



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42128

Entry Year 2024

Acreage: 3,384

County Luce

Management Area: Tahquamenon Basin Wetlands

Stand Examiner: Lester Livermore

Legal Description:

T45N R8W, Sec. 5-8, 17-18; T46N R8W, Sec. 29, 31-32

Identified Planning Goals:

Timber and wildlife habitat are equally important management goals within the compartment, as the compartment lies within a deer wintering complex. Treatments prescribed will help maintain forest productivity, forest health, species diversity, and age class diversity and continue to enhance the quality of the wildlife habitat. Maintain and/or improve the integrity of the deeryard and surrounding area.

Soil and topography:

Main soil series within the compartment boundary is Carbondale, Lupton and Tawas muck soils. Other soil types include Pickford silt loam, Rudyard-Pickford silt loam, Markey mucky peat, Tawas-Spot-Finch complex, Auger-Annianias silt loam. Topography ranges from wet, lowlands to gentle ridges and knobs.

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

The compartment is mainly continuous State ownership with one private inholding owned by Escanaba Timberland Holding. The compartment is bordering by State land on 3 sides and Escanaba Timberland Holding to the west. Land use is moderate due to limited access and low ground. There are a few permanent homes and camps along M-28 in sections 17 and 18.

Unique Natural Features:

MNFI lists the occurrence of a Fir clubmoss within the compartment. Potential for rare plants of rich mesic forests: Carex assiniboinensis, new england sedge, green spleenwort, Galium kam, showy orchis, Ginseng, male fern, Goblin Fern. Potential for rare plants of dry northern forest and dry mesic northern forest: Dalibarda repens, pine drops. Potential for goshawk in mature pines and hardwoods and RSH in mature hardwoods. Potential for Incurvate Emerald, ebony boghaunter, Frigga fritillary and Freija fritillary in bog and fen habitat. Potential for wood turtle along W Br and E Br Sage River.

Archeological, Historical, and Cultural Features:

None known within the compartment.

Special Management Designations or Considerations:

The southern reaches of the compartment lie within the Sage River Deeryard (Deer Wintering Complex) and is designated as a Special Conservation Area (SCA). Management decisions shall be dictated by the promotion and enhancement of the desired characteristics associated with the winter yarding habitat. Harvesting in these areas will likely take place during winter months.

Watershed and Fisheries Considerations:

This compartment skirts the East Branch Sage River along the east boundary and the Sage River along the north boundary. East Branch Sage River is not a designated trout stream, but is a cold stream supporting a mixture of coolwater species and coldwater species. Any treatments near these waterbodies should have a 100-foot riparian management zone, plus 5 ft per 1% increase in slope. In stands along the East Branch Sage River where aspen is a major component, a 300-foot no clear-cut buffer should be implemented to discourage beaver activity.

Wildlife Habitat Considerations:

Compartment 128 is in southern Luce county in the St. Ignace ecological sub-subsection and in the Tahquamenon River Basin Wetlands Management Area where white-tailed deer, black bear, snowshoe hare and gray jay are featured species. The southern portion of the compartment lies in the Hulbert-Sage River Deer Wintering Complex which supports high numbers of deer during stressful winter periods. A plan guides the harvest of stands within the complex. There is wildlife purchased lands within the compartment. The vast majority of the compartment is cedar and spruce with a component of aspen and a smattering of northern hardwoods.

Language will be used to maximize important cover components of harvests (including leaving all cedar and hemlock)

occurring in the deer wintering complex, with those harvests occurring during winter months to benefit wintering deer. Additional wildlife objectives will be achieved by retaining a conifer component in the harvested aspen and northern hardwoods. In addition to featured species, wildlife species expected to use the compartment include moose, ruffed grouse, gray wolf, coyote and bobcat.

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 known active sand/gravel pit is more than five miles away. There may be some potential for sand & gravel within the compartment, but the compartment is dominated by wetlands, which would inhibit surface mining. No current State mineral leasing activity exists in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

M-28 runs east and west through the southern portion of the compartment and the Borgstrom Road is the compartment's west boundary in its southern half. Other vehicle access is limited due to private property issues.

Survey Needs:

Section 18.

Recreational Facilities and Opportunities:

The main recreational opportunities include fishing and hunting. Recreational opportunities are limited due to access issues relating to private property.

Fire Protection:

Large fires in this compartment are not likely because of the hardwood and mixed lowland conifer/hardwood types. Access with heavy wheeled suppression vehicles is limited and alternative suppression tactics may be needed.

Additional Compartment Information:

The following reports from the Inventory are attached:

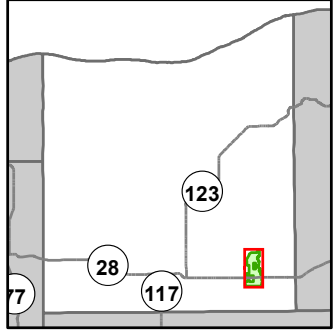
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

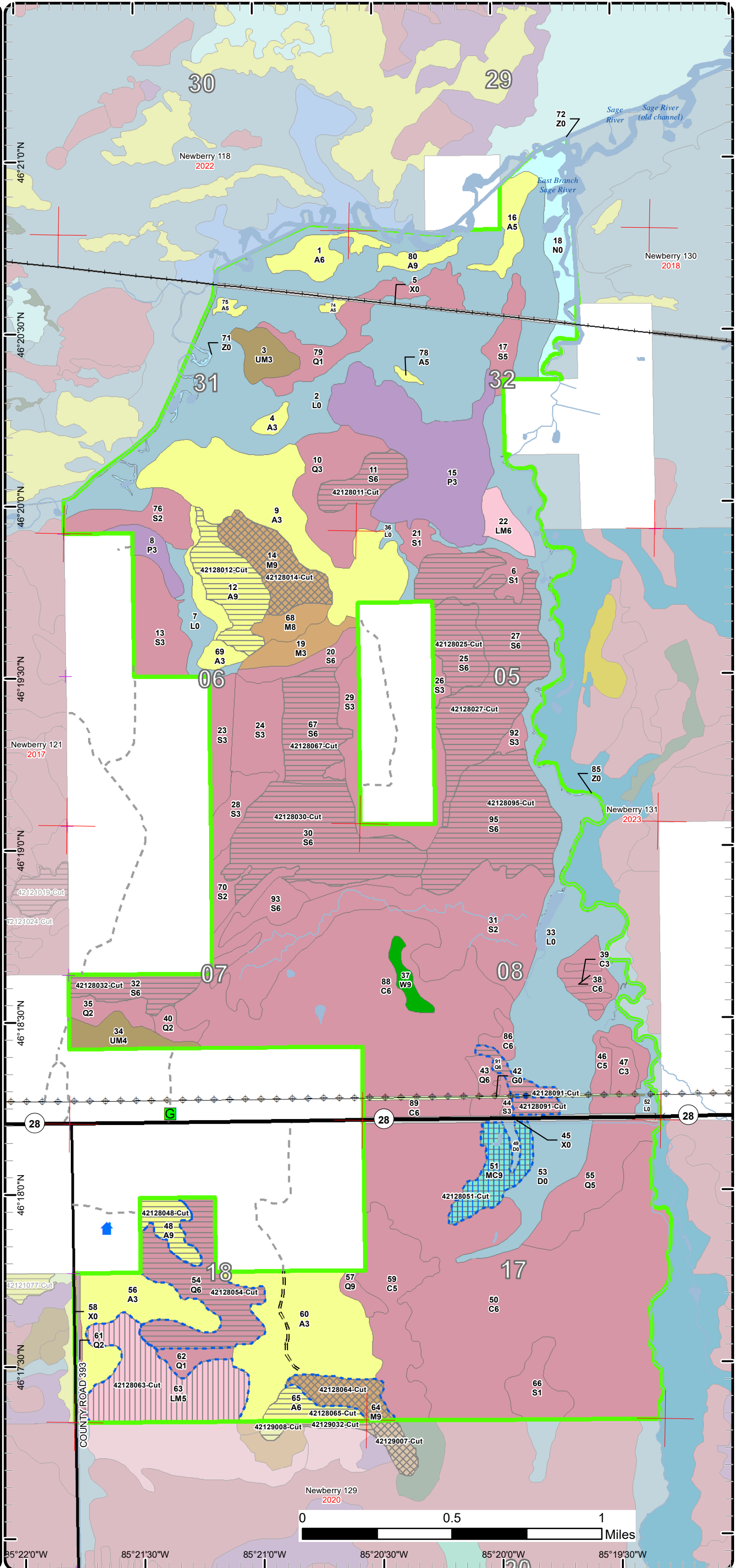
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 128
 T45N, R08W, Sec. 5-8, 17, 18
 T46N, R08W, Sec. 29, 31, 32
 County: Luce
 Unit: Newberry
 Mgmt Area: Tahquamenon Basin
 Wetlands
 YOY: 2024
 Acres: 3384.5 GIS Calculated
 Examiner: Lester Livermore
 Map Revised: 1/6/2023
 Map Phase: Post-Review

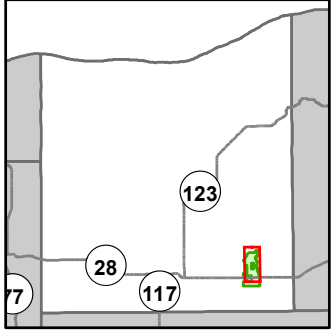


- Miris Corners
- Remonumented Section Corners
- - - Counties
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - Private - Dirt / Gravel Road
- Active Railroads
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- House
- Gate
- Bridges
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
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- 430 - Upland Mixed Forest
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- 622 - Lowland Shrub
- 623 - Emergent Wetland

