



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42071

Entry Year 2021

Acreage: 2,965

County Chippewa

Management Area: Tahquamenon Basin Wetlands

Revision Date: 2019-08-30

Stand Examiner: Lester Livermore

Legal Description:

T46N R07W Sections 18-20, 28-33

Identified Planning Goals:

Maintain or enhance the forest health, productivity, and diversity of the area through proper management. Emphasis for management in this compartment is on promoting wildlife habitat. Maintain and/or improve the integrity of the deeryard and surrounding area. Timber management is a secondary goal within the compartment.

Soil and topography:

The compartment is situated in the Hendrie River watershed and swamp system. The topography is predominantly level ground throughout the western half of the compartment with level to rolling topography in the eastern reaches. The soils associated with the lowland areas are primarily Dora Muck as well as Markey and Carbondale Muck. Primary cover types on these lowland soils are cedar, mixed swamp conifer and tamarack. Treed bogs and lowland brush are also present. The "upland" soils consist of Rouseau sands, Gogomain very fine sandy loam, Biscuit very fine sandy loam, and Pickford silty clay loam. Cover types associated with the upland areas include northern hardwoods, aspen and some hemlock. Other cover types include lowland hardwoods and lowland aspen.

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

One large block of private land (480 acres) within the compartment boundary. Private land borders the compartment to the east and north, limiting access to the area. State land borders the compartment to the west and south. Development within the compartment and surrounding area is limited due to the lowland nature of the area. Land use in the area is primarily hunting, as well as snowmobiling. Several small private land owners are located along North Hulbert Road, east of the compartment, consisting of seasonal camps and permanent residences.

Unique Natural Features:

MNFI lists the occurrence of Osprey in the compartment. Potential for sweet coltsfoot, Wiegand's sedge, northern prostrate clubmoss, fir clubmoss, English sundew, meadow beauty, round-leaved orchis, black crowberry, yellow pitcher plant, and panicked screwstem in bogs and open wetlands. Potential for calypso orchis, lapland buttercup, ram's head lady's slipper, round-leaved orchid and limestone oak fern in cedar swamps. Potential for red-shouldered hawk, goshawk, great blue heron rookery, black-backed woodpecker, spruce grouse, eagle, and osprey. Potential for moose and wolf. Potential for incurvate emerald, frigga fritillary, freija fritillary, and ebony boghaunter in boggy areas.

Archeological, Historical, and Cultural Features:

The Bureau of History does not list any historical features within the compartment.

Special Management Designations or Considerations:

The compartment includes one special management designation. A Special Conservation Area (SCA – Winter Deer Yard). Management decisions are dictated by the promotion and enhancement of the desired characteristics associated with the winter yarding habitat.

Watershed and Fisheries Considerations:

Fisheries Values: Moderate

This compartment is bordered by the Hendrie River as it slows down before it converges with the Tahquamenon River. This section of the Hendrie River is not a designated trout stream and standard BMP's should apply.

Wildlife Habitat Considerations:

Compartment 71 lies along the western edge of Chippewa county in the Seney Sand Lake Plain ecological sub-subsection and lies within the Tahquamenon River Basin Wetlands Management Area with white-tailed deer, black bear, snowshoe hare, and gray jay as featured species. The compartment lies within the Hendrie Deer yard which supports high numbers of deer during stressful winter periods. The eastern half of the compartment is a mix of hardwoods, aspen and swamp hardwoods and aspen and the western half is predominately cedar, lowland mixed conifer and lowland brush.

Harvest operations will occur during winter to benefit deer. According to deeryard guidelines, cedar canopies will be left intact throughout the compartment. Hemlock will be left in harvested stands and species and structural diversity will be maximized in harvested stands. Nest and den trees, snags, and woody debris will be maintained in stands where they exist. Travel corridors along streams and drainages will be preserved during harvest. Wildlife species potentially using this compartment include white-tailed deer, moose, black bear, bobcat, gray wolf, coyote, fisher, marten and snowshoe hare.

Mineral Resource and Development Concerns and/or Restrictions

Sections 18-20 & 28-33, T46N-R7W, Chippewa County

Several active sand/gravel pits are located within two miles of the compartment, on upland moraines. Within the compartment, however, which is dominated by low wetlands, sand & gravel potential may be limited. There is no history of mineral leasing in the compartment. There is no known potential for metallic minerals in this area, and no known potential exists economic hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

The compartment is located 3 miles northwest of Hulbert, west of North Hulbert Road. Vehicle access to the compartment is limited, both by private land access issues as well as the lowland nature of most of the compartment. For purposes of forest inventory, access to the compartment was gained off the west end of W. Apple Lane with easement on the road. Access has previously been gained through the Maple Ridge Club, to the north of the compartment, for inventory purposes and could possibly be gained again for management purposes. Access can also be gained via boat on the Hendrie River. Once within the compartment, access is limited to only a few drivable two track roads due to the lowland soils in the area.

Survey Needs:

Some survey work needed for management activities to take place. Private lands have had lines run and have been harvested against State land. Confirmation of line location by surveyor may be needed. Very few registered corners in the area and very little control.

Recreational Facilities and Opportunities:

There are no recreational facilities within the compartment. Recreational opportunities would include primarily hunting (deer). Limited access hinders recreational opportunities for the public.

Fire Protection:

Large fire runs in this compartment are not likely because of the swamp conifer and hardwood cover types. Equipment operability is going to be challenging for suppression activities. Risk to private properties would be low.

Additional Compartment Information:

One large private parcel lies within the compartment boundaries. (Goupille property). This parcel is being looked at for possible purchase at this time.

The following reports from the Inventory are attached:

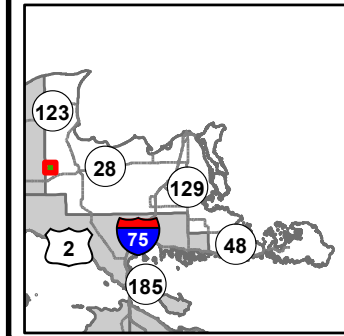
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

