



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42108

Entry Year 2023

Acreage: 2,796

County Luce

Management Area: County Line Hardwoods

Revision Date: 2021-12-29

Stand Examiner: Lester Livermore

Legal Description:

T45N, R11W. Sections 23, 25, 26, 35, and 36.

Identified Planning Goals:

Maintain forest health, forest resource protection, forest recreation, timber production, forest diversity and forest sustainability while considering wildlife, fisheries and environmental needs and concerns.

Soil and topography:

Kalkaska, Springlake loamy sand, Menominee Graveraet; Carbondale and Dawson on low sites; primarily rolling upland.

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

Ownership pattern consists of a large, contiguous block of state ownership. The State of Michigan has leased 720 acres of this compartment to Luce County. Luce County is managing the forest stands on this acreage. This lease expires January 12th, 2029.

Unique Natural Features:

Within the compartment MNFI shows the potential for osprey, eagle, great blue heron rookery, red-shouldered hawk, and goshawk as well as the potential for incurvate emerald, frigga fritillary, freija fritillary and ebony boghaunter in bog habitat. MNFI also shows the potential for rare plants of rich mesic forests: assiniboia sedge, showy orchis, ginseng, and goblin fern. Potential for rare plants of marshes and bogs including widgeon-grass, Farwell's water-milfoil, alga pondweed, and autumnal water star-wort.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

A large proportion of the state land within this compartment is held under a management lease by Luce County until January 12th, 2029.

Watershed and Fisheries Considerations:

Fisheries Values: None

Fisheries Concerns: There are no water-bodies in this compartment, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 108 lies in southern Luce county in the St. Ignace ecological sub-subsection and is in the County Line Hardwoods Management Area. White-tailed deer, black bear, snowshoe hare, ruffed grouse and red shouldered hawk and Goshawk are featured species in the compartment. Northern hardwoods and aspen stands dominate the compartment with a few small various lowland types primarily on the west side. Species diversity in forested stands is low overall. The compartment is heavily used by hunters of all types.

The conifer component of most stands is very low and thus conifers will be retained in harvested stands to provide species and structural diversity and to serve as nesting habitat for warblers, nesting trees for hawk species (featured species), and vertical structure for deer (featured species). Mature aspen will be retained around the border of sales to provide food sources for ruffed grouse (featured species) and coarse woody debris for small mammals and black bear (featured species) forage sites. Trees with forks high in the canopy will be protected in harvested stands to provide future nest trees.

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. Two active sand/gravel pits occur just north of the compartment, but potential for sand & gravel within the compartment appears less promising. No current mineral leasing activity exists in the area.

Vehicle Access:

The compartment can be accessed by county roads 431 and 468, both which are primary routes that run through most of the compartment. These roads are maintained by the Luce County Road Commission. The County has designated these roads as seasonal, as they do not routinely maintain it as they do other county roads. These roads provide great public access throughout the compartment. There are also a significant number of small forest roads/logging roads that run through many of the stands, creating fair access across the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

The Sandtown Motorcycle Trail meanders through a good portion of the compartment. FMD snowmobile trails 457 and 45 run through the compartment as well. Hunting, wildlife observation and trapping opportunities are also present.

Fire Protection:

The potential for large fire growth in this compartment is low because of the minimal areas of conifer types and the network of two tracks. Most of the compartment is accessible with heavy equipment. Most fires should be low intensity surface fires with slow rates of spread because of the hardwood fuel types.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

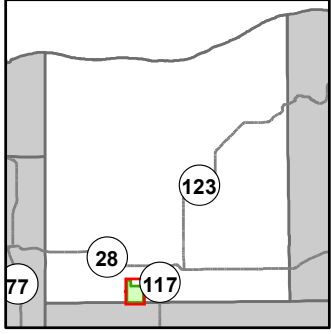
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

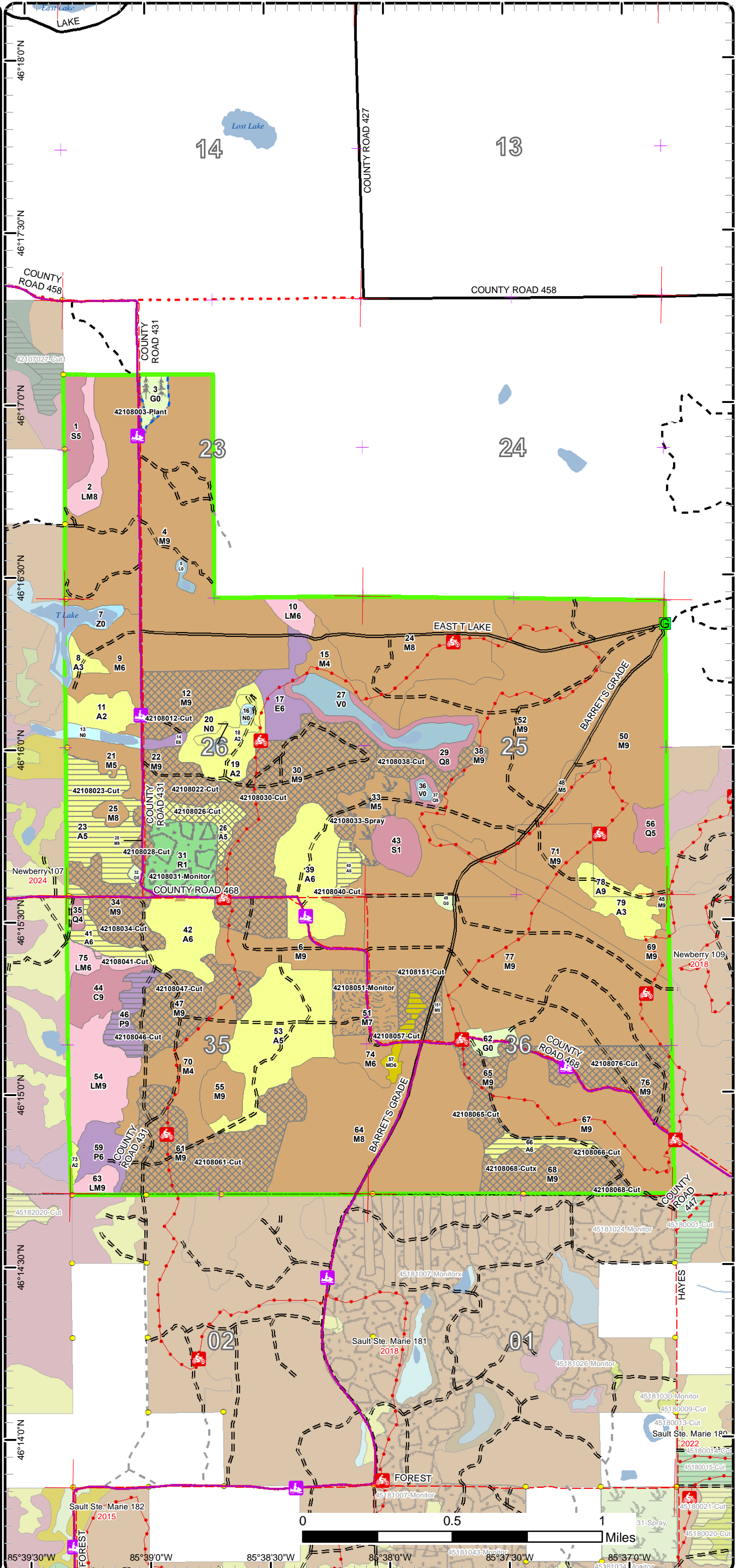
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 108
 T45N, R11W, Sec. 23, 25, 26, 35, 36
 County: Luce
 Unit: Newberry
 Mgmt Area: County Line
 Hardwoods
 YOE: 2023
 Acres: 2795.7 GIS Calculated
 Examiner: Lester Livermore
 Map Revised: 12/29/2021
 Map Phase: Post-Review

