedar is variable sizes but frequent poles and infrequent YB logs. Red maple percentage significantly higher on the western portion of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	28	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
White Spruce	5	Pole	9		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole	8		Northern White Cedar	Medium	5 - 10 feet	Sapling
Northern White Cedar	32	Pole	9	116	Tag Alder	Medium	5 - 10 feet	Tall Shrub

**31** 4136 - Aspen, Mixed Conifer Sapling Poor 16.2 3 Immature N/A

Stand harvested via clearcut with retention: YEAR END ASPEN 42-029-13. Aspen and red maple sprouts in portions of the site. Stand will continue to regenerate with time to the forested objective.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	38	Sapling	1	3
Quaking Aspen	40	Sapling	1	3
Balsam Fir	5	Sapling/Pole	4	
White Spruce	10	Sapling/Pole	3	
Northern White Cedar	2	Pole	6	
Hemlock	5	Pole	7	

**32** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 10.6 116 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
White Spruce	5	Pole	9		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole	8		Northern White Cedar	Medium	5 - 10 feet	Sapling
Northern White Cedar	40	Pole/Log	9	116				
Hemlock	15	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
<b>33</b>	4130 - Aspen	Sapling Well	87.9	25	Unspecified	N/A	Small pole/ large sapling aspen is about 4 in dbh on average. Component of hard maple, red maple, white birch and balsam. Some residual pole size red maple and a few spruce.																																																											
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<b>34</b>	429 - Mixed Upland Conifers	Sawtimber Well	38.3	105	111-140	N/A	Ridge of hemlock, red maple, white pine, and spruce. Components of balsam, occasional white birch and black spruce. Snowmobile trail runs the length of the stand along the ridge.																																																											
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<b>35</b>	4130 - Aspen	Sapling Well	41.7	15	Unspecified	N/A	Stand harvested as sale #032-03. Completed in 2006. Dominated by 10 - 20 foot tall aspen with red maple, balsam and white birch in association. Residual white pine, hemlock, and white spruce from harvest. Beaver activity in northwest portion of the stand near Co Rd 500.																																																											
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<b>36</b>	4136 - Aspen, Mixed Conifer	Sapling Medium	50.3	3	Immature	N/A	Stand harvested via clearcut with retention: YEAR END ASPEN 42-029-13. Stand regenerating well to aspen with birch, maple and conifer in association. Pockets of sapling spruce and balsam fir occupying portions of the stand post harvest.																																																											
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<b>37</b>	4130 - Aspen	Sapling Well	111.3	15	Unspecified	N/A	Stand harvested as sale #040-03. Completed in 2006. Young, well stocked aspen stand. Component of red maple and hard maple. Residual spruce and maple left after harvest.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**38** 6120 - Lowland Cedar Poletimber Well 59.8 116 Unspecified N/A Previous inventory indicated lowland cedar stand with variable density throughout.

**39** 4130 - Aspen Poletimber Well 59.8 35 51-80 N/A Mixed stocking levels of aspen with a red maple, spruce, fir and birch component. Pockets of dense sapling size classes still present. Stand was harvested in 1986 as sale #023-83. Stand now entering small pole size classes. Balsam pocket within the center of the stand. Adjacent hemlock stand in the northwest delineated as new stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	4	Pole	5		Red Maple	Medium	< 5 feet	Seeding
Red Maple	10	Sapling/Pole	4		Balsam Fir	Medium	Variable	Sapling
Paper Birch	10	Pole/Sapling	5		White Spruce	Low	5 - 10 feet	Sapling
Quaking Aspen	65	Pole/Sapling	5	35	Aspen (spp.)	Medium	5 - 10 feet	Sapling
Balsam Fir	8	Pole	5		Yellow Birch	Low	< 5 feet	Sapling
Hemlock	1	Log	15					
Yellow Birch	2	Sapling/Pole	4					

**40** 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 33.0 57 1-50 N/A Stream corridor for Middle Branch Linton Creek. Semi open canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole	9		Black Spruce	Low	< 5 feet	Sapling
Black Spruce	30	Pole	8	57	Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	5	Pole	9		Willow spp.	Low	5 - 10 feet	Tall Shrub
White Pine	30	Log/Pole	12					
Hemlock	30	Pole/Log	9					

**41** 6224 - Treed Bog Nonstocked 8.1 Unspecified No

**42** 4112 - Maple, Beech, Cherry Association Poletimber Well 28.0 95 81-110 N/A Stand thinned as sale #032-03. Completed in 2006. Pole size red maple stand with component of hard maple, yellow birch, hemlock, beech. Good regeneration of aspen, maple, beech and balsam.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole	8		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	70	Pole/Log	9	95	Beech	Low	< 5 feet	Sapling
Yellow Birch	10	Pole	8		Balsam Fir	High	Variable	Sapling
Beech	5	Pole	9		Aspen (spp.)	Low	>20 feet	Sapling
Hemlock	5	Log/Pole	10					