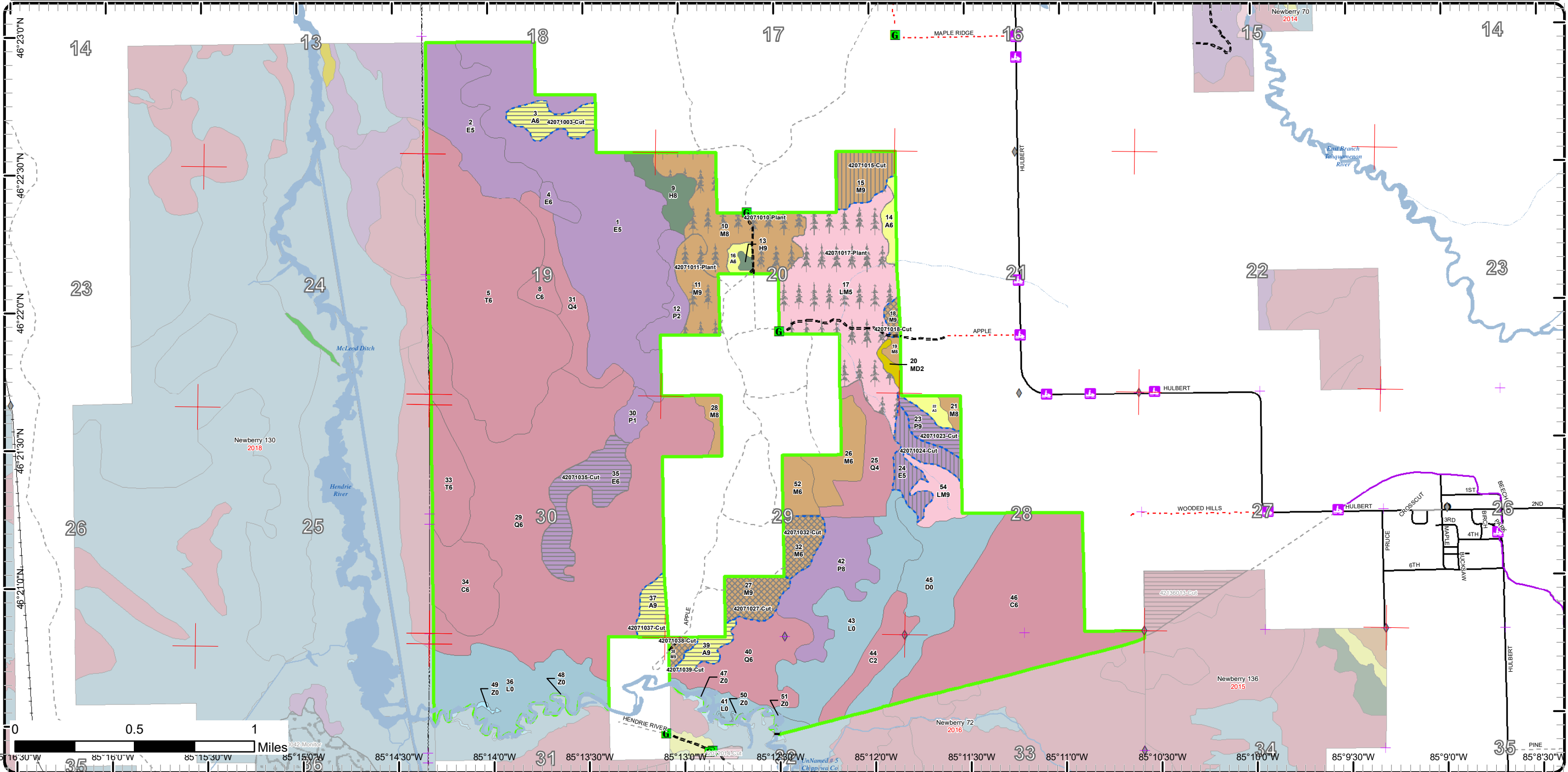
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 71
 T46N, R07W, Sec. 18-20, 28-33
 County: Chippewa
 Unit: Newberry
 Mgmt Area: Tahquamenon Basin
 Wetlands
 YOE: 2021
 Acres: 2,965 GIS Calculated
 Examiner: Lester Livermore
 Map Revised: 12/19/2019
 Map Phase: Post-Review

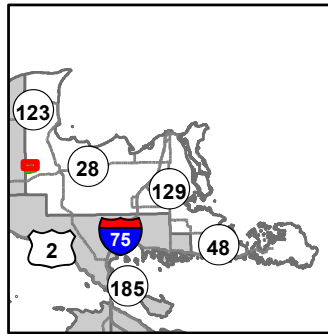


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- - - Counties
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- . - . County - Gravel Road
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- 🚙 Snowmobile Trails
- Ⓜ Gate
- ⚡ Bridges
- Intermittent Stream
- Island in Lake or River
- Perennial River
- Lakes and Rivers
- ▭ Compartment Boundary
- ▨ Treatments with Site Conditions
- ▨ Selection (Group, Single Tree)
- 🌲 Planting (tree species)
- ▨ Clearcut (w/Reserves)
- ▨ Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub

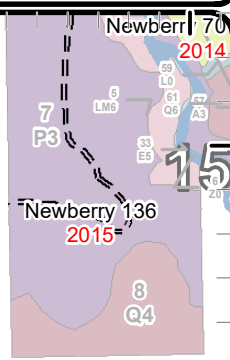
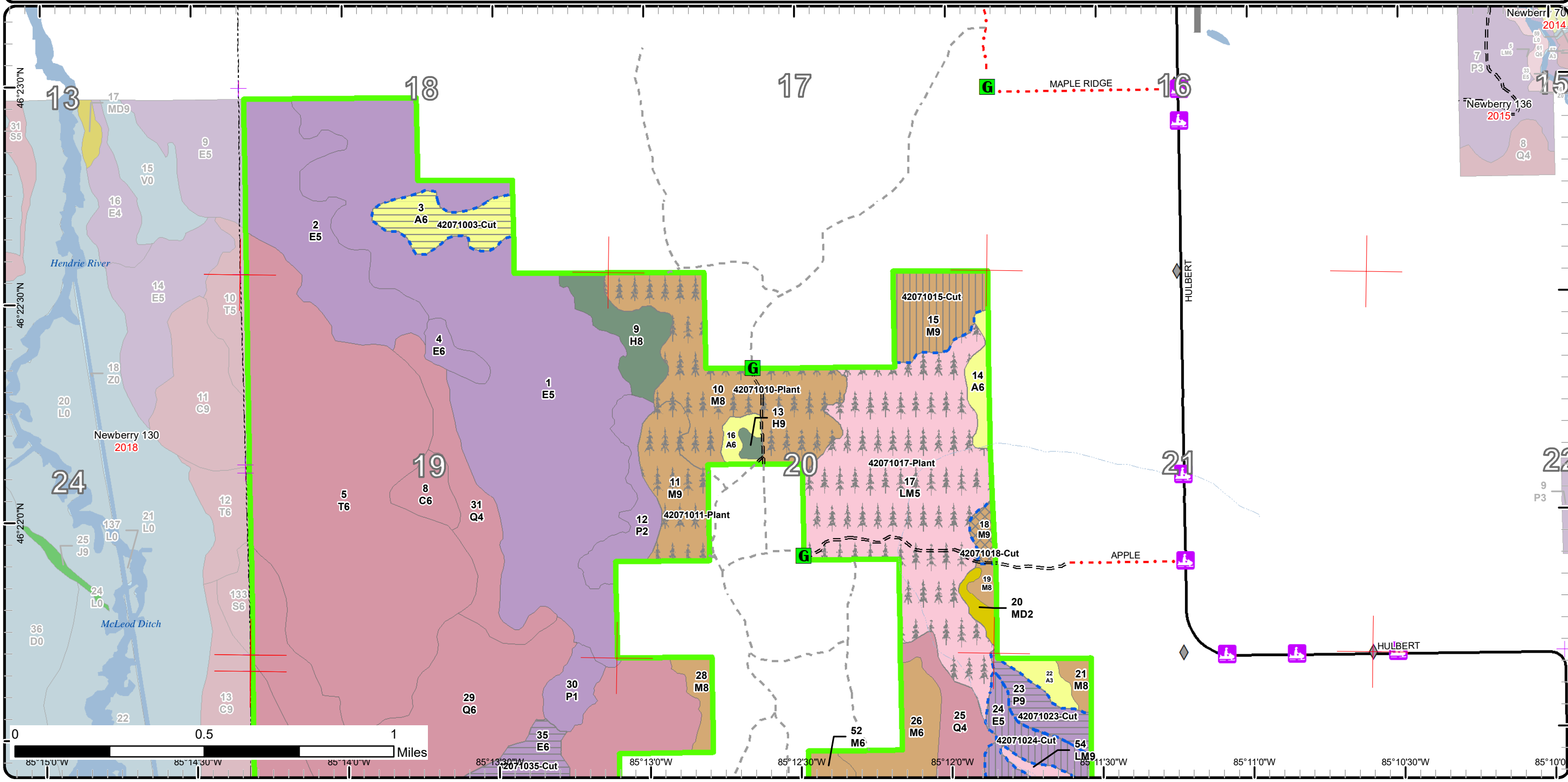