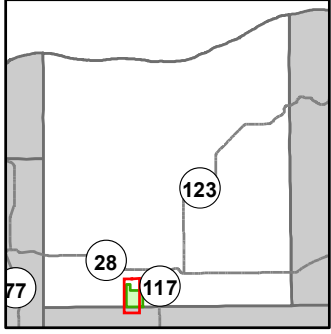


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
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- 🌊 Lakes and Rivers
- ▲ Berms
- Ⓜ Gate
- 🟩 Compartment Boundary
- 📄 Treatments with Site Conditions
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- 📄 Selection (Group, Single Tree)
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- 🟠 419 - Mixed Upland Deciduous
- 🟢 421 - Planted Pines
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- 🟡 613 - Lowland Mixed Forest
- 🟢 310 - Herbaceous Openland
- 🟦 500 - Water
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- 🟢 623 - Emergent Wetland

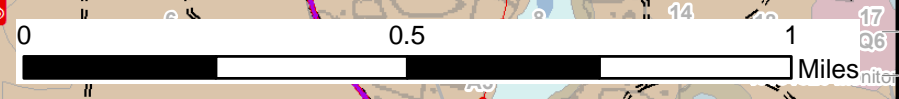
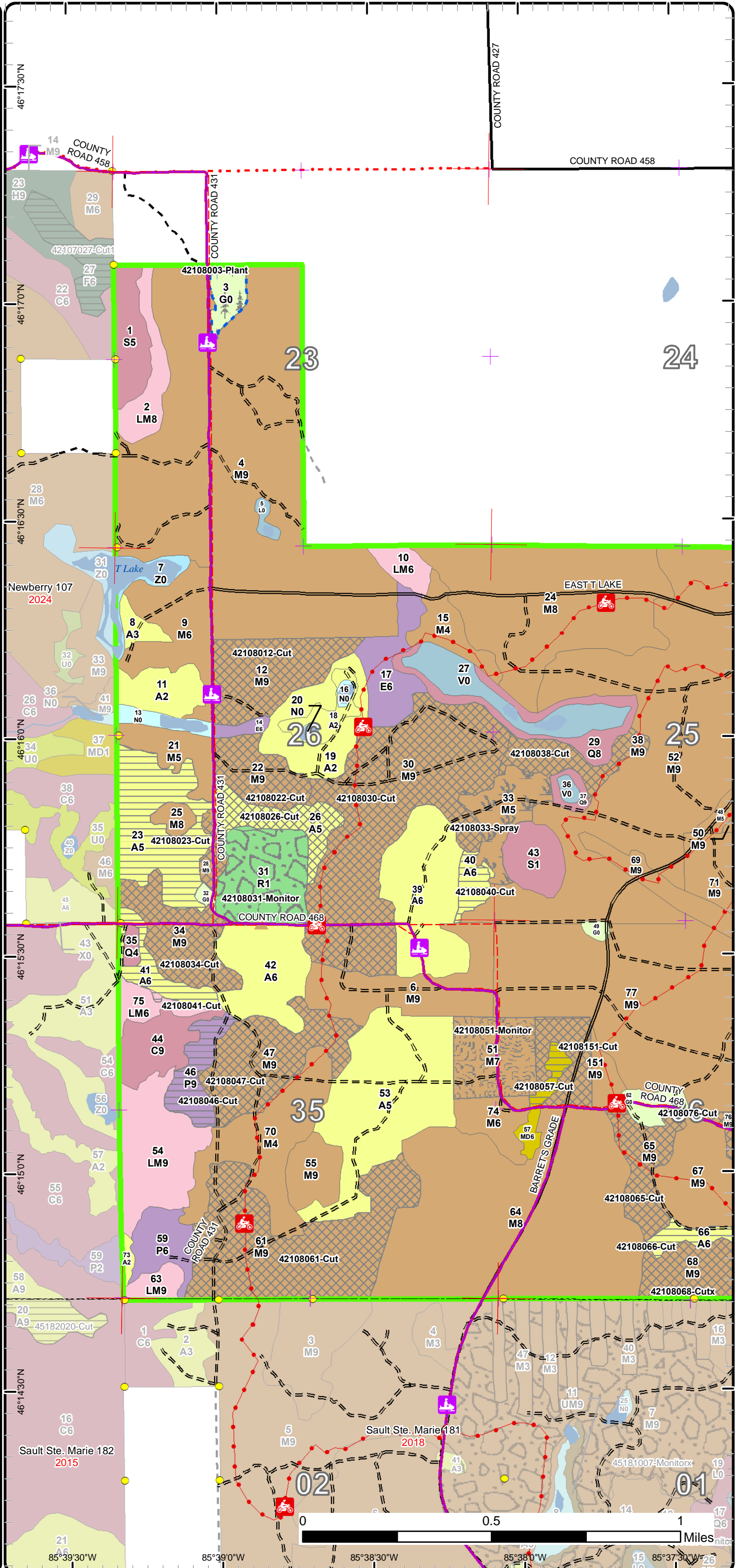