**43** 6120 - Lowland Cedar Poletimber Well 25.9 160 Unspecified N/A Small diameters and lower site index than the adjacent lowland stand. Northern portion of the stand is less wet with more of a hemlock component. Very wet site in areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	70	Pole	8	160	Balsam Fir	Medium	Variable	Sapling
Tamarack	15	Pole	8		Black Spruce	Medium	5 - 10 feet	Sapling
White Pine	5	Log	12		Northern White Cedar	Low	< 5 feet	Sapling
Hemlock	10	Log/Pole	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
44	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.7	81	51-80	N/A																																																							
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45	500 - Water	Nonstocked	1.5		Unspecified	No																																																							
46	4130 - Aspen	Sapling Well	18.4	25	Unspecified	N/A	Stand harvested as sale #032-03. Completed in 1996. Good aspen regeneration with red maple, white birch and balsam. Residual white spruce left after harvest acting as supercanopy trees. Some blowdown.																																																						
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47	6225 - Bog	Nonstocked	37.8		Unspecified	No																																																							
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48	4130 - Aspen	Poletimber Well	40.2	28	Unspecified	N/A	Stand is has pole and large sapling size classes; could be typed as pole or sapling at this point in time. Component of balsam, white spruce and red maple.																																																						
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49	6229 - Mixed lowland shrub	Nonstocked	2.6		Unspecified	No																																																							
50	6130 - Fir, Aspen, Maple	Sawtimber Well	12.2	85	Unspecified	N/A																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
51	4134 - Aspen, Spruce/Fir	Poletimber Well	16.5	66	81-110	N/A	Mature aspen stand along M-123 north of Halifax Road. Good component of balsam and white spruce. Slight component of red maple. Stand is currently setup for a timber sale and at the proposal status (FY2021).																																										
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52	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.9	81	81-110	N/A																																											
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54	6122 - Black Spruce	Sapling Poor	8.2	40	1-50	N/A	Highest stocking in the southern portion of the site.																																										
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55	6229 - Mixed lowland shrub	Nonstocked	4.2		Unspecified	No																																											
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56	500 - Water	Nonstocked	2.9		Unspecified	No	Beaver pond																																										
57	4130 - Aspen	Sapling Medium	93.9	3	Immature	N/A	Stand harvested via clearcut with retention: YEAR END ASPEN 42-029-13. Stand regenerating well to aspen with birch, maple and conifer in association. Residual conifer and red maple saplings occupy the lower portions of the stand.																																										
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58	6220 - Alder/willow	Nonstocked	65.3		Unspecified	No	Lowland brush stand of tag alder, cedar and some black spruce.																																										
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59	6120 - Lowland Cedar	Poletimber Well	36.2	160	Unspecified	N/A																																			
60	6225 - Bog	Nonstocked	46.9		Unspecified	No	Portions of the site have open water while most of the site is vegetated. Occasional low sand ridges with pine and aspen.																																		
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61	42200 - Natural White Pine	Sawtimber Well	14.5	114	141-170	N/A																																			
62	6129 - Mixed Coniferous Lowland Forest	Sapling Well	108.9	41	Unspecified	N/A	Stand dominated by stunted saplings with occasional pole size classes. Infrequent white pine ridges. Grown in old ice road bisects the stand from the east.																																		
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64	4130 - Aspen	Poletimber Well	57.8	26	1-50	N/A	Stand harvested in 1995 as sale #014-93. Portions of the stand are entering small pole size classes. Edges of stand along lowland have a higher component of spruce. Tag alder is low areas within the stand.																																		
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69	4134 - Aspen, Spruce/Fir	Sawtimber Well	30.4	72	81-110	N/A	This multi-part stand was split from the previously larger stand (57) based on previous timber harvests. Stand is currently setup for a timber sale and at the proposal status (FY2021).																																																														
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70	613 - Lowland Mixed Forest	Sapling Medium	36.5	35	Unspecified	N/A	Lowland brush stand of tag alder, cedar and some black spruce. Stand split from the adjacent lowlands to the east based on canopy closure.																																																														
71	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	9.2	70	1-50	N/A	Heavier soils that is seasonally wet ground. Intermixed poles and saplings throughout the site with a semi-open canopy. Some defoliation in the red maple. Hemlock a major component that appear to have been retained last harvest. Stand was harvested in 1986 as sale #023-83 along with the adjacent aspen. Stand was delineated from the surround aspen in 2021.																																																														
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<b>73</b>	429 - Mixed Upland Conifers	Sawtimber Well	23.8	114	81-110	N/A	White pine stand, varies from high steep ridge to lower areas with white pine and red maple. Mixture of species within the stand. Southern portion of the stand nearest the snowmobile trail has higher percentage of hemlock whereas the northern ridges are drier with more red pine component.																																																													
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<b>74</b>	623 - Emergent Wetland	Nonstocked	6.0		Unspecified	No																																																														
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<b>75</b>	6122 - Black Spruce	Sapling Medium	5.9	45	1-50	N/A	Spruce with tamarack, red maple, birch and scattered aspen. Scattered infrequent poles. Tag alder understory in places.																																																													
<b>76</b>	6122 - Black Spruce	Poletimber Poor	4.9	45	1-50	N/A	Stand delineated from the adjacent bog based on canopy closure and size class difference.																																																													
<b>77</b>	6229 - Mixed lowland shrub	Nonstocked	7.3		Unspecified	No																																																														
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<b>78</b>	4220 - Natural White Pine	Sawtimber Medium	2.9	110	111-140	N/A	White pine ridge bordered by private land and lowlands.																																																													