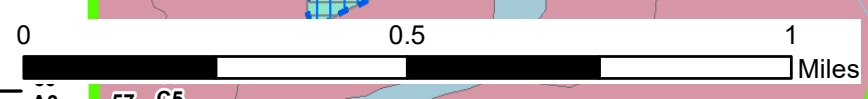
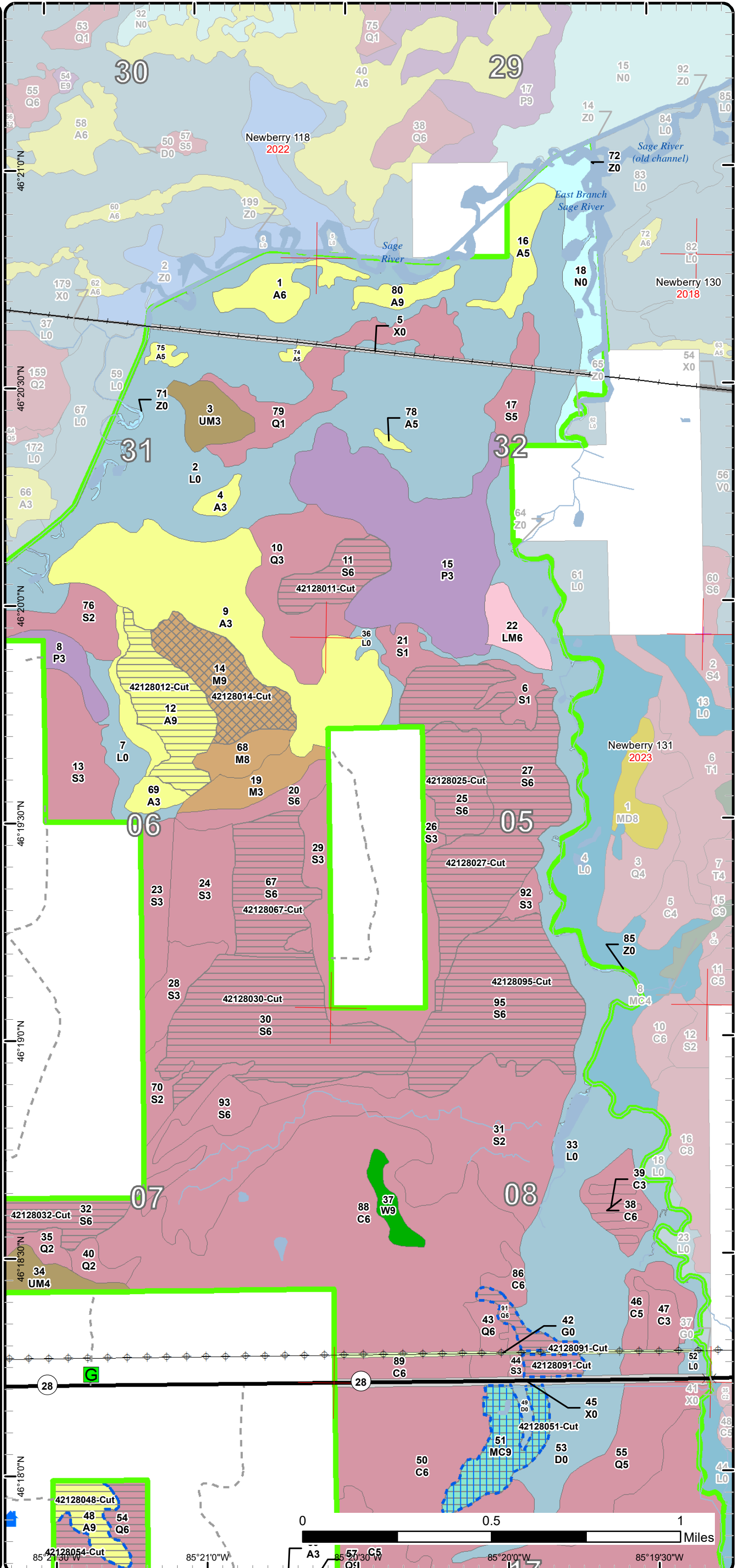


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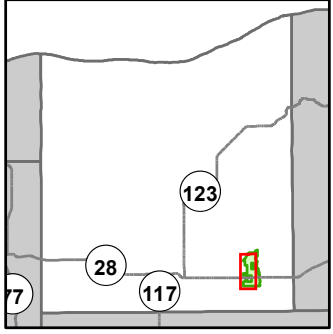
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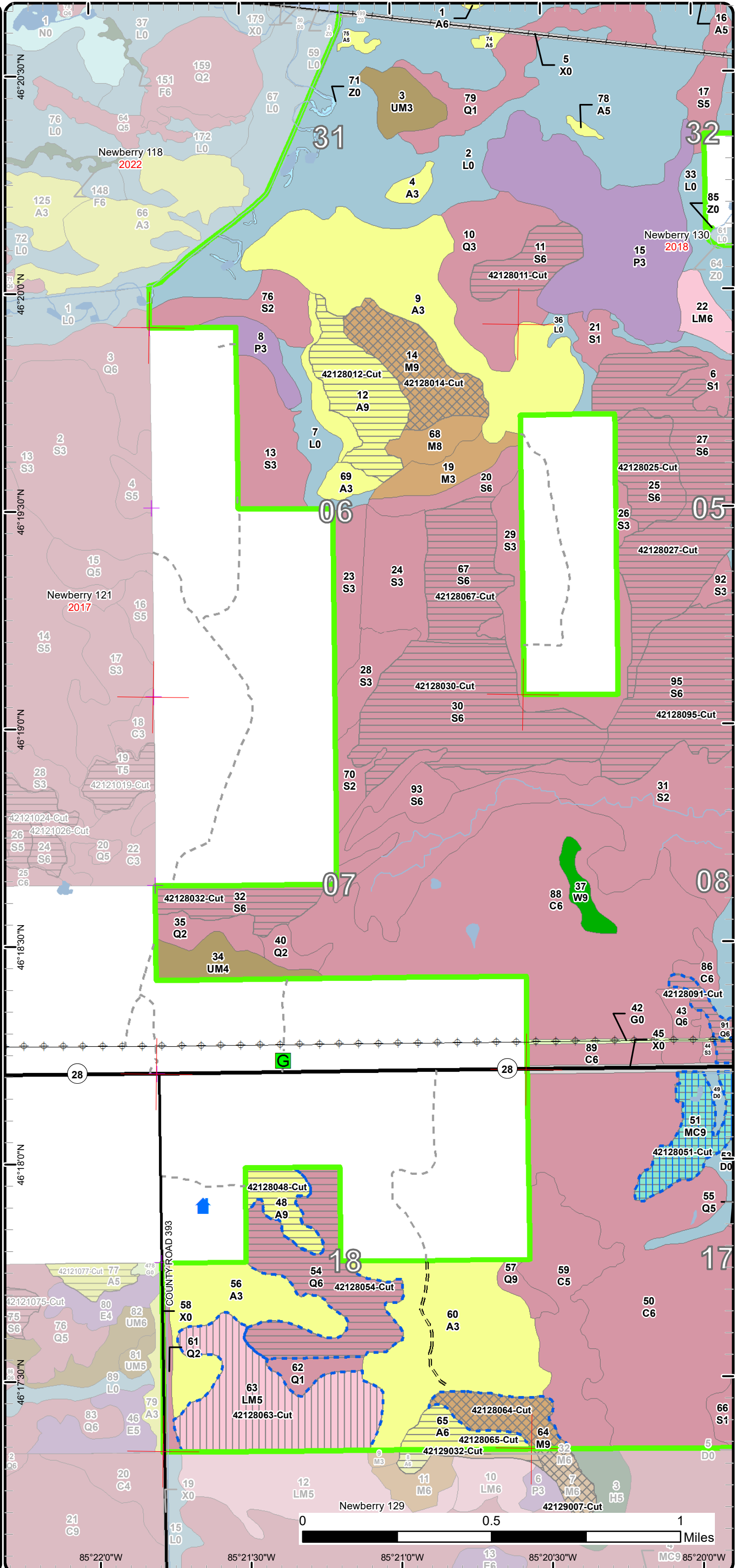
85°21'0"W 85°20'30"W 85°20'0"W 85°19'30"W

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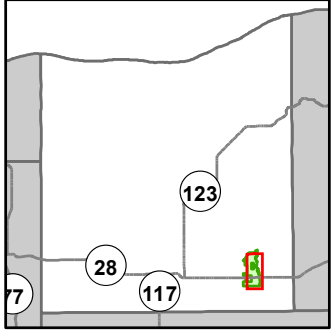


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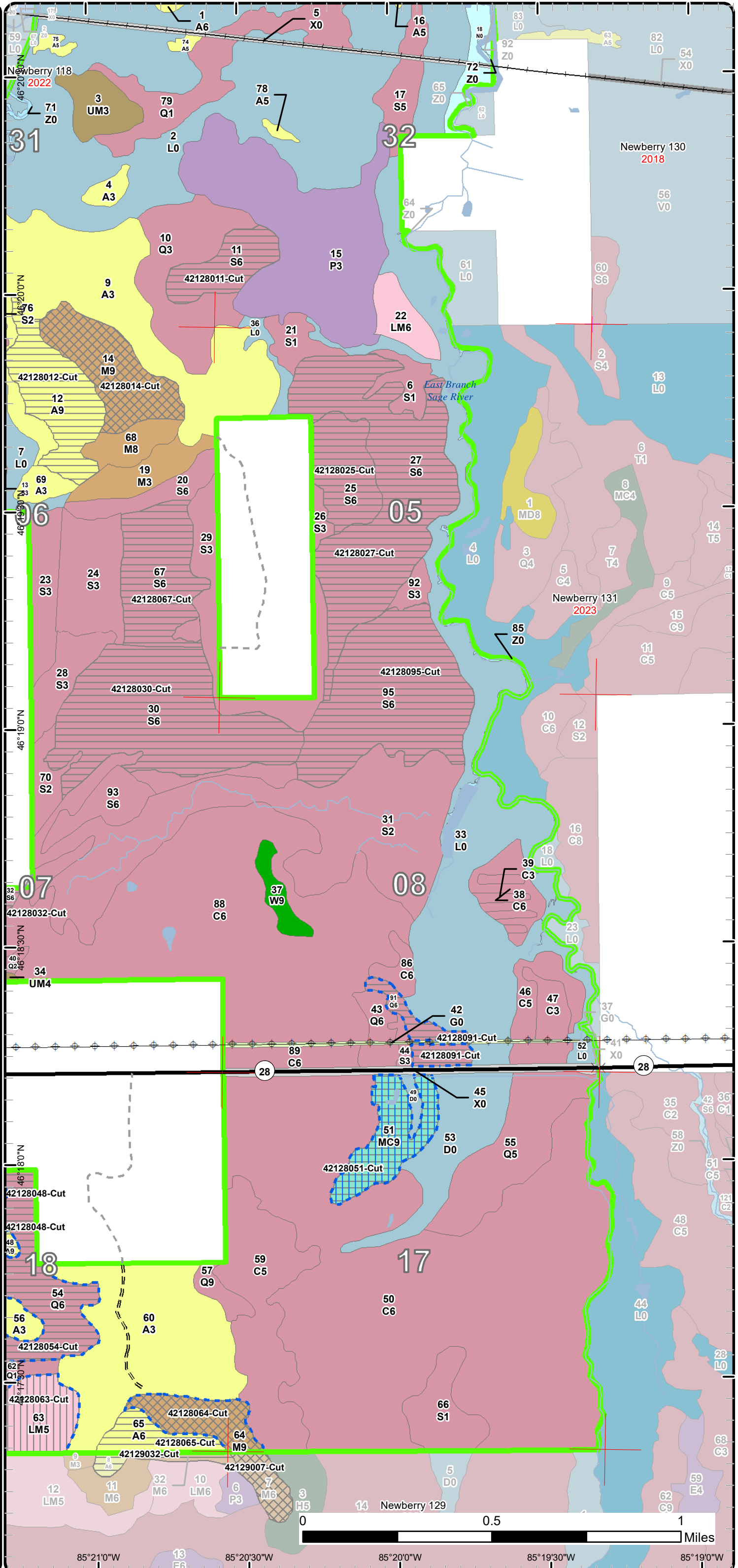