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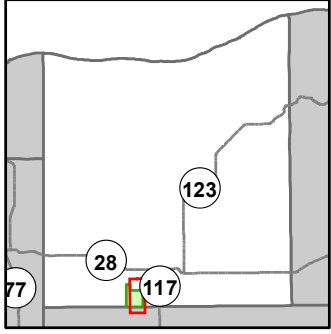
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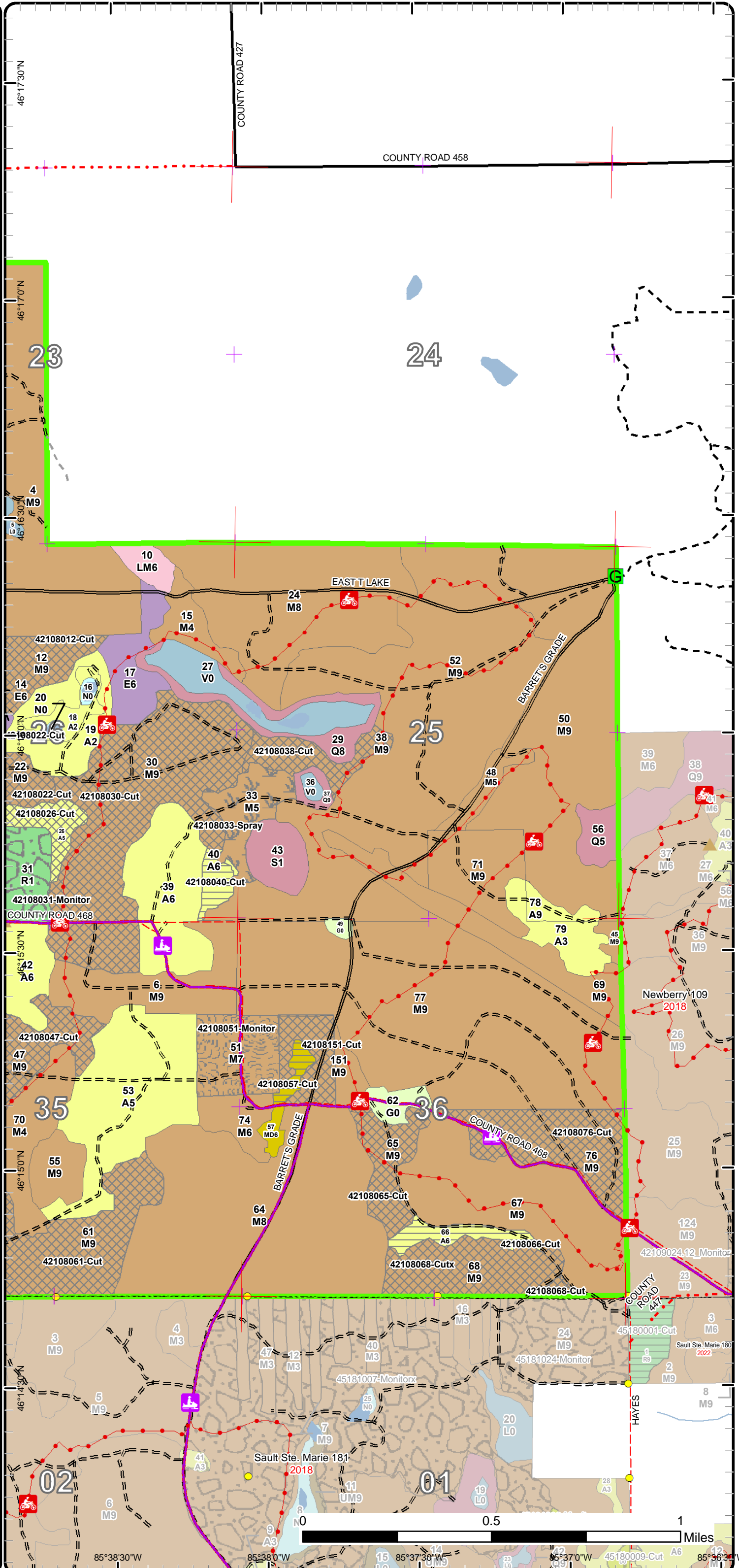
85°39'30"W 85°39'0"W 85°38'30"W 85°38'0"W 85°37'30"W

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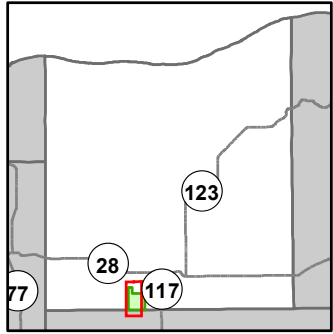