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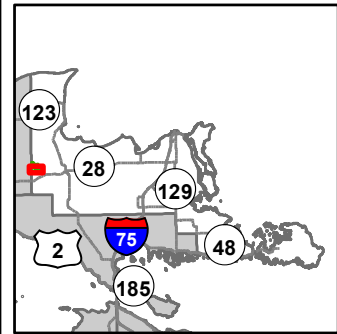
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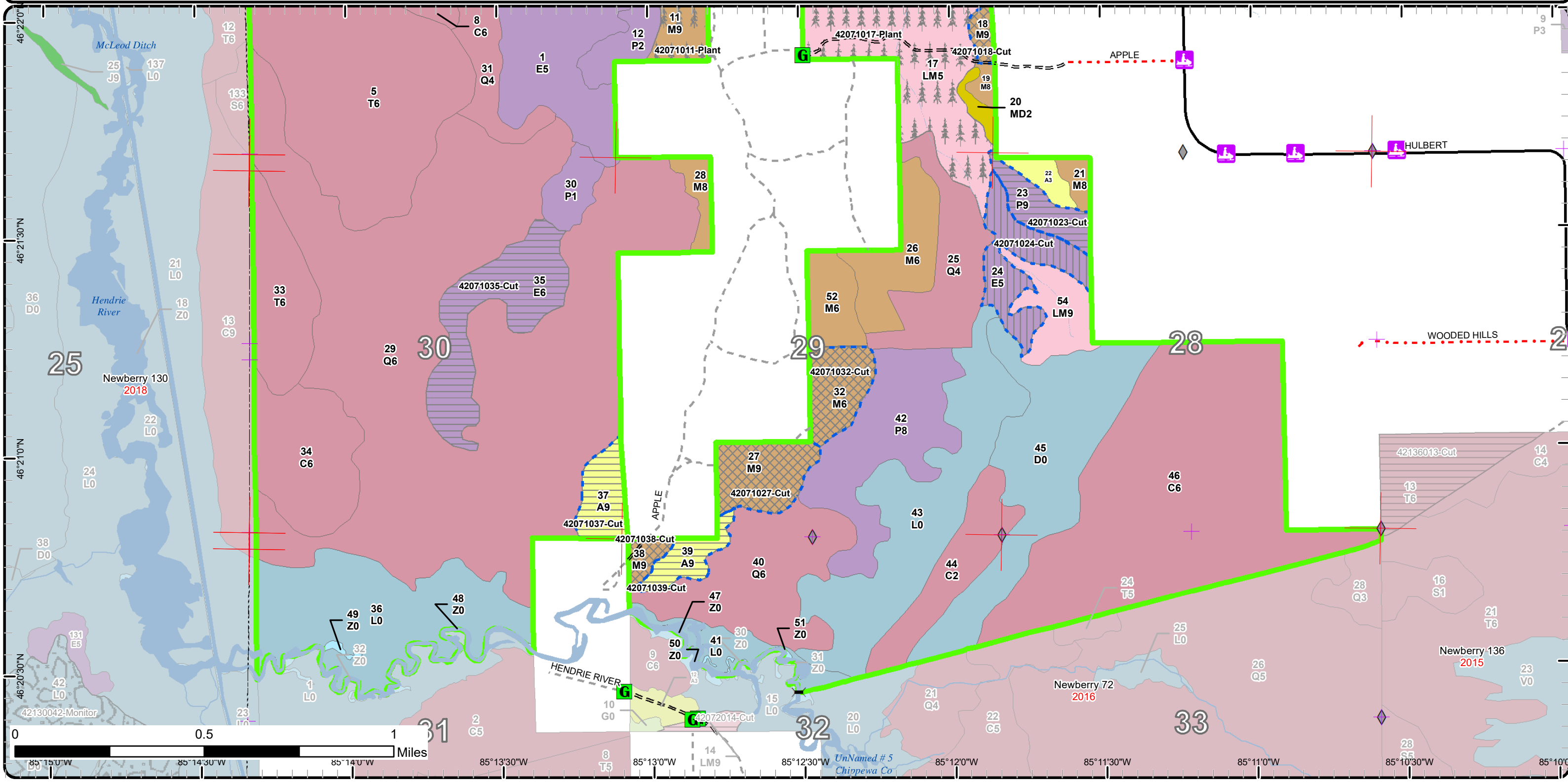


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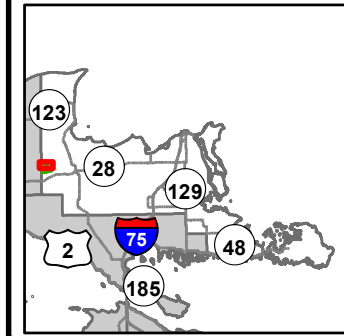
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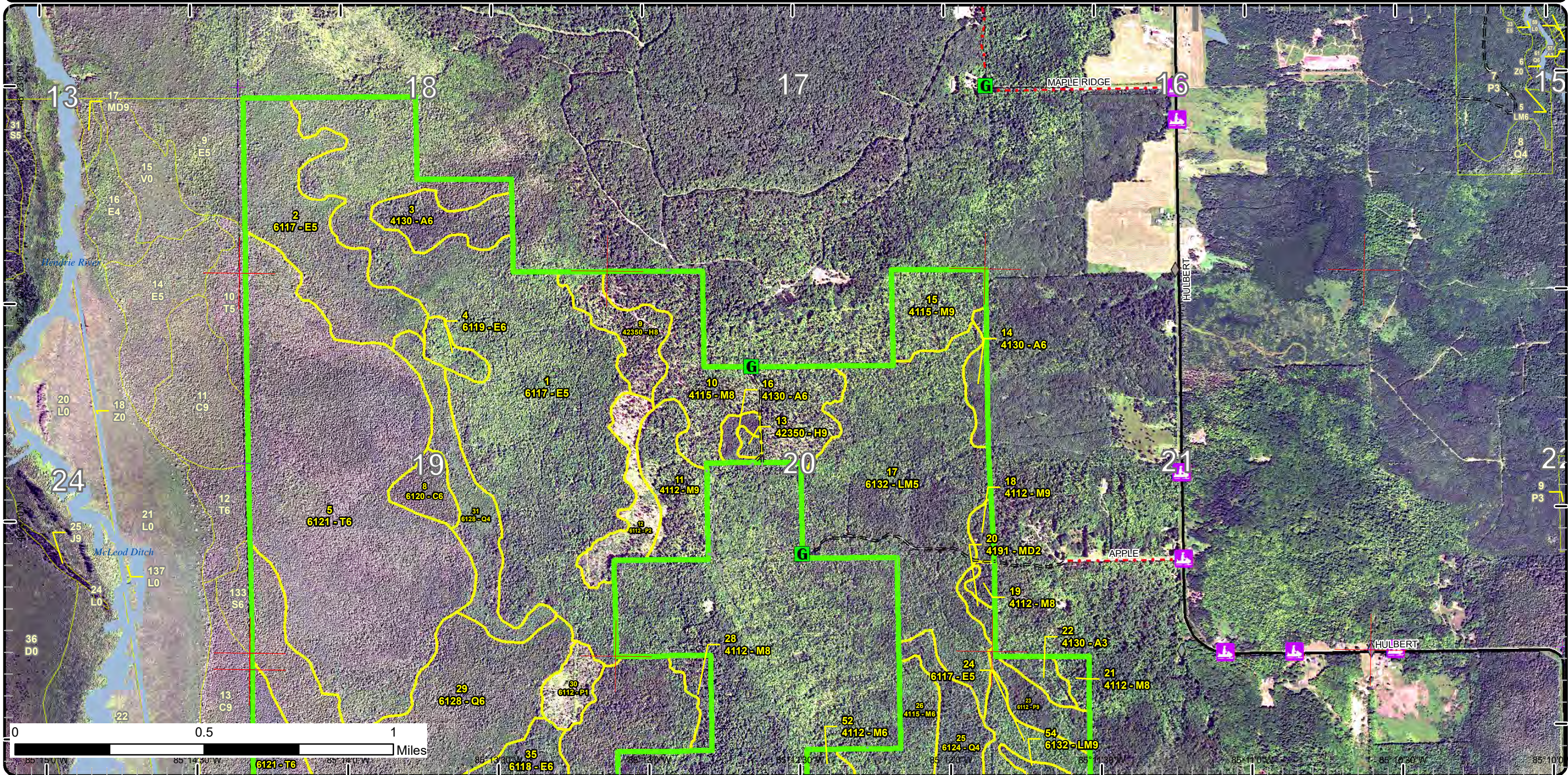