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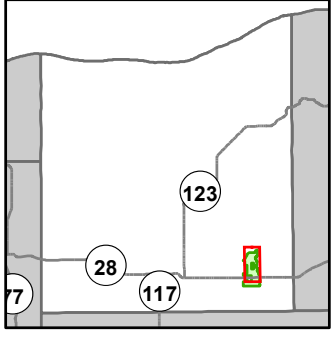


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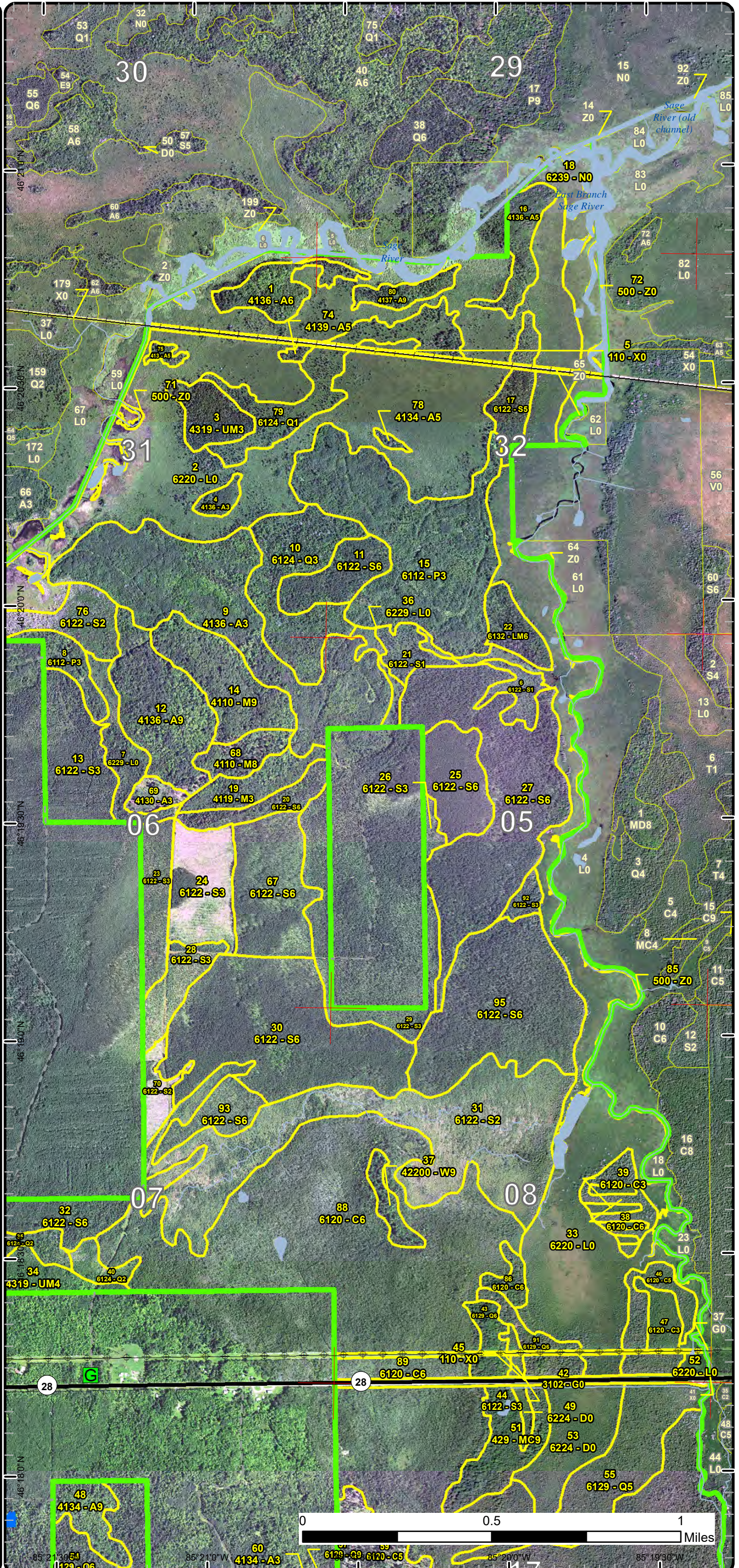


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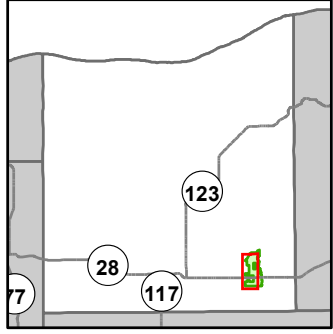


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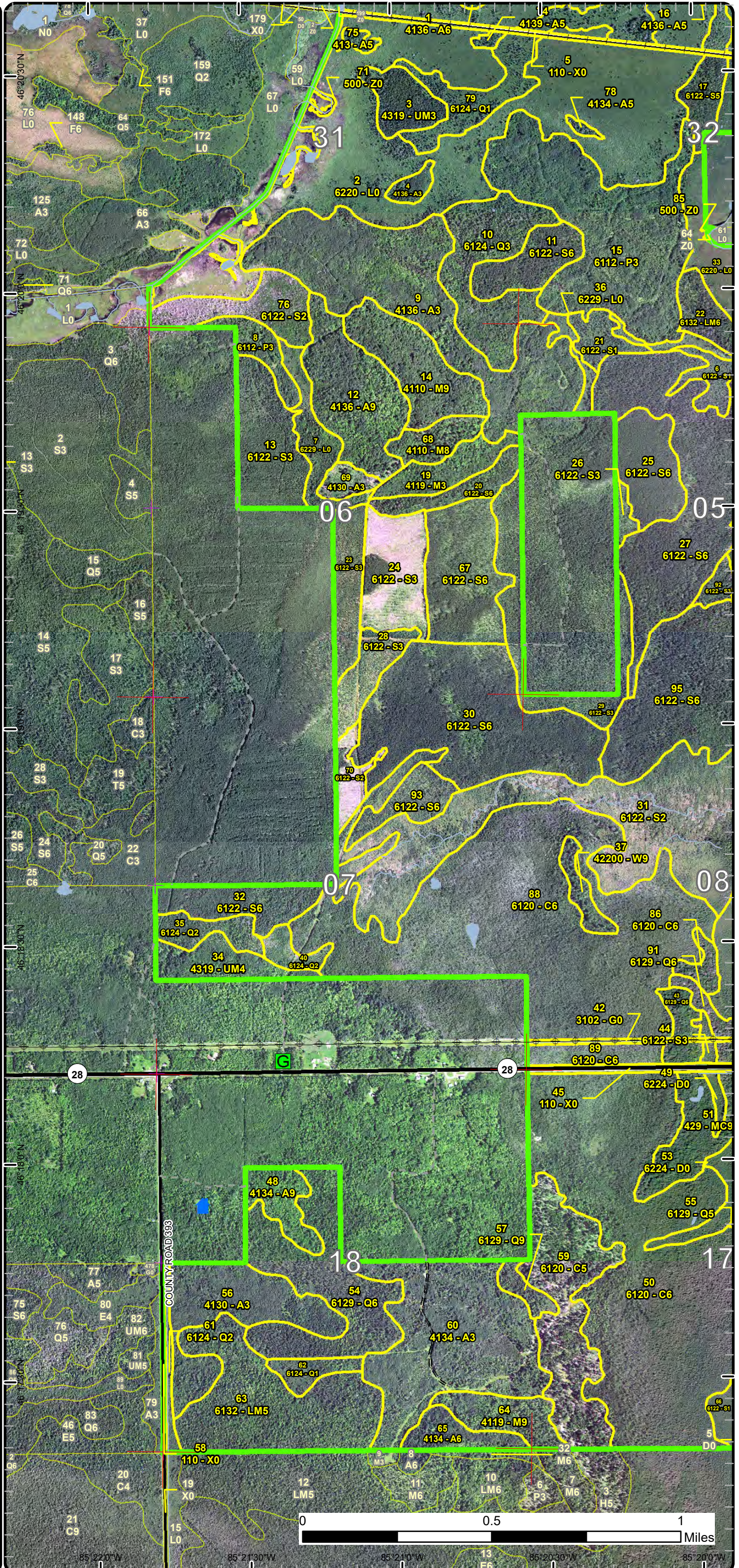