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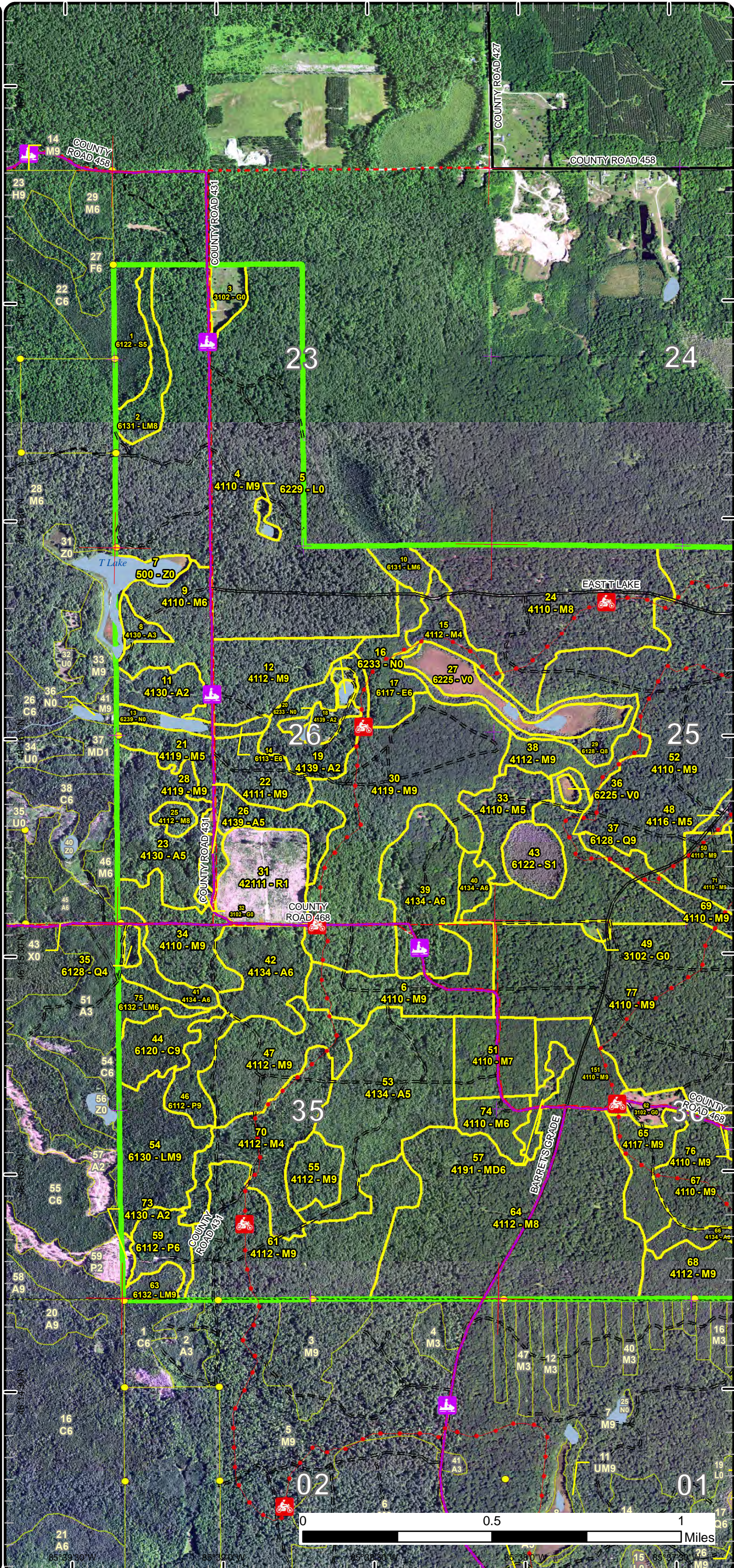


Stand Boundary Map

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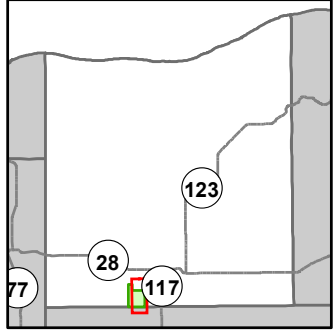