Stand Boundary Map

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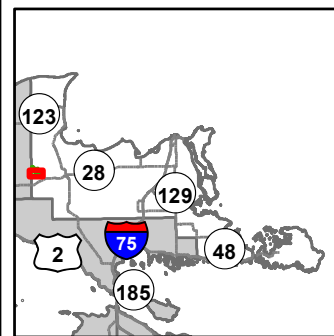


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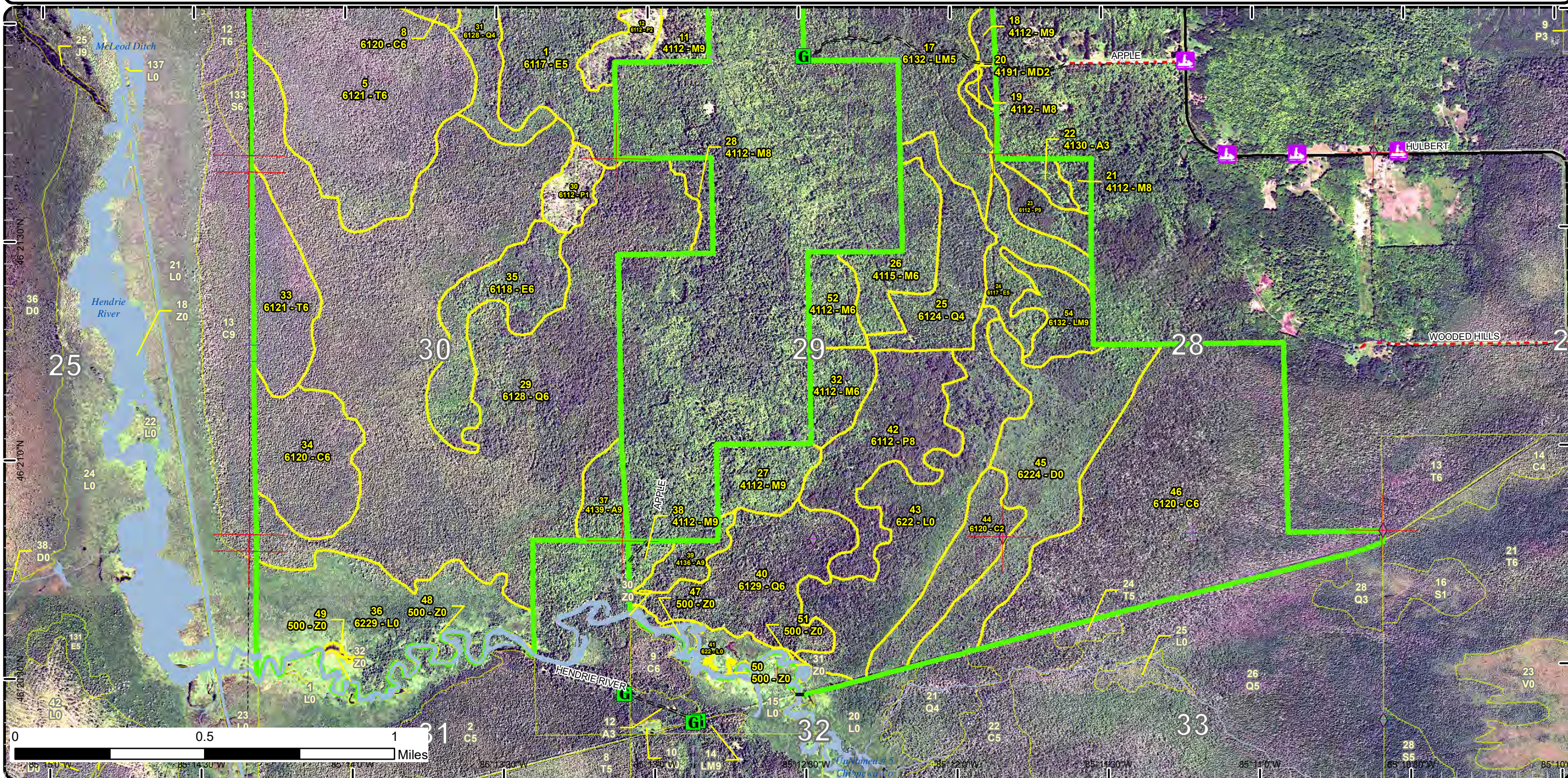


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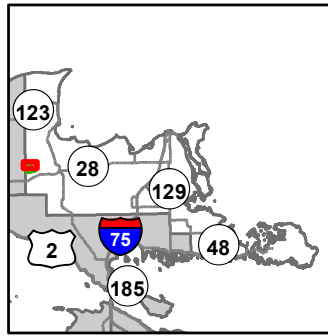


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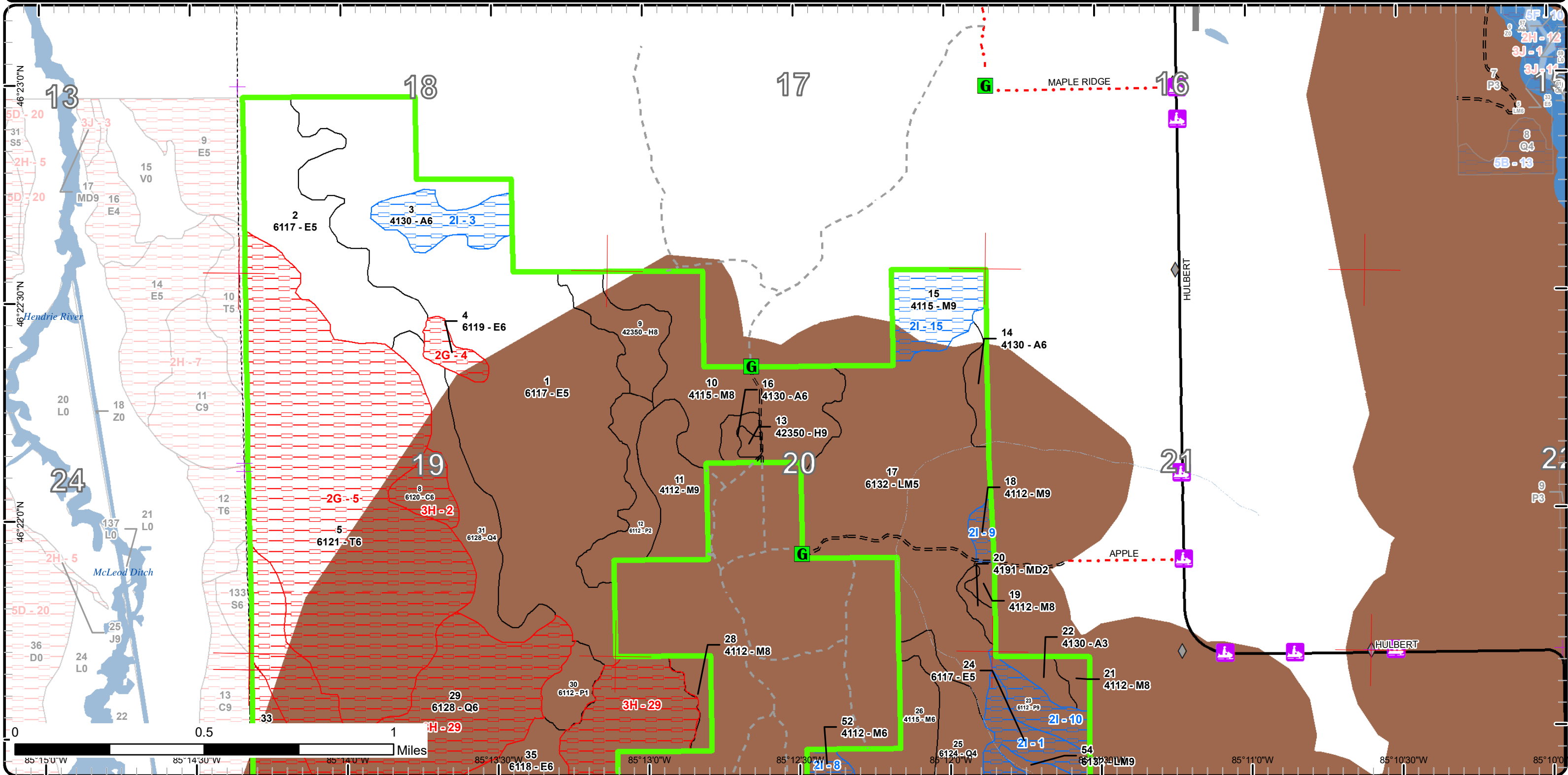