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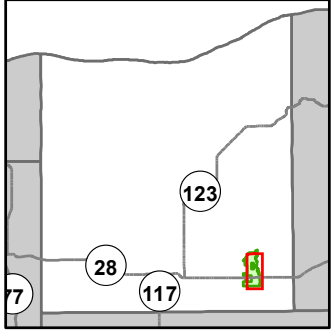


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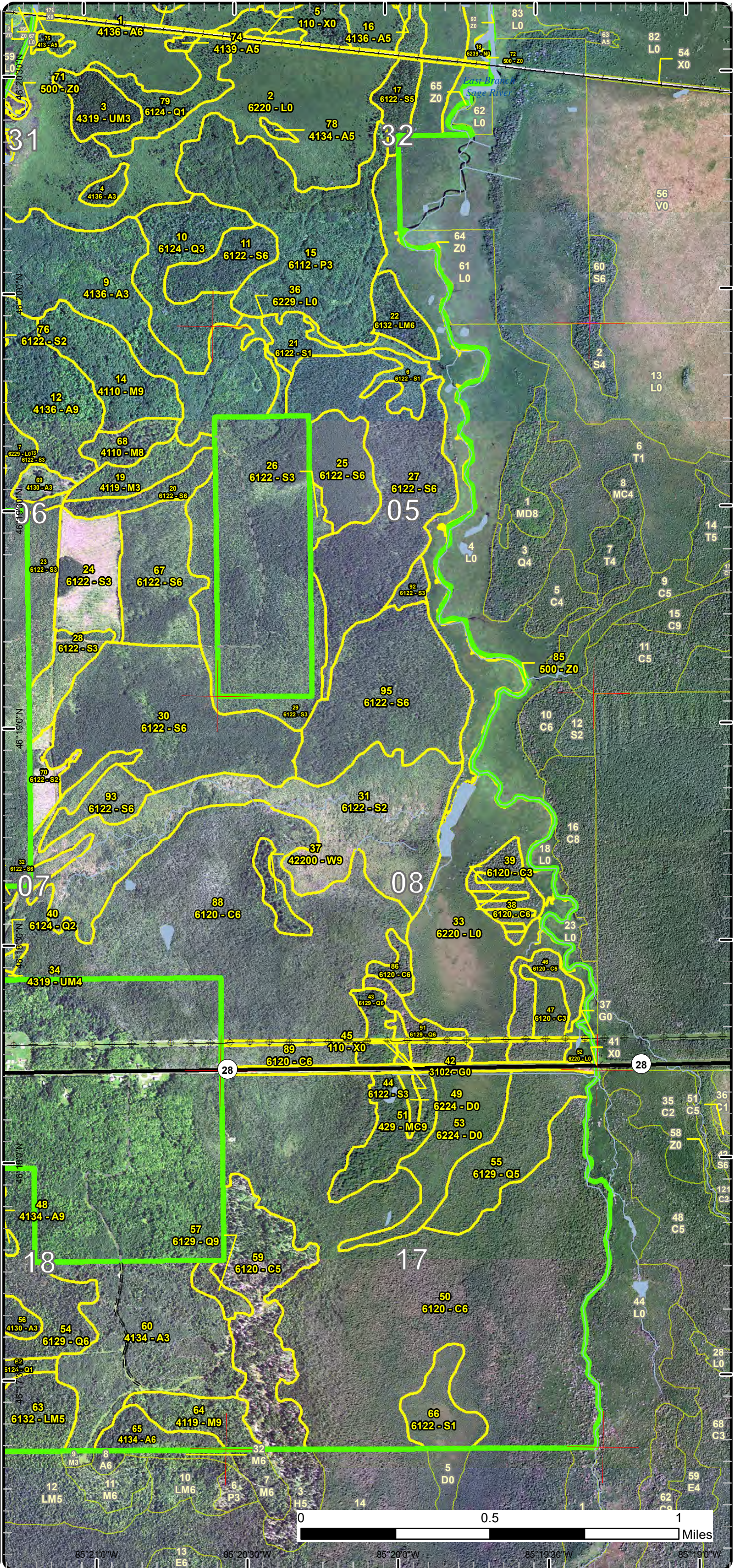


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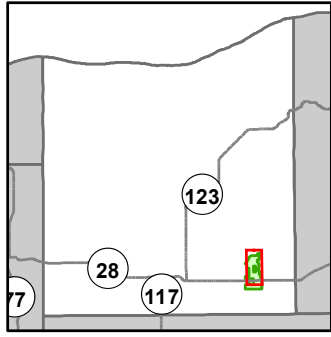


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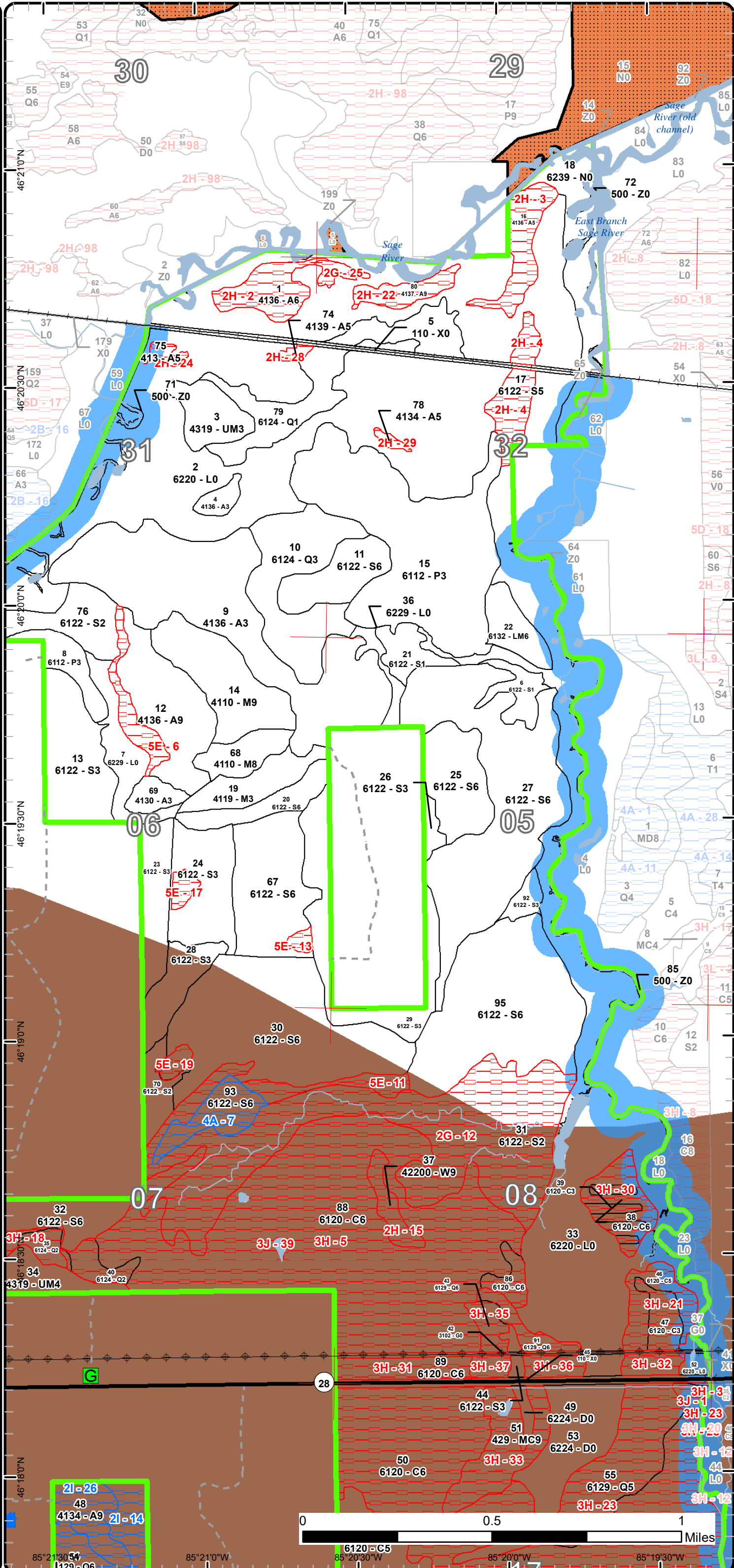


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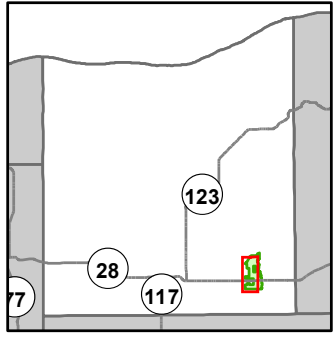


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- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 4A: No Markets Available for these Forest Products
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Other Habitat Area