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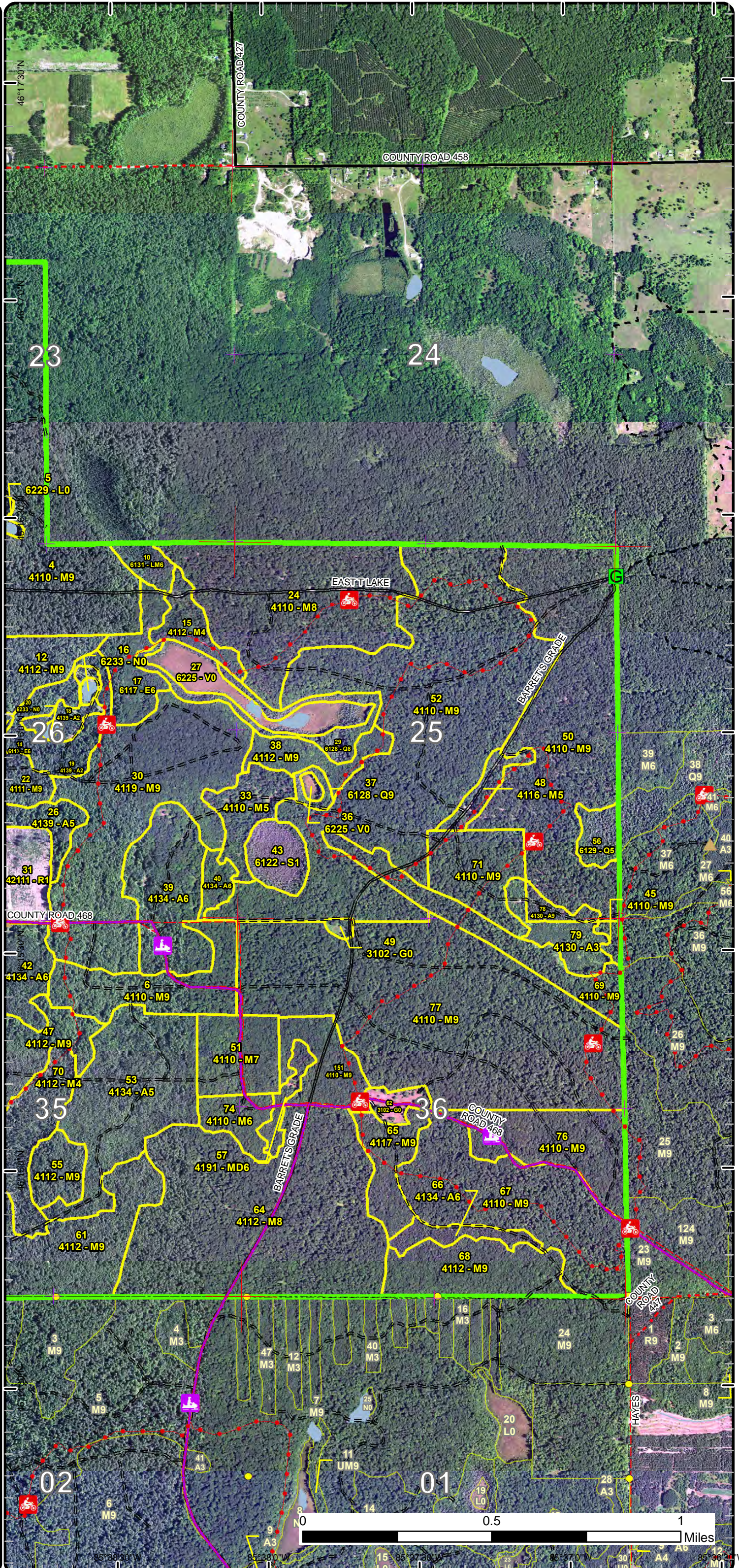


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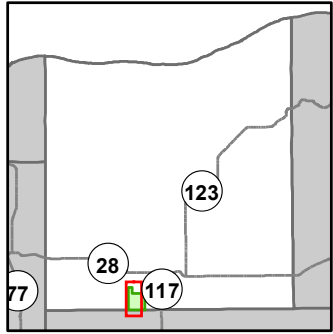


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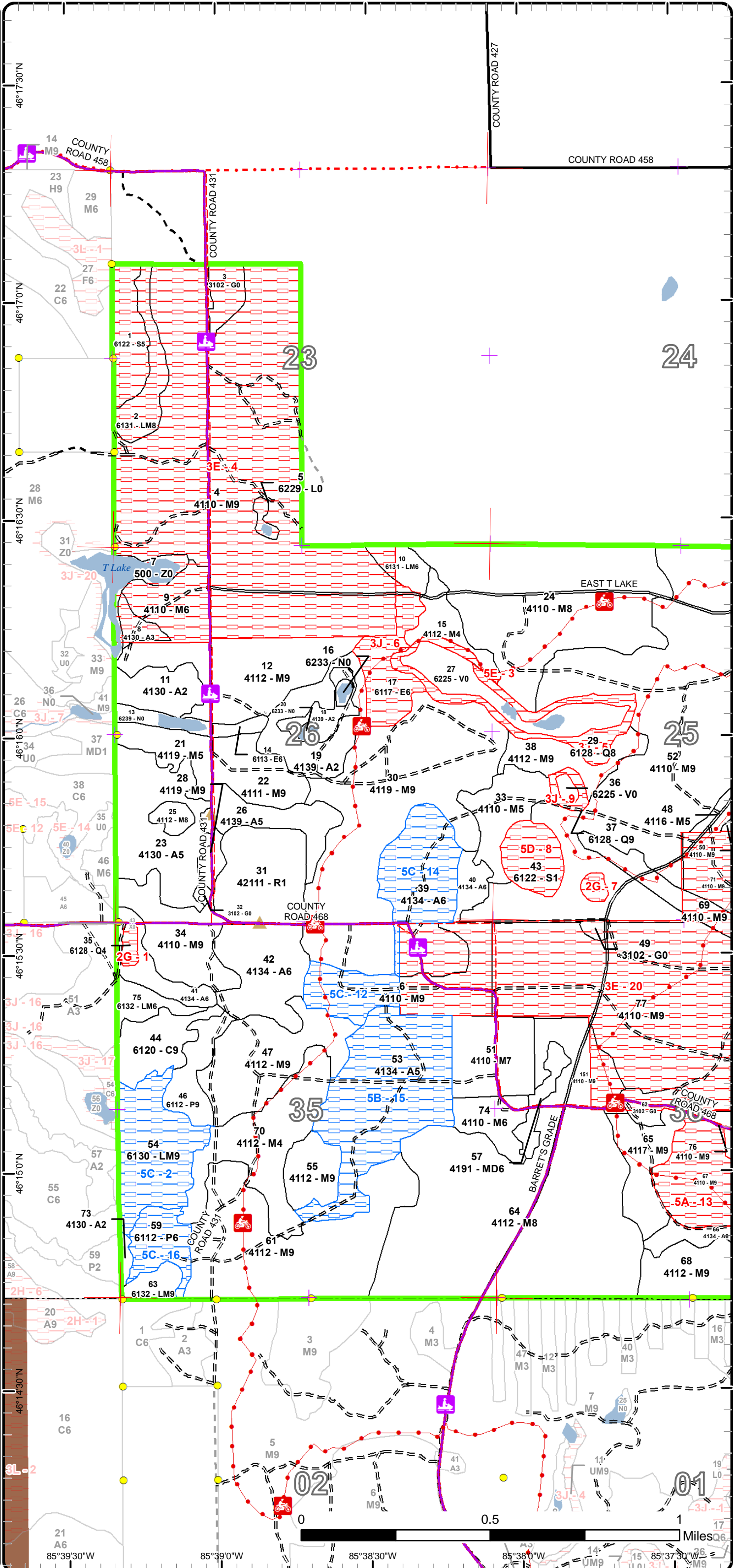