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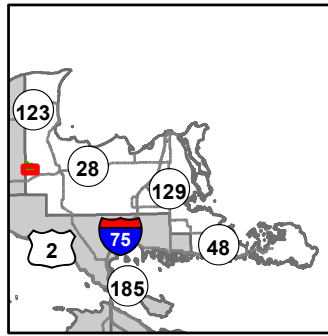


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- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Wild & Scenic Streams (USFS Lands)
- Wild & Scenic Rivers (USFS Lands)
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range

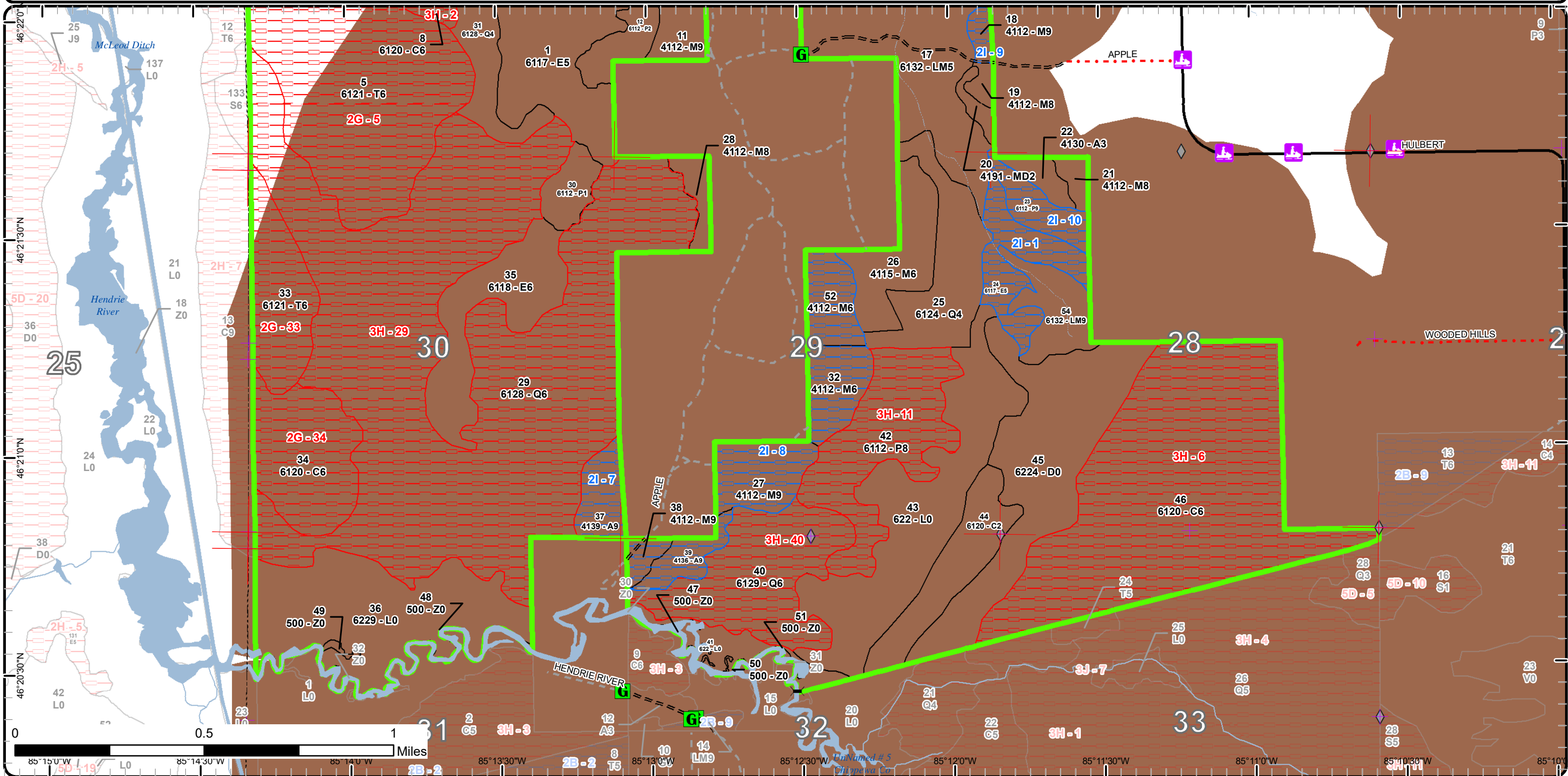


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- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 71

Year of Entry 2021

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	0	8	0	15	0	0	0	42	0	13	0	0	0	0	0	0	0	78
Cedar	0	0	0	0	0	0	0	0	0	0	0	99	0	261	0	0	0	0	360
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	26	28
Lowland Aspen/Balsam Poplar	0	41	0	0	0	0	0	92	0	0	0	0	0	0	0	0	0	0	133
Lowland Conifers	0	0	0	0	0	51	0	0	44	0	0	77	506	0	0	0	0	0	677
Lowland Deciduous	0	0	0	0	0	0	0	0	141	0	32	0	0	0	0	0	0	322	495
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	180	205
Lowland Shrub	234	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	234
Mixed Upland Deciduous	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	0	0	0	0	37	9	31	0	0	0	0	0	213	290
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	343	0	0	0	0	0	343
Treed Bog	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	352	41	13	0	15	51	0	92	227	37	79	207	849	264	0	0	0	741	2966



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 71
Total Compartment Acres: 2,965

Commercial Harvest - 55
 Harvests with Site Condition - 196
 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	55	0	0	0	0	0	0	0	0	55
Lowland Aspen/Balsam Poplar	17	0	0	0	0	0	0	0	0	17
Lowland Deciduous	55	0	0	0	32	0	0	0	0	87
Northern Hardwood	0	61	0	0	31	0	0	0	0	92
Total	127	61	0	0	63	0	0	0	0	251

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	251	0	301	0	0	0	0	0	0	552
Next Step	0	0	370	0	0	372	0	0	0	742
Total	251	0	671	0	0	372	0	0	0	1294



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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:

3	42071003-Cut	25.1	4130 - Aspen	Poletimber Well	78	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Retain 3 - 5% of treatment acreage as pocket retention. Cut all species present except hemlock. Retain all hemlock. <u>Specs:</u> Winter cut (start date October 1st). Leave a few larger aspen in red line where present. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, birch, maple, spruce, balsam and hemlock. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2020</p>											
10	42071010-Plant	86.8	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	84	51-80	Planting	Other - Specify	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Planting of Red Osier Dogwood and seeding skid trails and closed logging roads. <u>Specs:</u> <u>Next Step</u> Monitoring, Other - Specify <u>Treatments:</u> <u>Acceptable</u> Northern hardwoods species with hemlock and spruce. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
11	42071011-Plant	34.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	81-110	Planting	Other - Specify	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Planting of red osier dogwood and seeding of skid trails and closed logging roads. <u>Specs:</u> <u>Next Step</u> Monitoring, Other - Specify <u>Treatments:</u> <u>Acceptable</u> Northern hardwoods species with hemlock and spruce. Red osier and seeding where treated. <u>Regen:</u> <u>Other</u> Percent to treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</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
15 42071015-Cut	30.8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	108	111-140	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Shelterwood with retention harvest. Retain 40 - 50 BA. Remove low quality and overmature maple. Retain good quality red maple and hard maple (majority within the 10 -12 inch size class). Leave a component of yellow birch, cherry and healthy beech. Leave all hemlock and some spruce. Seasonal restriction beginning October 1st.</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, cherry and birch with balsam, spruce, and hemlock.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access through Maple Ridge Club could be possible access.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
17 42071017-Plant	179.6	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	182	51-80	Planting	Underplant	6113 - Lowland Maple	Even-Aged	No
<p><u>Prescription</u> plant red osier in suitable locations</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> E type with red osier</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 /2020</p>										
18 42071018-Cut	5.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to approximately 70- 80 BA targeting poor quality maple and diseased beech. Leave all hemlock for wintering deer. Seasonal restriction beginning October 1st.</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, hemlock, cherry, spruce and black ash.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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23	42071023-Cut	16.6	6112 - Lowland Aspen	Sawtimber Well	67	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut. Leave 1 mature aspen per 2 acres scattered throughout. Retain any cedar pockets and all hemlock for wintering deer if present.</p> <p><u>Specs:</u> Leave some mature aspen in the red line for winter buds for grouse. Leave a representation of healthy white birch. Remove all other species. Winter harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Planting, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, birch, maple, cedar</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

24	42071024-Cut	32.4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	92	81-110	Harvest	Shelterwood with Retention	611 - Lowland Deciduous Forest	Two-Aged	No
<p><u>Prescription</u> Shelterwood harvest to approximately 30 - 50 BA. Leave a percentage of red maple and yellow birch for shade and seed as well as a representation of black ash. Retain any patches of cedar and all hemlock for wintering deer, if present. Individual cedar may be harvested that exist outside of patches. Winter cut for deer and due to access and/or sensitive soil conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Planting, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, yellow birch, paper birch, black ash, balsam, spruce, cedar, and hemlock.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

27	42071027-Cut	27.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Thin stand to approximately 70 BA targeting poor quality maple and diseased beech. Leave all hemlock. Winter harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Planting, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, birch, hemlock, cherry, spruce and black ash.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
32 42071032-Cut	22.3	4112 - Maple, Beech, Cherry Association	Poletimber Well	105	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single tree selection. Mark stand to approximately 70 BA. Target poor quality and overmature individuals as well as diseased beech for removal following marking guidelines. Retain all hemlock. Winter harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Planting, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, birch, beech, balsam, spruce, and ash.</p> <p><u>Regen:</u></p> <p><u>Other</u> Some areas will be a light marking to attain the BA target.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
35 42071035-Cut	55.0	6118 - Lowland Deciduous with Cedar	Poletimber Well	78	51-80	Harvest	Clearcut with Retention	6118 - Lowland Deciduous with Cedar	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Retain a 3 - 5% of the stand acreage in the form of pocket retention. Pockets should be situated within areas of higher cedar. All pockets of cedar are to be retained and any scattered cedar may be harvested (see other comments). Retain a representation of larger healthy aspen within the red line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Planting, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, balsam poplar with cedar, balsam and spruce.</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter cut for deer, access and sensitive soil conditions. Cedar may be harvested if required for maneuverability that exist outside pockets and decked separately. Cedar prices will be inflated to deter cutting.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
37 42071037-Cut	17.2	4139 - Aspen, Mixed Deciduous	Sawtimber Well	78	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Retain 3-5% of the stand in the form of pocket retention. Retain any pockets of cedar and all hemlock. Individual cedar may be harvested if required for maneuverability. Leave a few larger aspen in the red line. Winter harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Planting, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, birch, spruce, balsam, hemlock, balsam poplar, ash.</p> <p><u>Regen:</u></p> <p><u>Other</u> Cedar cut should be decked separately. Stumpage prices will be inflated to deter cutting.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
38 42071038-Cut	6.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to approximately 70 BA. Target overmature and poor quality individuals following marking guidelines. Leave all hemlock.</p> <p><u>Specs:</u> Regeneration gaps may be focused near or around hemlock. Winter harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Planting, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, birch, hemlock, beech, cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
39 42071039-Cut	12.8	4136 - Aspen, Mixed Conifer	Sawtimber Well	96	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Retain 3-5% of the stand acreage in the form of pockets. Retain some healthy paper birch. Retain all hemlock and any pockets of cedar if present. Leave some mature aspen in the red line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Planting, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, birch, balsam, spruce, ash, maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment Acreage Proposed: 552

Report 4 – Site Conditions



Newberry Mgt. Unit

Compartment: 71

Lester Livermore : Examiner

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2I	2G	2H	3H
78	23	55	0	Aspen	55			
360	39	0	321	Cedar		60		261
29	29	0	0	Hemlock				
132	41	17	75	Lowland Aspen/Balsam Poplar	17			75
677	95	0	582	Lowland Conifers		0	0	582
495	453	32	10	Lowland Deciduous	32	10	0	0
205	205	0	0	Lowland Mixed Forest	0			
234	234	0	0	Lowland Shrub				0
5	5	0	0	Mixed Upland Deciduous				
290	177	113	0	Northern Hardwood	113			0
343	0	0	343	Tamarack		343	0	0
108	108	0	0	Treed Bog				0
10	10	0	0	Water				
2,965	1,418	217	1,331	Total Forested Acres	217	413	0	918
	48%	7%	45%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2I: Survey needed	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard.							

Report 4 – Site Conditions



Newberry Mgt. Unit

Lester Livermore : Examiner

Compartment: 71

Year of Entry: 2021

3	Available	2I: Survey needed	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	298	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	247	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard.							
7	Available	2I: Survey needed	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2I: Survey needed	90	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



Newberry Mgt. Unit
Lester Livermore : Examiner

Compartment: 71
Year of Entry: 2021

10	Available	2I: Survey needed	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	75	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Holding to balance food in DWC pilot plan analysis (2019).							
15	Available	2I: Survey needed	31	2B: Unknown if access through adjacent landowner(s) is possible	2E: Road needed	Unspecified	Unspecified
Comments: Road would be needed if access through stand land from Apple Lane.							
29	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	505	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Lester Livermore : Examiner