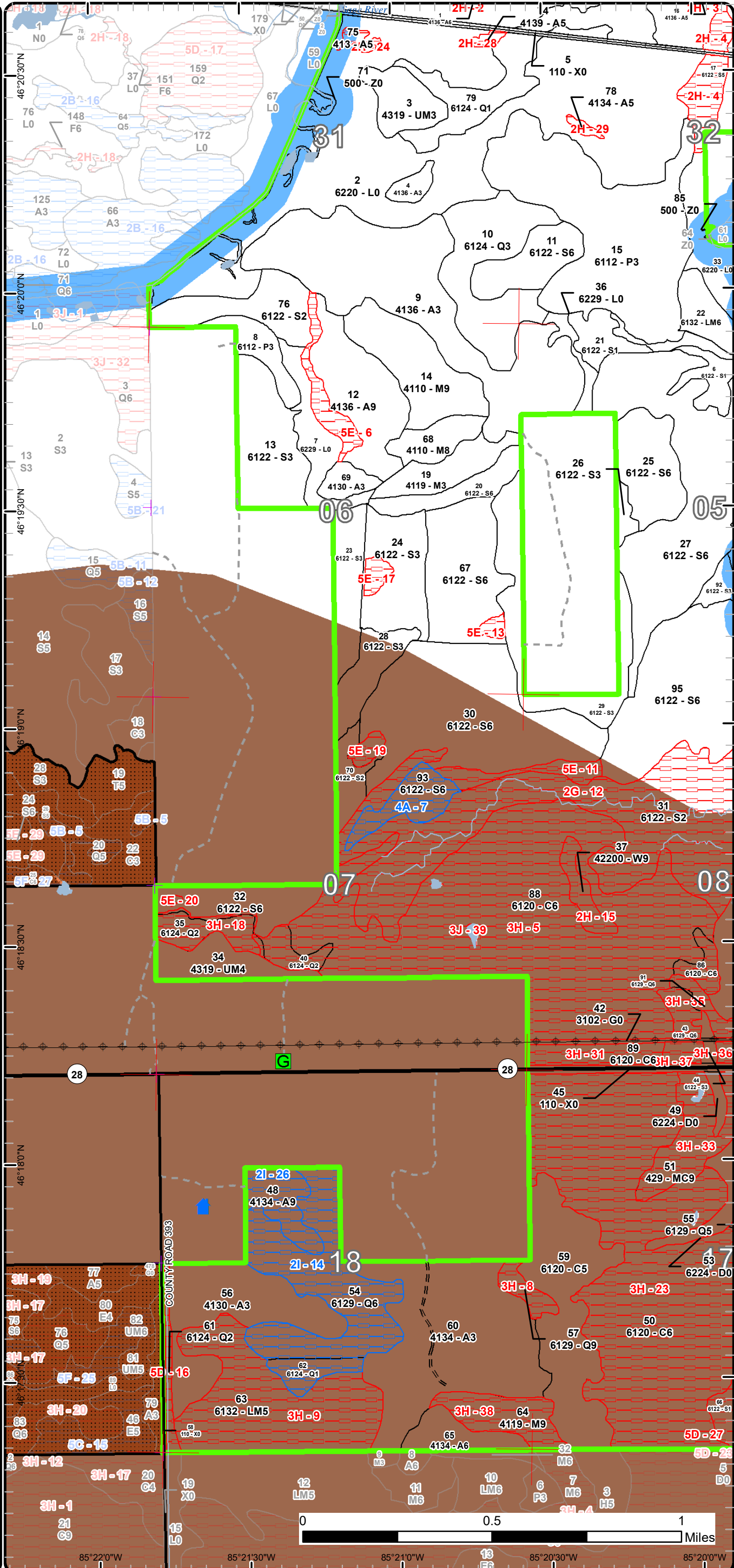


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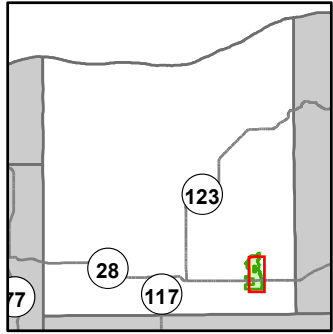


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- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
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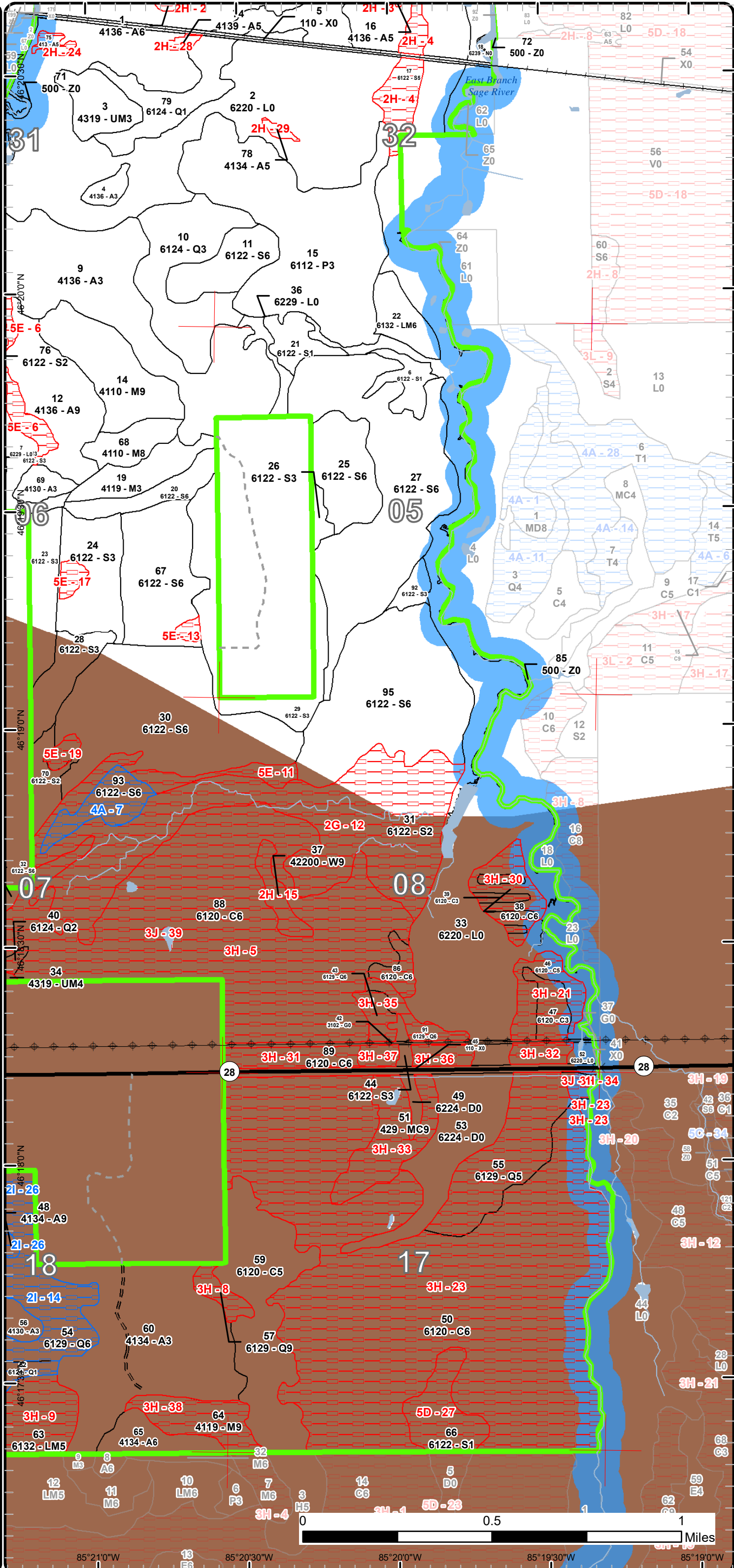


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- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 128 Year of Entry 2024

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	7	0	217	49	2	18	50	9	16	36	0	0	0	0	0	0	0	404
Cedar	0	0	0	0	0	15	0	0	0	0	65	0	14	0	0	688	0	0	782
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
Lowland Conifers	0	0	0	49	20	48	9	0	10	60	7	66	0	0	0	0	0	0	268
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	90
Lowland Shrub	555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	555
Lowland Spruce/Fir	0	44	0	0	26	114	62	153	0	25	0	416	21	0	0	0	0	0	858
Marsh	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	0	0	18	0	0	0	0	0	0	71	0	0	0	0	0	0	0	89
Treed Bog	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	28
Upland Mixed Forest	0	0	0	17	0	0	20	0	0	0	0	0	0	0	0	0	0	0	37
Urban	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Water	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
White Pine	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Total	696	51	0	426	95	179	109	203	19	101	179	581	63	0	0	688	0	0	3385



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 128

Total Compartment Acres: 3,384

Commercial Harvest - 509
 Harvests with Site Condition - 219
 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	70	0	0	0	0	0	0	0	0	70
Lowland Conifers	79	0	0	0	0	0	0	0	0	79
Lowland Mixed Forest	0	0	0	0	76	0	0	0	0	76
Lowland Spruce/Fir	417	0	0	0	0	0	0	0	0	417
Northern Hardwood	0	58	0	0	0	0	0	0	0	58
Upland Conifers	0	0	0	28	0	0	0	0	0	28
Total	566	58	0	28	76	0	0	0	0	728

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	728	0	0	0	0	0	0	0	0	728
Next Step	0	0	0	0	0	0	728	0	0	728
Total	728	0	0	0	0	0	728	0	0	1456



Stand Name	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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Proposed Treatments:

7	42129007-Cut	10.1	411 - Northern Hardwood	Poletimber Well	95	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<u>Prescription</u> Retain approximately 70 sq. ft. basal area targeting good quality maple poles where possible. Retain all hemlock.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Maple, yellow birch,											
<u>Other Comment:</u> OOOYE to align with adjacent stand. Some areas may be a light thinning. Winter harvest. No Chipping.											
<u>Site Condition</u> Deer Wintering Area											
<u>Proposed Start Date:</u> 10/1 /2023											
8	42129008-Cut	2.8	413 - Aspen	Poletimber Well	53	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<u>Prescription</u> Harvest all species present. No retention due to small acreage.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Aspen, maple, birch, cherry, ash, spruce and fir, white pine and hemlock.											
<u>Other Comment:</u> OOOYE to align with adjacent stand. Winter harvest. No Chipping.											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2023											
32	42129032-Cut	4.3	411 - Northern Hardwood	Poletimber Well	95	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<u>Prescription</u> Harvest all species present except hemlock if present, creating new even age class. No retention due to small acreage.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Aspen, birch, cherry, maple, spruce, fir, white pine, hemlock and cedar.											
<u>Other Comment:</u> OOOYE to align with adjacent stand. Winter harvest. No Chipping.											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2023											

Approved Treatments:

11	42128011-Cut	21.3	6122 - Black Spruce	Poletimber Well	116	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<u>Prescription</u> Harvest all species present. Pocket retention 3 - 5% of stand area. Include red maple, birch and/or aspen within pockets where present.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Spruce, fir, tamarack, red maple, paper birch and balsam poplar.											
<u>Other Comment:</u> Winter harvest. No Chipping.											



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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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Site Condition

Proposed Start Date: 10/1 /2023

12	42128012-Cut	39.5	4136 - Aspen, Mixed Conifer	Sawtimber Well	69	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all species present except retain hemlock. Pocket retention in area of cedar.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with maple, birch, spruce, fir, cedar, hemlock and white pine.

Regen:

Other Stand previously setup and not harvested except adjacent stand to the south. Long term retention delineated based on previous sale setup.

Comment: Winter harvest. No Chipping.