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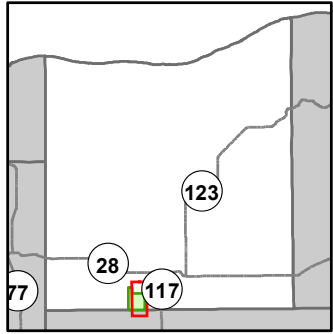


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- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas

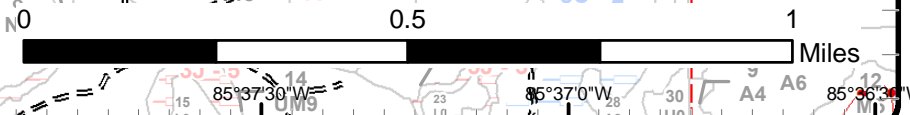
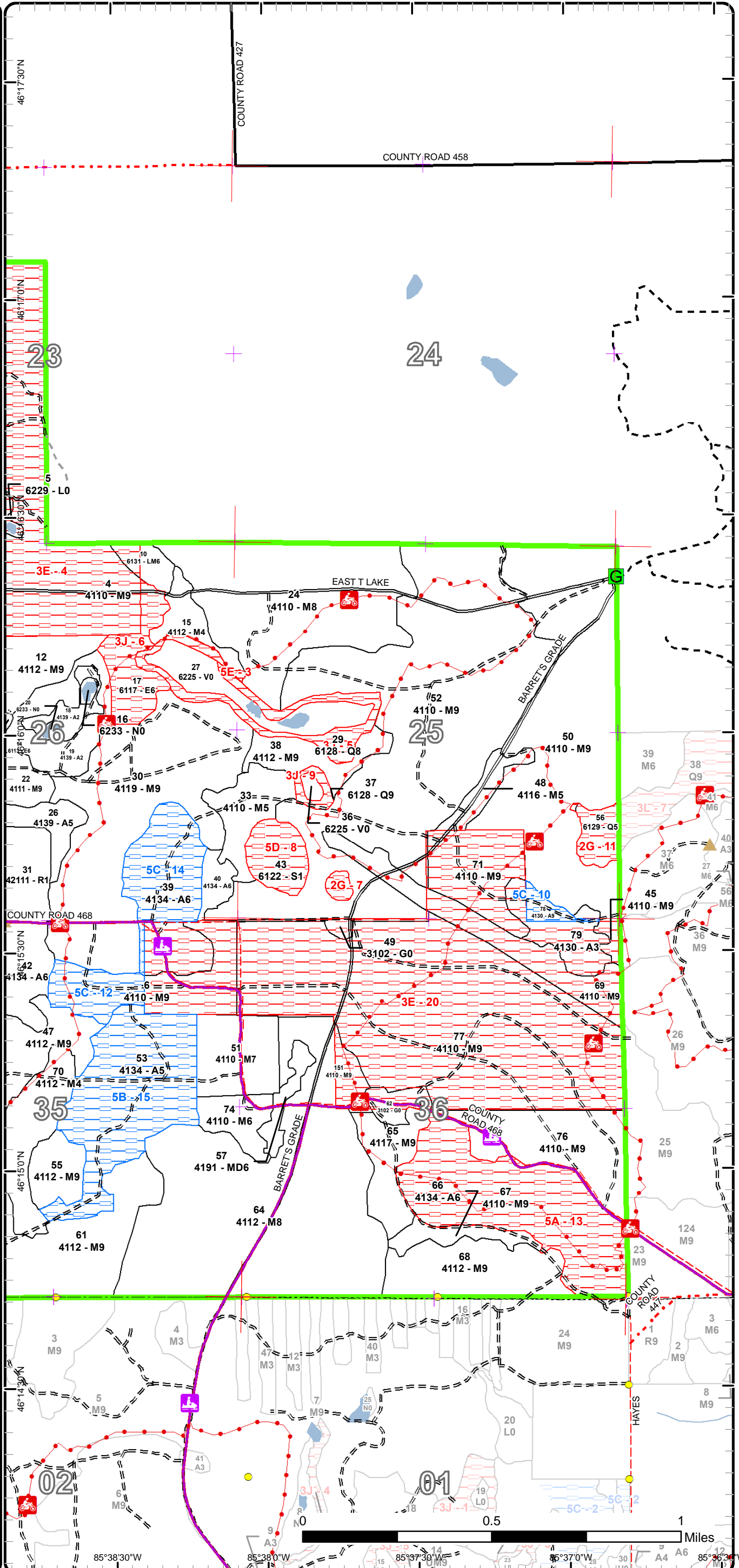


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- Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 108 Year of Entry 2023

Lester Livermore : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	24	25	27	50	58	0	71	86	0	0	0	0	0	0	0	0	0	341
Bog	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Cedar	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	16	16	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	0	17	0	0	20	0	0	0	0	0	0	37
Lowland Deciduous	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	23	25
Lowland Mixed Forest	0	0	0	0	0	9	0	8	0	59	7	0	0	0	0	0	0	0	82
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	0	0	0	0	0	0	17	0	0	0	0	19	0	0	0	0	0	0	35
Marsh	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	48	15	0	59	61	1362	269	0	0	0	0	0	296	2110
Red Pine	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	70	61	25	27	50	115	35	95	186	120	1369	328	0	0	0	0	0	319	2795



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 108

Total Compartment Acres: 2,796

Commercial Harvest - 623
 Harvests with Site Condition - 0
 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	77	19	0	0	0	0	0	0	0	96
Lowland Aspen/Balsam Poplar	16	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	507	0	0	0	0	0	0	0	507
Total	98	526	0	0	0	0	0	0	0	623