Compartment: 71
Year of Entry: 2021



40	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	77	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
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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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	312.3	182	51-80	N/A	Areas of low ground M6, pockets of E5. Low quality red maple, high component of black ash. Components of white spruce, balsam and cedar. Semi open in spots with tag alder. South end of the stand has more of a lower quality red maple component. 98 = white spruce, balsam and cedar. Gogomain very fine sandy loam.																																														
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2	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	85.9	76	1-50	N/A	Low quality hardwoods. Mostly red maple with paper birch, yellow birch along with some cedar, spruce, balsam, tamarack overtopping areas of thick balsam and red maple regeneration as well as tag alder. Lots of areas of mostly tag alder with a few scattered trees. Soil = Gogomain very fine sandy loam.																																														
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3	4130 - Aspen	Poletimber Well	25.1	78	111-140	N/A	Aspen stand. Data is from stand 12. Mature aspen with low quality hardwoods on edges. Varies from low ground with aspen, red maple, and elm to good clones of mature aspen on higher ground. Pockets of mature aspen - semi open. Small white birch component. Stand was not visited due and should be evaluated for treatment potential next YOE.																																														
4	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	9.6	182	51-80	N/A	Stand situated on a ridge of lowland with upland. Stand was not looked at this YOE. Possibility to treat stand with adjacent E types in 10 or 20 years. Soil = Gogomain very fine sandy loam.																																														
5	6121 - Tamarack	Poletimber Well	298.2	114	81-110	N/A	Very old, short (2-3 stick) tamarack with a cedar component. Pretty much inaccessible due to low ground to cross for access, deer and wintering concerns. Northern portions of the stand are more of a T5. Soil = Dora Muck 98 = black spruce and cedar.																																														
8	6120 - Lowland Cedar	Poletimber Well	14.3	128	111-140	N/A	Good thermal cover for deer. Component of black spruce and red maple. Semi-open in spots. No wintering deer activity. Pockets of cedar regeneration and windthrow with no browsing.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
9	42350 - Upland Hemlock	Sawtimber Medium	26.0	109	51-80	N/A	<p>Large hemlock with low quality red maple and a mix of yellow birch, beech, black spruce, white pine and cedar. Understory of maple and balsam. Some regeneration of hemlock after shelterwood harvest. Western stand edge follows the slope/transition to the "E" type. Soil = on the edge of Gogomain very fine sandy loam and Biscuit very fine sandy loam.</p> <p>2016: Stand harvested via shelterwood as sale #42-046-12-01. Completed 7/21/2016.</p> <p>Natural regen monitoring: Good hemlock regeneration.</p>																																	
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10	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	86.8	84	51-80	N/A	<p>Medium quality hardwoods. Sugar and red maple. Components of yellow birch, black cherry, beech and pockets of hemlock. Areas of lower canopy closure post-harvest have raspberries in the understory.</p> <p>2016: Stand harvested via shelterwood as sale #42-046-12-01, Comp 71. Completed 07/21/2016.</p>																																	
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11	4112 - Maple, Beech, Cherry Association	Sawtimber Well	34.6	108	81-110	N/A	<p>Hard maple with some red maple. Good form in the 10-12" classes. Nice quality poles (Hard maple). Quality decreases on the west side of the stand near the type change. Dead tops/broken out tops in ash near type change. Soil = Sugar very fine sandy loam.</p> <p>2016: Stand harvested via selection as sale #42-046-12-01, Comp 71. Completed 07/21/2016.</p>																																	
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12	6112 - Lowland Aspen	Sapling Medium	26.0	5	Immature	N/A	<p>Stand is immature. Mostly sapling sized aspen just starting to regenerate in places. Wetter areas open with grass and some standing water. Pole sized birch scattered throughout stand with some defoliation. Stand was harvested and completed 3/12/2015. Few conifer pockets dispersed. Soil = Gogomain very fine sandy loam.</p> <p>2016: Stand harvested as sale #42-046-12-01, Comp 71. Completed 07/21/2016.</p>																																	
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13	42350 - Upland Hemlock	Sawtimber Well	2.5	125	171-200	N/A	<p>Nice pocket of hemlock. Surrounded by young aspen. Good hemlock regeneration 4-6 ft tall - patchy. Slight deer browse. Soil = Dora Muck</p>																																	
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17	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	179.7	182	51-80	N/A	Low quality, low ground. Red maple, cedar, hemlock, spruce, occasional yellow birch. White birch regeneration along abandoned roads. Small creek runs through the stand. South half of the stand is part of the DRIP Land Purchase within the compartment. hemlock, black spruce, and white pine. Soil = Biscuit very fine sandy loam.																																									
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18	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.2	97	111-140	N/A	Stand was thinned in the past 20-30 years ago. Small acreage. Red maple with Hard maple. Better quality along the east side. DRIP Land Purchase. Soil = Biscuit very fine sandy loam																																									
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19	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	4.0	97	51-80	N/A	DRIP Land Purchase. Stand was thinned by MeadWestvaco prior to selling to the State, in 2004. Red maple stump sprouts as regeneration. Scattered hard maple regeneration. Nice component of yellow birch in understory. Some nice quality small sawlogs. Soil = Biscuit very fine sandy loam.																																									
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20	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	4.9	15	1-50	N/A	DRIP Land Purchase 2004. Recently cut by MeadWestvaco prior to sale to the State. Cut in 2003-2004. M2/F2, red maple stump sprouts, balsam and spruce regeneration. Some white birch and yellow birch. Fair amount of deer browsing evident on the red maple sprouts. Soil = Gogomain very fine sandy loam																																																
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21	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	5.8	92	51-80	N/A	DRIP Land Purchase. Stand was thinned by MeadWestvaco prior to selling to the State, in 2004. Red maple stump sprouts as regeneration. Scattered hard maple regeneration. Some nice quality small sawlogs. Soil = Biscuit very fine sandy loam.																																																
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22	4130 - Aspen	Sapling Well	7.8	15	1-50	N/A	DRIP Land Purchase - 2004. Stand was harvested prior to the land sale. Regeneration of aspen, maple and white birch. Scattered balsam and spruce and a few larger yellow birch left from previous harvest. Soil = Biscuit very fine sandy loam.																																																
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23	6112 - Lowland Aspen	Sawtimber Well	16.6	67	81-110	N/A	Variable lowland aspen and white birch stand. Ranges from mainly white birch to young aspen to mature aspen. Good component of cedar. Wet stand. Open areas with younger aspen. Gogomain very fine sandy loam																																																
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24	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	32.4	92	81-110	N/A	Very low quality stand. Red maple, black ash, spruce and some cedar and elm. Dead tops and mortality. DRIP Land Purchase. Soil = Gogomain very fine sandy loam																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
25	6124 - Lowland Spruce-Fir	Poletimber Poor	50.5	40	1-50	N/A	DRIP Land Purchase - 2004. Harvested by Mead Westvaco prior to land sale to the State in winter of 2003-2004. Some red maple, white birch, balsam regeneration. Scattered 1 stick residual spruce, balsam and red maple. Good stump sprouting. Stand succession will push to lowland hardwoods. Soil = Gogomain very fine sandy loam.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		45	Pole	5	40	Balsam Fir		High	>20 feet	Sapling
Yellow Birch		10	Sapling/Pole/Log	4		Red Maple		Medium	Variable	Sapling
Red Maple		15	Pole	5		Balsam Poplar		Low	10 - 20 feet	Sapling
Black Spruce		20	Pole	5		Tag Alder	High	>20 feet	Tall Shrub	
26	4115 - Y.Birch, Hemlock NH	Poletimber Well	36.8	82	51-80	N/A	Low quality red maple with yellow birch in association. Some pockets of hemlock within. Areas of lower canopy closure where maple recruiting into the overstory. Wet patches with alder and black ash recruiting from below. Thick balsam fir understory in places.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		45	Pole/Log	9	82	Balsam Fir		High	>20 feet	Sapling
Hemlock		10	XLog/Log	18		White Spruce		Medium	Variable	Sapling
Yellow Birch		15	Log/Pole	14		Beech		Low	Variable	Sapling
Sugar Maple		7	Pole/Log	9		Tag Alder		Low	5 - 10 feet	Tall Shrub
Northern White Cedar		6	Log	12		Black Ash		Low	Variable	Sapling