Site Condition

Proposed Start Date: 10/1 /2023

14	42128014-Cut	37.7	4110 - Sugar Maple Association	Sawtimber Well	99	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Reduce basal area to approximately 90 sq. ft, targeting overmature and lower quality individuals for harvest, following standard marking guidelines. Retain a component of conifer and all hemlock where present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar maple with red maple, ash, yellow birch, and hemlock.

Regen:

Other Winter harvest. No Chipping.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

25	42128025-Cut	27.9	6122 - Black Spruce	Poletimber Well	108	141-170	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Harvest all species present. Pocket retention 3 - 5% of stand acreage. Retain hemlock and white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce, tamarack, cedar, white pine.

Regen:

Other Road construction needed into stand from the west upon sale operations. Winter harvest. No Chipping.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



Stand Name	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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27	42128027-Cut	110.0	6122 - Black Spruce	Poletimber Well	108	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Harvest all species present. Pocket retention 3 - 5% of stand acreage. Retain hemlock and white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce, tamarack, cedar, white pine.

Regen:

Other Road construction needed into stand from the west upon sale operations. Winter harvest.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

30	42128030-Cut	99.6	6122 - Black Spruce	Poletimber Well	106	141-170	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Harvest all species present. Pocket retention 3 - 5% of treatment area.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce, tamarack, cedar, white pine.

Regen:

Other Previous sale prep retention pocket (western) and potential retention pocket (southern) built into treatment and SC layer. Winter harvest.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

32	42128032-Cut	24.7	6122 - Black Spruce	Poletimber Well	89	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Harvest all species present except retain hemlock if it exists for wintering deer. Pocket retention 3 - 5% of stand acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce, cedar, tamarack, white pine.

Regen:

Other Previous sale set-up retention built into treatment. Winter harvest. No Chipping.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

48	42128048-Cut	16.0	4134 - Aspen, Spruce/Fir	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all species present except retain hemlock and cedar when in clumps of three or more trees. Pocket retention 3 - 5%.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with spruce, fir, birch, red maple, hemlock, and white pine.

Regen:

Other Treatment is within DWC pilot plan. Winter harvest. No Chipping.

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023



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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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51	42128051-Cut	28.2	429 - Mixed Upland Conifers	Sawtimber Well	115	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Harvest all species while retaining 10 - 20 basal area of white pine, especially when in association with hemlock or cedar. Retain all hemlock and cedar where density precludes cutting of other species, leave as a retention pocket. Retain dense sub-merchantable pockets of balsam fir.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable White pine, spruce, cedar, fir, paper birch, red maple, aspen and tamarack.

Regen:

Other Acreage may change due to lowland inclusions. Winter harvest. Site conditioned: Not in the DWC 'pilot' plan. Winter harvest. No Chipping.

Comment:

Site Condition Deer Wintering Area

Proposed Start Date: 10/1 /2023

54	42128054-Cut	65.8	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	101	81-110	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
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Prescription Harvest all species present while retaining all hemlock. Retain cedar except where needed for maneuverability. Retain white pine when in association with hemlock or cedar.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, fir, cedar, white pine, hemlock with aspen, birch, red maple and tamarack.

Regen:

Other Stand within DWC pilot plan. Winter harvest. No Chipping.

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023

63	42128063-Cut	76.1	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	101	81-110	Harvest	Shelterwood with Retention	6132 - Mixed Lowland Forest with Cedar	Two-Aged	No
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Prescription Retain 30 - 50 basal area of good quality red maple and yellow birch poles and cedar. Retain all hemlock and white pine. Create retention pockets where cedar density precludes cutting of other species. Retain dense sub-merchantable pockets of balsam fir.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Red maple, aspen and birch, spruce, fir, cedar, hemlock, white pine, and ash.

Regen:

Other Access from Borgstrom road from west, opening old grade. Site conditioned: Not in the DWC 'pilot' plan. Winter harvest. No Chipping.

Comment:

Site Condition Deer Wintering Area

Proposed Start Date: 10/1 /2023



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
64	42128064-Cut	19.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	96	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Retain approximately 70 sq. ft. basal area targeting good quality maple poles where possible. Retain all hemlock. Retain some larger aspen in the red line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, birch, aspen, spruce, fir, hemlock and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Some areas will be a light thinning. Winter harvest. No Chipping.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Deer Wintering Area</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
65	42128065-Cut	14.2	4134 - Aspen, Spruce/Fir	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all species present. Pocket retention 3 - 5%. Retain all hemlock and cedar if present. Where cedar density precludes cutting of other species, leave as a retention pocket. Retain dense sub-merchantable pockets of balsam fir.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, birch, cherry, spruce, fir, white pine and hemlock.</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment is within the DWC pilot plan. Winter harvest. No Chipping.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
67	42128067-Cut	43.9	6122 - Black Spruce	Poletimber Well	108	141-170	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest all species present. Pocket retention 3 - 5% of treatment area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Black spruce, tamarack, cedar and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention pocket built into treatment geometry and SC layer. Winter harvest. No Chipping.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
91	42128091-Cut	13.4	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	88	81-110	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all species present except retain all hemlock and cedar. Pocket retention 3 - 5%. Retention pockets in areas where cedar density precludes cutting of other species to benefit wintering deer. Retain dense sub-merchantable pockets of balsam fir.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Spruce, fir, tamarack, cedar with red maple, paper birch and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest. Acreage may change due to wet soil conditions. Site conditioned: Not in the DWC 'pilot' plan. Winter harvest. No Chipping.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Deer Wintering Area</p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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95	42128095-Cut	89.9	6122 - Black Spruce	Poletimber	106	141-170	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Harvest all species present. Pocket retention 3 - 5% of stand acreage. Retain hemlock and white pine.

Specs:

Next Step ; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Black spruce, tamarack, cedar, white pine.

Regen:

Other Road construction needed into stand from the west upon sale operations. Winter harvest. No Chipping.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

Total Treatment Acreage Proposed: 745.2

Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 128

Lester Livermore : Examiner

Year of Entry: 2024

Availability for Management

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

Dominant Site Conditions

	Total Acres	Acres Available	Acres <i>With Condition</i>	Acres Not Available	Dominant Site Conditions								
					2I	4A	2G	2H	3H	3J	5D	5E	
404	327	16	62	Aspen	16		3	48					10
781	65	0	716	Cedar					714	2			
6	6	0	0	Herbaceous Openland									
125	125	0	0	Lowland Aspen/Balsam Poplar									
268	91	75	103	Lowland Conifers	75				94	3	6		
90	14	0	76	Lowland Mixed Forest					76				
555	555	0	0	Lowland Shrub				0					
859	637	16	207	Lowland Spruce/Fir		16	148	17	1		22	18	
35	35	0	0	Marsh				0					
88	68	0	20	Northern Hardwood					20				
43	43	0	0	Treed Bog									
28	0	0	28	Upland Conifers					28				
37	37	0	0	Upland Mixed Forest					0				
26	26	0	0	Urban						0			
30	30	0	0	Water				0	0	0			
8	0	0	8	White Pine				8					
3,384	2,058	106	1,220	Total Forested Acres	91	16	152	73	934	5	28	28	
	61%	3%	36%	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	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: RMZ East Branch Sage River.							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							

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3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	252	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard. Cedar type on purchased lands.							
6	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention from previous sale setup.							
7	Available	4A: No Markets Available for these Forest Products	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Spruce dead from flooding.							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments:							

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9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	76	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand not within DWC 'pilot' plan.							
11	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Projected retention for stands 30 and 95.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	148	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	2I: Survey needed	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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16	Unavailable	5D: Unproductive Forest Land	6				
Comments:							
17	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Obligate deer yard. Cedar type on purchased lands.							

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22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	451	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard. Cedar type on purchased lands.							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	2I: Survey needed	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5D: Unproductive Forest Land	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Compartment: 128

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28	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard. Cedar type on purchased lands.							
31	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard. Cedar type on purchased lands.							
32	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard. Cedar type on purchased lands.							

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Compartment: 128

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33	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stands not targeted in the 'pilot' DWC operation plan.							
34	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard. Cedar type on purchased lands.							
35	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stands not targeted in the 'pilot' DWC operation plan.							
36	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stands not targeted in the 'pilot' DWC operation plan.							
37	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stands not targeted in the 'pilot' DWC operation plan.							

Report 4 – Site Conditions

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Compartment: 128

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Year of Entry: 2024

38	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Site conditioned: Not in the DWC 'pilot' plan.							
39	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water 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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
1	4136 - Aspen, Mixed Conifer	Poletimber Well	19.2	98	51-80	N/A																																				
2	6220 - Alder/willow	Nonstocked	345.2			No	Large lowland complex; split by railroad. Major portions of the site flood seasonally.																																			
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3	4319 - Mixed Upland Forest	Sapling Well	16.9	24	1-50	N/A	Stand harvested as sale #20-94. Young aspen with mix of conifers. Canopy data from 2012.																																			
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5	110 - Low Intensity Urban	Nonstocked	9.9			No	Railroad track and ROW																																			
6	6122 - Black Spruce	Sapling Poor	9.8	56	1-50	N/A																																				
7	6229 - Mixed lowland shrub	Nonstocked	18.6			No	Edges have scattered small poles of maple and aspen. Mostly stunted spruce or wet shrub.																																			