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	623	0	9	0	0	22	66	0	0	720
Next Step	0	0	0	0	0	9	654	517	0	1179
Total	623	0	9	0	0	30	720	517	0	1899



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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Approved Treatments:

3	42108003-Plant	8.8	3102 - Grass	Nonstocked		Immature	Planting	Interplant	330 - Low-Density Trees		No
<p><u>Prescription</u> Plant scattered oak and apple trees to benefit wildlife.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Hand Application; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Grass with planted oak and apple trees.</p> <p><u>Regen:</u></p> <p><u>Other</u> Site has oak and apple trees planted scattered throughout. Treatment purpose to plant either additional or supplement mortality.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Non-Military Lease/Easement</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
12	42108012-Cut	38.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin the stand to approximately 70-90 basal area while following standard marking guidelines. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Target overmature and poor form/health individuals while harvesting all diameter classes. Retain conifer and a few aspen in the stand, especially along adjacent aspen stands. Retain a representation of high quality cherry where it exists. Limit elderberry and raspberry regeneration and promote sugar maple by doing the following: Avoid creating large canopy openings; avoid regeneration gaps larger than 1 chain diameter; avoid marking to a lower basal area than prescribed; discourage soil disturbance upon harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Other, Pre-Commercial Thinning - Hand</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, yellow birch and cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
22	42108022-Cut	21.5	4111 - S.Maple, Hard Mast Association	Sawtimber Well	98	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin the stand to approximately 70-90 basal area while following standard marking guidelines. Target overmature and poor form/health individuals while harvesting all diameter classes. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Retain conifer and a few aspen in the stand, especially along adjacent aspen stands. Retain a representation of high quality cherry where it exists. Limit elderberry and raspberry regeneration and promote sugar maple by doing the following: Avoid creating large canopy openings; avoid regeneration gaps larger than 1 chain diameter; avoid marking to a lower basal area than prescribed; discourage soil disturbance upon harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Other, Pre-Commercial Thinning - Hand</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, cherry and yellow birch.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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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
23 42108023-Cut	46.1	4130 - Aspen	Poletimber Medium	63		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all species present including aspen, maple, cherry, fir, spruce, ironwood and birch. Retain a component of fir. Pocket retention 3 - <u>Specs:</u> 5%. Retain some mature aspen in the red line. Create 1 drumming log per 4 acres by hinge cutting or tipping over trees of any species scattered across the stand that are 9-15 inches in diameter and within sight of the redline.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with maple, cherry, fir and birch. <u>Regen:</u></p> <p><u>Other</u> Two inch specification on hardwood within the timber sale contract to promote aspen regen. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
26 42108026-Cut	19.2	4139 - Aspen, Mixed Deciduous	Poletimber Medium	60	81-110	Harvest	Group Selection	4116 - Mixed N. Hardwood - Aspen	Uneven-Aged	No
<p><u>Prescription</u> Modified group selection. Target all aspen, ironwood and balsam fir for harvest creating canopy gaps for hardwood regeneration and <u>Specs:</u> succession. Areas of higher basal area mark overstory maple, cherry and birch providing for future forest health. Do not thin the stand below 70 ft^2 basal area. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Retain any white pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Maple, cherry, yellow birch, fir with aspen. <u>Regen:</u></p> <p><u>Other</u> Some areas will need to be cut tree marked whereas others can be specified within the timber sale contract. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
28 42108028-Cut	5.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to 70 - 90 basal area. Focus on poor form individuals (forks) for harvest but leave a few for nest trees. Avoid large regen gaps to <u>Specs:</u> limit raspberry and elderberry regen while promoting existing sapling regen. Retain conifer and a few aspen in the stand, especially along adjacent aspen stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u></p> <p><u>Acceptable</u> Maple, birch, and cherry with basswood and fir. <u>Regen:</u></p> <p><u>Other</u> Mark any road hazards that exist within the site. Nest trees have fork that is at least 1/2 to 2/3 of the way up. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
30 42108030-Cut	126.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	98	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin the stand to approximately 80-90 basal area while following standard marking guidelines. Target overmature and poor form/health individuals while harvesting all diameter classes. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Retain conifer and a few aspen in the stand, especially along adjacent aspen stands. Retain a representation of high quality cherry where it exists. Limit elderberry and raspberry regeneration and promote sugar maple by doing the following: Avoid creating large canopy openings; limit regeneration gaps to 1 chain in diameter; avoid marking to a lower basal area than prescribed; discourage soil disturbance upon harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Other, Pre-Commercial Thinning - Hand</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sugar maple with red maple, birch, cherry and infrequent aspen.</p> <p><u>Other Comment:</u> Portions of the stand will be a light marking, while central northern portion currently high BA.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
31 42108031-Monitor	36.7	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	4	Immature	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> monitor for regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Other, Pre-Commercial Thinning - Hand</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is Red/White Pine.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
33 42108033-Spray	21.5	4110 - Sugar Maple Association	Poletimber Medium	70	1-50	Pesticide	Hand Application	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Herbicide application for wild parsnip within the site.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Currently observed species except wild parsnip.</p> <p><u>Other Comment:</u> Based on WLD recommendations and administration.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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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34	42108034-Cut	32.1	4110 - Sugar Maple Association	Sawtimber Well	94	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin the stand to 70 - 90 basal area. Target a variety of diameter classes using standard marking guidelines including larger and overmature individuals. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Retain conifer and a few aspen in the stand, especially along adjacent aspen stands. Retain a representation of high quality cherry where it exists. Limit elderberry and raspberry regeneration and promote sugar maple by doing the following: Avoid creating large canopy openings; avoid regeneration gaps larger than 1 chain diameter; avoid marking to a lower basal area than prescribed; discourage soil disturbance upon harvest. Cut majority of the ironwood where present.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate); Other, Pre-Commercial Thinning - Hand</p> <p><u>Acceptable Regen:</u> Sugar maple with red maple, black cherry.</p> <p><u>Other Comment:</u> Larger diameter classes overrepresented in the diameter distribution probably in part due to lack of maple regeneration over the last few harvests. Pockets of the stand will be a light thinning.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