White Spruce		6	Pole/Log	9		Maple (spp.)		Medium	< 5 feet	Seeding
						Bunchberry	Medium	< 5 feet	Tall Shrub	
27	4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.4	105	111-140	N/A	Decent quality hardwoods. Hard maple with a red maple component with maple understory. Inclusions of black ash and grassy openings. Stand was thinned in 1984. Stand delineated from larger maple stand to the north for significant difference in site quality and composition. Age estimated from nearby hardwoods.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		45	Log/Pole/XLog	10	105	Sugar Maple		Medium	Variable	Sapling
Red Maple		34	Log/Pole/XLog	10		Red Maple		Medium	Variable	Sapling
Yellow Birch		10	Pole/Log	8		Sugar Maple		Low	>20 feet	Pole
						Maple (spp.)	Medium	< 5 feet	Seeding	
28	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	9.4	98	81-110	N/A	Mainly Hard maple with some red maple. Good form in the 10-12" classes. Nice quality poles (Hard maple). Successful maple regeneration in canopy gaps (thick in some places). Quality decreases on the west side of the stand near the type change. Stand slopes to the west. Soil = Sugar very fine sandy loam.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		65	Log/Pole	10	98	Maple (spp.)		Medium	Variable	Sapling
Red Maple		35	Pole/Log	9						
								2016: Stand harvested via selection as sale #42-046-12-01, Comp 71. Completed 07/21/2016.		
29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	505.5	115	81-110	N/A	Large diverse lowland stand that ranges from a Q6 to a Q4, C5 and P5. Open areas with thick understory. High component of cedar. Close proximity to deer yard, conifer cover (W/L cedar concerns).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		40	Pole/Log/XLog	9	115	Red Maple		Low	Variable	Sapling
Red Maple		8	Log/Pole	10		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Spruce		30	Pole/Log/XLog	8		Black Ash	Low	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
30	6112 - Lowland Aspen	Sapling Poor	14.7	3	Immature	N/A	Immature stand regenerating to aspen. Some areas of poor stocking in lower ground. Northern portion of the stand contains cedar and balsam.																																												
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31	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	43.7	75	1-50	N/A	Soil = Dora Muck																																												
32	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.5	105	81-110	N/A	Variable quality hardwoods; red maple with sugar maple and yellow birch component with maple understory. Quite a few bands of black ash/birch across the site and grassy openings. Portions of the stand have abundance of pole size classes. Stand was thinned in 1984. Stand delineated from maple stand to the south for significant difference in composition. Stand was part of the DRIP Land Purchase - 2004.																																												
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33	6121 - Tamarack	Poletimber Well	45.2	114	81-110	N/A	Very old, short (2-3 stick) tamarack with a cedar component. Pretty much inaccessible due to low ground to cross for access, deer and wintering concerns. Northern portions of the stand are more of a T5. Soil = Dora Muck 98 = black spruce and cedar.																																												
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34	6120 - Lowland Cedar	Poletimber Well	59.7	109	111-140	N/A	Mostly cedar with overtopping tamarack and black spruce. Soil = Dora muck																																												
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35	6118 - Lowland Deciduous with Cedar	Poletimber Well	55.0	78	51-80	N/A	Stand of aspen, bam, white birch and mixed conifers. Good component of cedar. Low quality stand in many areas. Pockets with dead trees, bam is dying out. Understory of bam, aspen, balsam and spruce. This stand is slightly wetter also. Soil = Gogomain very fine sandy loam.																																												
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36	6229 - Mixed lowland shrub	Nonstocked	106.2		Unspecified	No	Lowland brush corridor along the Hendrie River. Soil = Dora muck.																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
37	4139 - Aspen, Mixed Deciduous	Sawtimber Well	17.2	78	81-110	N/A	Large over-mature aspen canopy throughout the stand. Portion of this age class is dead and down. A younger age class of aspen dominates the northern third of the stand. Southern portion of the stand dominated by log/pole sized mixed hardwoods. Birch poles filling in canopy gaps. A few cedar pockets within the stand. Few scatted hemlock and white pine.																																											
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38	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.2	104	111-140	N/A	Fairly good quality hardwood stand situated along road. Good component of sugar maple. Good regeneration and recruitment of maple with little beech competition. Some spruce and balsam understory.																																											
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39	4136 - Aspen, Mixed Conifer	Sawtimber Well	12.8	96	81-110	N/A	Mature and overmatured aspen. Some decline and mortality in the aspen. Thick understory throughout. Scattered cedar. Small acreage stand. Some dead white birch. Transitions to a Q6 to the east and an M6 to the west.																																											
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40	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	76.9	101	81-110	N/A	Variable stand. Mixed swamp conifers. Spruce and cedar with red maple, white birch, and balsam. Wetter areas are more open with stunted cedar and "D" characteristics. Pockets of solid cedar. Good deer cover for neighboring harvests.																																											
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41	622 - Lowland Shrub	Nonstocked	17.5		Unspecified	No	Lowland brush corridor along the Hendrie River. Soil = Dora muck.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
42	6112 - Lowland Aspen	Sawtimber Medium	74.6	66	51-80	N/A	Large diameter, over-mature bam and red maple with some mortality. Pockets of younger aspen. Overall the stand is low quality and wet. Elm and ash component with pockets of open canopy with tall grasses. Transitions to an "L" type - hard to distinguish the stand boundary. Younger aspen is healthy however sometimes overtopped. Soil = Gogomain very fine sandy loam. Holding to balance food in DWC pilot plan analysis (2019).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Log/XLog/Pole	16		Red Maple		Low	< 5 feet	Seeding
Yellow Birch		8	Log/Pole/XLog	10		Black Ash		Medium	Variable	Sapling
Balsam Fir		8	Log/Pole	10		White Spruce		Medium	Variable	Sapling
Balsam Poplar		30	Log/Pole/XLog	12	66	Balsam Fir		Medium	Variable	Sapling
Quaking Aspen		21	Pole/Log/XLog	8						
43	622 - Lowland Shrub	Nonstocked	109.8	0	Unspecified	No	Lowland brushy stand. Western portion of the stand supports stunted aspen, bam, and black spruce.			
Sub-Canopy Species		Density	Avg. Height	Size						
Tag Alder		High	10 - 20 feet	Tall Shrub						
Balsam Poplar		Low	>20 feet	Pole						
Quaking Aspen		Low	>20 feet	Pole						
Black Spruce		Medium	Variable	Sapling						
44	6120 - Lowland Cedar	Sapling Medium	39.4	101	1-50	N/A	Stunted Cedar with scattered tamarack and spruce.			
Canopy Species		% Cover	Size Class	DBH	Age					
Northern White Cedar		75	Sapling/Pole	4	101					
Black Spruce		10	Pole/Sapling	6						
Tamarack		15	Pole/Sapling	6						
45	6224 - Treed Bog	Nonstocked	108.0		Unspecified	No				
46	6120 - Lowland Cedar	Poletimber Well	247.0	129	141-170	N/A	Mainly cedar with black spruce and some tamarack. Pockets thicker to spruce; western portion of the stand dominated by spruce. Deer migration and winter deer yard area.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		55	Pole/Log	9	129	Black Spruce		Low	5 - 10 feet	Sapling
Black Spruce		35	Pole	9		Tamarack		Low	5 - 10 feet	Sapling
Tamarack		10	Pole	7						
47	500 - Water	Nonstocked	2.1		Unspecified	No	Hendrie River.			
48	500 - Water	Nonstocked	3.7		Unspecified	No	Hendrie River.			
49	500 - Water	Nonstocked	1.1		Unspecified	No	Hendrie River.			
50	500 - Water	Nonstocked	0.7		Unspecified	No	Hendrie River.			
51	500 - Water	Nonstocked	2.0		Unspecified	No	Hendrie River.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52 4112 - Maple, Beech, Cherry Association Poletimber Well 20.5 105 81-110 N/A

Variable quality hardwoods; red maple with sugar maple and yellow birch component with maple understory. Quite a few bands of black ash/birch across the site and grassy openings. Portions of the stand have abundance of pole size classes. Stand was thinned in 1984. Stand delineated from maple stand to the south for significant difference in composition. Stand was part of the DRIP Land Purchase - 2004.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	25	Pole/Log	8		Sugar Maple	Low	Variable	Sapling
Red Maple	50	Pole/Log	8	74	Red Maple	Medium	Variable	Sapling
Yellow Birch	14	Pole/Log	8		Maple (spp.)	Medium	< 5 feet	Seeding
					Beech	Low	< 5 feet	Sapling

54 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 25.1 92 111-140 N/A

Stand delineated from larger E5 stand based on percent of cedar composition. Viable deer shelter. Cedar, red maple, yellow birch, black ash, spruce and elm. DRIP Land Purchase. Soil = Gogomain very fine sandy loam

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Log/XLog	9		Red Maple	Low	< 5 feet	Seeding
Yellow Birch	15	Log/Pole	10		Red Maple	Medium	Variable	Sapling
Black Spruce	6	Pole/Log	8		Black Spruce	Low	Variable	Sapling