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8	6112 - Lowland Aspen	Sapling Well	12.3	24		N/A	Stand harvested as sale #29-94. Lowland aspen. A few higher areas within the stand but mostly a low ground aspen stand.																																																								
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9	4136 - Aspen, Mixed Conifer	Sapling Well	114.4	24	Immature	N/A	Stand harvested as sale #'s 20, 28 and 29-94. Complete 1999. Aspen stand with a mix of species. Good cedar pole component (residual left after harvest). Deer browse evidence.																																																								
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10	6124 - Lowland Spruce-Fir	Sapling Well	48.5	24	Immature	N/A	Stand harvested as part of sales #20, 28 and 29-04. Complete in 1999. This stand is lower and contains a higher lowland conifer component than the adjacent aspen stands.																																																								
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11	6122 - Black Spruce	Poletimber Well	21.3	116	81-110	N/A	Small crowns, black spruce. Mainly 3 stick spruce, 6-8 inches in diameter. Lowland stand.																																																								
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14	4110 - Sugar Maple Association	Sawtimber Well	37.7	99	141-170	N/A	Un-cut portion of timber sale Far Ranging Rovers 42-002-14.																																																																				
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15	6112 - Lowland Aspen	Sapling Well	112.3	24	Immature	N/A	Stand was harvested as sales #'s 20, 28, and 29-04. Complete 1999. Young aspen, mainly low ground. Some high ground. Mixed with white birch, balsam, black spruce, tamarack. Some residual cedar poles, many blown down.																																																																				
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16	4136 - Aspen, Mixed Conifer	Poletimber Medium	17.1	98		N/A																																																																					
17	6122 - Black Spruce	Poletimber Medium	16.5	108		N/A	Stand split by railroad.																																																																				
18	6239 - Mixed Emergent Wetland	Nonstocked	35.5		Unspecified	No																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	4119 - Mixed Northern Hardwoods	Sapling Well	17.8	29	Immature	N/A	Portion of sale #42-029-94. Stand entering pole sizes in some areas.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		40	Sapling	3	29	Red Maple	
Quaking Aspen		15	Sapling	3		Quaking Aspen	
Black Spruce		10	Sapling/Pole	4		Balsam Fir	
Balsam Fir		15	Sapling	2		Black Spruce	
Sugar Maple		20	Pole/Sapling	5			
						Density	Avg. Height
							Size
20	6122 - Black Spruce	Poletimber Well	14.4	43	Unspecified	N/A	Small diameter spruce, short heights. Cedar and tamarack mixed in throughout the stand. Small drainage runs through the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		61	Pole/Sapling	5	43	Black Spruce	
Northern White Cedar		25	Sapling/Pole	4			
Tamarack		10	Sapling	3			
Paper Birch		1	Sapling/Pole	4			
Quaking Aspen		3	Sapling/Pole	3			
						Density	Avg. Height
							Size
21	6122 - Black Spruce	Sapling Poor	10.7	56	1-50	N/A	Stunted sapling canopy; semi open with tag alder. Stand seasonally floods in some areas.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		80	Sapling	1	56	Tag Alder	
Tamarack		10	Sapling	1			
Red Maple		5	Sapling	1			
Paper Birch		5	Sapling	1			
						Density	Avg. Height
							Size
22	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	13.8	108		N/A	
23	6122 - Black Spruce	Sapling Well	21.0	45	1-50	N/A	Western portion of sale #01-77. Residual black spruce were left after the harvest. Sparse black spruce regeneration in comparison to eastern portion of sale area where overstory was removed. Semi open stand now, small crowns.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		100	Sapling/Pole	4	45	Black Spruce	
						Density	Avg. Height
							Size
24	6122 - Black Spruce	Sapling Well	33.6	6	Immature	N/A	Stand fully regenerated with black spruce with minor components of tamarack and red maple and cherry; Regen 2 - 4' tall. Stand harvested via Clearcut with retention: Far Ranging Rovers Spruce #42-002-14. Stand was split upon TCR based on what was cut. Only a portion of the sale was harvested based on saturated soil conditions; see final inspection TCR for more details.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		80	Sapling	1	6	Black Spruce	
Tamarack		10	Sapling	1			
Red Maple		5	Sapling	1			
Paper Birch		5	Sapling	1			
						Density	Avg. Height
							Size
25	6122 - Black Spruce	Poletimber Well	27.9	108	141-170	N/A	Tall black spruce; 3-5 sticks of merchantable height. Dense mature stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	6122 - Black Spruce	Sapling Well	4.1	45	1-50	N/A	Nice spruce regeneration. Cut as sale numbers 01-77 and 03-78.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		2	Sapling	2		Black Spruce	
Tamarack		8	Sapling	2		Medium	
Black Spruce		90	Sapling/Pole	4	45	< 5 feet	
						Sapling	
27	6122 - Black Spruce	Poletimber Well	110.0	108	111-140	N/A	Slightly lower basal area than spruce stands to the west. Eastern portion of the stand decreases in size and heights as you get closer to the river.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		100	Pole	8	108	Black Spruce	
						Medium	
						5 - 10 feet	
						Sapling	
28	6122 - Black Spruce	Sapling Well	17.1	46	1-50	N/A	Stand was harvested as sale #42-001-77. Nice black spruce regeneration, fairly thick. Best regeneration is in the southwest corner of the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		100	Sapling	3	46	Black Spruce	
						Medium	
						Variable	
						Sapling	
29	6122 - Black Spruce	Sapling Well	35.2	45	1-50	N/A	Nice spruce regeneration, some individuals entering pole size. Stand harvested as #42-001-77 and #42-003-78.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		2	Sapling/Pole	4		Black Spruce	
Tamarack		8	Sapling	3		Medium	
Black Spruce		90	Sapling/Pole	4	45	Variable	
						Sapling	
30	6122 - Black Spruce	Poletimber Well	108.8	106	141-170	N/A	Tall, thick black spruce stand. Good merchantable heights. Some runs of smaller diameter trees. Stand is mature, ready to be harvested.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		2	Pole	8		Black Spruce	
Black Spruce		98	Pole	9	106	Medium	
						Variable	
						Sapling	
31	6122 - Black Spruce	Sapling Medium	148.3	66	1-50	N/A	Short, small diameter mixed conifer stand. Inclusions of non-forested pockets throughout
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		30	Sapling	3		Northern White Cedar	
Black Spruce		50	Sapling/Pole	4	66	Medium	
Northern White Cedar		20	Sapling	3		Medium	
						< 5 feet	
						Sapling	
32	6122 - Black Spruce	Poletimber Well	24.7	89	81-110	N/A	This stand was set-up with Far Ranging Rovers Spruce #42-002-14 but was not harvested. Pockets of nicer timber. South half of the stand has higher cedar component.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		5	Pole	5		Black Spruce	
Northern White Cedar		10	Pole	6		Medium	
Black Spruce		85	Pole	7	89	10 - 20 feet	
						Sapling	
33	6220 - Alder/willow	Nonstocked	182.4			No	
Sub-Canopy Species		Density	Avg. Height	Size			
Tamarack		Low		Sapling			
Northern White Cedar		Low		Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
34	4319 - Mixed Upland Forest	Poletimber Poor	19.8	53	1-50	N/A																																																			
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35	6124 - Lowland Spruce-Fir	Sapling Medium	12.7	38	1-50	N/A	Stand delineated from stand 32 to the north based on stocking, site index and water levels. Mortality within the stand. Stumps are evidence that stand must have been cut as part of sale #47-85. Good regeneration starting to fill in the stand. Black Spruce, cedar, balsam, white birch, tamarack, aspen.																																																		
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36	6229 - Mixed lowland shrub	Nonstocked	5.9	0	Unspecified	No																																																			
37	42200 - Natural White Pine	Sawtimber Well	8.5	105	111-140	N/A																																																			
38	6120 - Lowland Cedar	Poletimber Well	13.5	115		N/A	Cedar dominated lowlands. Un-cut portion of the site that was strip cut harvested in 1974.																																																		
39	6120 - Lowland Cedar	Sapling Well	6.4	49		N/A	Strip cuts of cedar regeneration from 1974 harvest.																																																		
40	6124 - Lowland Spruce-Fir	Sapling Medium	7.4	38	1-50	N/A	Lowland conifer stand. Stumps are evidence that stand must have been cut as part of sale #47-85. Good regeneration starting to fill in the stand. Black Spruce, cedar, balsam, white birch, tamarack, aspen.																																																		
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42	3102 - Grass	Nonstocked	6.3			No	Powerline ROW.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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43	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	10.2	73	81-110	N/A	Intermediate lowland ground dominated by black spruce with an older age class of white pine. Infrequent red maple and paper birch. Higher white pine canopy coverage south of highway. Infrequent cedar Regen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		37	Log	12		Red Maple		Low	Variable	Sapling	
Paper Birch		5	Log	12		Black Spruce		Medium	Variable	Sapling	
Northern White Cedar		3	Pole/Log	9		White Pine		Low	Variable	Sapling	
Red Maple		13	Pole/Log	9		Labrador Tea		Medium	< 5 feet	Tall Shrub	
Black Spruce		38	Pole	6	73	Balsam Fir		Low	Variable	Sapling	
Red Pine		1	Log	14							
Tamarack		3	Pole	5							

44	6122 - Black Spruce	Sapling Well	2.8	56	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		25	Sapling	1		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Spruce		75	Sapling	1	56					

45	110 - Low Intensity Urban	Nonstocked	14.0			No	Highway M-28 and cleared ROW
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46	6120 - Lowland Cedar	Poletimber Medium	19.5	145	51-80	N/A	Mortality in some areas with variable canopy closer, depending on topography and water table.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		10	Pole	8		Northern White Cedar		Medium	5 - 10 feet	Sapling	
Northern White Cedar		80	Pole	9	145	Tag Alder		Low	5 - 10 feet	Tall Shrub	
Tamarack		10	Pole	8		Black Spruce		Low	Variable	Sapling	

47	6120 - Lowland Cedar	Sapling Well	8.9	49		N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		15	Sapling	2		Northern White Cedar		Medium	< 5 feet	Sapling
Northern White Cedar		70	Sapling	2	49	Black Spruce		Medium	< 5 feet	Sapling
Tamarack		15	Sapling	2						

48	4134 - Aspen, Spruce/Fir	Sawtimber Well	16.0	89	81-110	N/A	Old aspen stand, large diameters. Mortality. High conifer component.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		50	Log/Pole	13	89	Red Maple		Medium	5 - 10 feet	Sapling	
Black Spruce		20	Pole	9		Black Spruce		Low	5 - 10 feet	Sapling	
Northern White Cedar		10	Pole	8		Balsam Fir		Medium	Variable	Sapling	
Red Maple		20	Log/Pole	10							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
49	6224 - Treed Bog	Nonstocked	3.0			No																																																																							
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50	6120 - Lowland Cedar	Poletimber Well	409.9	145	81-110	N/A	Primarily a pole size cedar stand. Various areas within the stand of different sizes, quality, health, etc. Pockets of black spruce. Thick in areas. Areas of blowdown have good regeneration.																																																																						
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51	429 - Mixed Upland Conifers	Sawtimber Well	28.2	115	81-110	N/A	White pine dominated areas with areas of mixed younger age class of spruce, red maple, birch with cedar and fir. Old ice road enters southern tip of stand from the adjacent lowlands. Intermediate ground; wet in places.																																																																						
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52	6220 - Alder/willow	Nonstocked	2.5			No																																																																							
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54	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	65.8	101	81-110	N/A	Mixed lowland conifer stand mainly dominated by pole sized black spruce with cedar in association. Component of tamarack, red maple, and large diameter white pine and hemlock. Pockets of overstory stress/health from poor soils and water levels present.																																															
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56	4130 - Aspen	Sapling Well	49.4	36		N/A	Stand harvested as sale #45-85. Complete 1987. Young aspen. Thick. Starting to transition from sapling stand to a pole size stand.																																															
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57	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	6.6	92	141-170	N/A	Large diameter white pine and hemlock with cedar, spruce and some red maple. The stand was left as a conifer pocket (cedar and hemlock) when adjacent stand to the east was set up for harvest.																																															
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58	110 - Low Intensity Urban	Nonstocked	2.4		Immature	No	County Road 399 (Borgstrom Road) and cleared ROW.																																															
59	6120 - Lowland Cedar	Poletimber Medium	64.9	97	51-80	N/A	Cut in winter of 2013 (sale #42-015-11-01). All cedar, hemlock and white pine were left. Variable BA. Average residual: 10 BA hemlock, 40 BA cedar, 20 BA white pine.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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60	4134 - Aspen, Spruce/Fir	Sapling Well	97.5	21	Immature	N/A	Stand was harvested as sale #02-99. Completed in 2002. Good mix of species regenerating throughout the stand. Good component of pole size cedar left as residual after the harvest. Heavy deer use is evident (browse and tracks). Stand has a mix of high ground and low ground.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		15	Pole/Sapling	6		Red Maple		Medium	< 5 feet	Sapling	
Balsam Fir		10	Sapling	2		Balsam Fir		Medium	< 5 feet	Sapling	
Quaking Aspen		40	Sapling	2	21						
Balsam Poplar		5	Sapling	2							
Black Spruce		10	Sapling	2							
Red Maple		20	Sapling/Pole	4							

61	6124 - Lowland Spruce-Fir	Sapling Medium	5.7	41		N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		20	Sapling	3		Black Spruce		Low	Variable	Sapling	
Paper Birch		5	Sapling	3		Tag Alder		High	5 - 10 feet	Tall Shrub	
Quaking Aspen		35	Sapling	3							
Balsam Fir		35	Sapling	3	41						
Tamarack		5	Sapling	2							

62	6124 - Lowland Spruce-Fir	Sapling Poor	8.9	53		N/A	Mostly open tag alder with spruce, tamarack, birch and red maple saplings. Scattered spruce and tamarack poles.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		25	Sapling	4	53	Balsam Fir		Low	Variable	Sapling	
Black Spruce		30	Sapling	4	53	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Northern White Cedar		5	Sapling	4							
Red Maple		15	Sapling	4							
Paper Birch		10	Sapling	2							
Tamarack		15	Sapling/Pole	4							

63	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	76.1	101	81-110	N/A	Lowland hardwoods, mostly poor quality red maple poles and logs with cedar intermixed throughout. Canopy yellow birch, black spruce in canopy association with balsam sub canopy. Large Aspen established on old grade.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		13	Pole	8		Red Maple		Low	10 - 20 feet	Sapling	
Northern White Cedar		25	Pole/Log	9		Tag Alder		Low	10 - 20 feet	Tall Shrub	
White Pine		4	Log	15		Balsam Fir		High	>20 feet	Sapling	
Hemlock		3	Log/Pole	12		Paper Birch		Low	10 - 20 feet	Sapling	
Black Ash		6	Pole	7							
Quaking Aspen		5	Log/Pole	13							
Yellow Birch		10	Log/Pole/XLog	13							
Red Maple		34	Pole/Log	8	101						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
64	4119 - Mixed Northern Hardwoods	Sawtimber Well	19.8	96	81-110	N/A	Stand was cut as sale #42-002-99. Completed in 2002. Stand has experienced quite a bit of blowdown damage. Red maple is stump sprouting as a result of the harvest. Heavy deer browse. Balsam regeneration is thick in spots.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		68	Log/Pole	11	96	Red Maple	Medium	< 5 feet	Sapling
Hemlock		10	Log	13		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen		17	Pole	6					
Sugar Maple		5	Log/Pole	10					
65	4134 - Aspen, Spruce/Fir	Poletimber Well	14.2	53	81-110	N/A	Stand appears to be from a harvest around 1970. No records of the cut. Aspen pole size stand with a good red maple component. Component of balsam in the pole size as well. Thick balsam understory through most of the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Pole	8		Balsam Fir	High	10 - 20 feet	Sapling
Balsam Fir		20	Pole	7		Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen		55	Pole	8	53				
66	6122 - Black Spruce	Sapling Poor	21.9	41		N/A			
67	6122 - Black Spruce	Poletimber Well	46.1	108	141-170	N/A	Tall mature black spruce; 3-6 sticks of merchantable height. Portion of previous larger stand harvested via Clearcut with retention: Far Ranging Rovers Spruce #42-002-14. Only a portion of the sale was harvested based on saturated soil conditions; see final inspection TCR for more details.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		100	Pole	8	108	Black Spruce	Low	Variable	Sapling
68	4110 - Sugar Maple Association	Sawtimber Medium	13.0	99	81-110	N/A	Harvested portion of timber sale Far Ranging Rovers 42-002-14; cut in 2015. Nice ridge of sugar maple. Minor components of large diameter aspen, red maple and white ash. Large diameters, some maple borer damage. Red maple is mainly along stand edges, lower quality (large diameter pulp).		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		4	Pole/Log	9		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen		2	Pole/Log	8		Sugar Maple	Low	< 5 feet	Seeding
Sugar Maple		87	Pole/Log	9	99	Sugar Maple	Low	10 - 20 feet	Sapling
White Ash		7	Pole/Log	9					
69	4130 - Aspen	Sapling Well	6.8	6	Immature	N/A	This portion of the stand was harvested via Clearcut: Far Ranging Rovers #42-002-14. Eastern and southern portions have more hardwood regen (red maple). Sale #29-94 cut some aspen out of the southern part of the stand. Aspen now 20'+ tall.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		10	Sapling	1	6				
Quaking Aspen		55	Sapling	1	6				
Balsam Fir		10	Sapling	3					
Red Maple		20	Sapling	1	6				
White Spruce		5	Sapling	2					
70	6122 - Black Spruce	Sapling Medium	10.4	8	Immature	N/A	Good flush of regeneration throughout the stand with black spruce and tamarack. Stand harvested via Clearcut with Retention in 2015: Far Ranging Rovers Spruce 42-002-14.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		60	Sapling	1	8				
Tamarack		40	Sapling	1	8				



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71	500 - Water	Nonstocked	11.1		Immature	No	Sage River																																									
72	500 - Water	Nonstocked	5.8			No																																										
74	4139 - Aspen, Mixed Deciduous	Poletimber Medium	1.7	56		N/A																																										
75	413 - Aspen	Poletimber Medium	2.7	56		N/A																																										
76	6122 - Black Spruce	Sapling Medium	26.2	36		N/A	Dying black spruce. Flooded.																																									
78	4134 - Aspen, Spruce/Fir	Poletimber Medium	1.6	46		N/A	Low ridge with aspen and black spruce.																																									
79	6124 - Lowland Spruce-Fir	Sapling Poor	42.1	46	1-50	N/A																																										
80	4137 - Aspen, Birch	Sawtimber Well	9.3	76		N/A	Ridge of aspen, paper birch and maple surrounded by lowlands.																																									
85	500 - Water	Nonstocked	13.0			No																																										
86	6120 - Lowland Cedar	Poletimber Well	6.3	145	111-140	N/A	Higher cedar component with less hardwoods intermixed than nearby stands. Pockets of dense black spruce and some areas of windthrow and mortality with spruce/cedar regeneration.																																									
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88	6120 - Lowland Cedar	Poletimber Well	238.6	145	111-140	N/A	Primarily a pole size cedar stand. Various areas within the stand of different sizes, quality, health, etc. Pockets of black spruce. Thick in areas. Areas of blowdown have good regeneration.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
89	6120 - Lowland Cedar	Poletimber Well	13.0	145	111-140	N/A	Primarily a pole size cedar stand. Various areas within the stand of different sizes, quality, health, etc. Pockets of black spruce. Thick in areas. Areas of blowdown have good regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		10	Pole	7		Black Spruce		
Northern White Cedar		80	Pole	8	145	Tamarack		
Tamarack		5	Pole	7		Balsam Fir		
White Pine		5	Log	16		Northern White Cedar		
						Density	Avg. Height	
							Size	
91	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	13.4	88	81-110	N/A	Stand a good mix of cedar, black spruce and tamarack poles. Snapped off snags and windthrow intermixed. Inclusion of white pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		28	Pole	6		Northern White Cedar		
Northern White Cedar		32	Pole	8	145	Tamarack		
Tamarack		35	Pole	6	88	Black Spruce		
White Pine		5	Log	13		Balsam Fir		
						Density	Avg. Height	
							Size	
92	6122 - Black Spruce	Sapling Well	5.2	61	51-80	N/A		
93	6122 - Black Spruce	Poletimber Well	15.8	106	141-170	N/A	Tall, thick black spruce stand. Good merchantable heights. Some runs of smaller diameter trees. Stand is mature, ready to be harvested.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		98	Pole	9	106	Black Spruce		
Tamarack		2	Pole	8				
						Density	Avg. Height	
							Size	
95	6122 - Black Spruce	Poletimber Well	89.9	106	141-170	N/A	Tall, dense mature spruce with inclusions of smaller diameter spruce.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		98	Pole	9	106	Black Spruce		
Tamarack		2	Pole	8				
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