38	42108038-Cut	17.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	82	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark the stand to approximately 80 ft2 basal area targeting all species and size classes. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Focus on poor form maple and cherry for removal while retaining a representation of high quality cherry where it exists. Avoid large canopy gaps to limit raspberry and elderberry regeneration. Harvest all ironwood and any larger aspen however retain aspen in the red line where it exists.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Maple and cherry with a component of ironwood, beech, red maple, birch and basswood.</p> <p><u>Other Comment:</u> Lowland stand to the north is sufficient buffer for the lowlands for the timber sale.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

40	42108040-Cut	6.9	4134 - Aspen, Spruce/Fir	Poletimber Well	72	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all species including aspen, birch, maple, cherry, balsam and spruce. Retain any large white pine. No other retention needed based on acreage.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen with sugar and red maple, cherry, birch and fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
41 42108041-Cut	13.4	4134 - Aspen, Spruce/Fir	Poletimber Well	46	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all individuals across the stand to allow for coppice regeneration. Retain any white pine. Pocket retention 3 - 5%. Create 1 drumming log per 2 acres by hinge cutting or tipping over trees of any species scattered across the stand that are 9-15 inches in diameter and within sight of the redline.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen and birch with some spruce and fir.</p> <p><u>Other Comment:</u> Old skid trail may serve as the southern boundary.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
46 42108046-Cut	15.6	6112 - Lowland Aspen	Sawtimber Well	77	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all species present to promote a vigorous even aged stand. Pocket retention 3 - 5%. Wetter portions of the stand may serve as retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen with maple, black ash, birch, cedar, fir, hemlock and white pine.</p> <p><u>Other Comment:</u> Western and southern portions of the site will be more diverse in regeneration and are wetter. Potentially winter harvest based on soil conditions present.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
47 42108047-Cut	44.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark stand 80 to 90 ft2 basal area. Target poor form pole size classes for harvest while promoting good quality poles. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Follow standard marking guidelines however limit regeneration gaps to 1 chain diameter to limit elderberry and raspberry establishment. Retain a representation of high quality cherry where it exists.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate); Other, Pre-Commercial Thinning - Hand</p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, cherry, with some aspen.</p> <p><u>Other Comment:</u> Some portions of the stand are dense poles; attention to harvesting operations should be considered while marking.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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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51	42108051-Monitor	29.4	4110 - Sugar Maple Association	Sawtimber Poor	96	1-50	Monitoring	Other - Specify	411 - Northern Hardwood	Even-Aged	No
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Prescription Monitoring of research results to be done by MSU (MWR research project)

Specs:

Next Step

Treatments:

Acceptable northern hardwoods

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 4 /1 /2020

57	42108057-Cut	4.8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	72	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all species to promote aspen regeneration. No retention due to small acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with maple and cherry.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

61	42108061-Cut	90.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin the stand to 80ft² basal area. Follow standard marking guidelines. Target overmature and poor form individuals, especially in the western portion, whereas the eastern portion focus on thinning the pole size classes. Harvest all aspen and ironwood. Acreage may change upon sale prep. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Retain a representation of high quality cherry where it exists.

Next Step Monitoring, Natural Regen (Intermediate); Other, Pre-Commercial Thinning - Hand

Treatments:

Acceptable Sugar maple with red maple, fir, yellow birch and aspen.

Regen:

Other Portions of the stand will be a light thinning to achieve basal area. Exclude any areas with the boundary line that may have low or adequate basal area.

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
65 42108065-Cut	22.7	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	82	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Thin the stand to approximately 80 - 90 basal area. Follow marking guidelines and target poor health/form individuals including cherry with black knot. Retain a representation of high quality cherry where it exists. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Avoid regeneration gaps to avoid raspberry and elderberry introduction. Retain a representation of large white pine and high quality cherry. Summer harvest to promote soil disturbance for regeneration purposes.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Other, Pre-Commercial Thinning - Hand</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple and cherry with balsam and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Standard atv trail protections during harvest and upon sale closure.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
66 42108066-Cut	10.7	4134 - Aspen, Spruce/Fir	Poletimber Well	45	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Target all species for harvest. No retention due to small acreage.</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 with maple, cherry birch and fir.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
68 42108068-Cut	2.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark stand to 80 to 90 Basal Area. Retain all beech and conifer. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present. Don't cut any conifer</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> Northern Hardwoods</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 /2017</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
68	42108068- Cutx	40.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Thin the stand to approximately 80-90 basal area while following standard marking guidelines. Target overmature and poor form/health individuals while harvesting all diameter classes. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Retain conifer and a representation of high quality cherry where it exists. Limit elderberry and raspberry regeneration and promote sugar maple by doing the following: Avoid creating large canopy openings; avoid marking to a lower basal area than prescribed; discourage soil disturbance upon harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Other, Pre-Commercial Thinning - Hand <u>Treatments:</u></p> <p><u>Acceptable</u> Maple and cherry with balsam. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
76	42108076-Cut	46.4	4110 - Sugar Maple Association	Sawtimber Well	95	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Thin the stand to approximately 80-90 basal area while following standard marking guidelines. Target overmature and poor form/health individuals while harvesting all diameter classes. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Retain conifer and a representation of high quality cherry where it exists. Limit elderberry and raspberry regeneration and promote sugar maple by doing the following: Avoid creating large canopy openings; avoid marking to a lower basal area than prescribed; discourage soil disturbance upon harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Other, Pre-Commercial Thinning - Hand <u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple with yellow birch and black cherry. <u>Regen:</u></p> <p><u>Other</u> Portion of the stand went untreated several inventory cycles. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
151	42108151-Cut	18.1	4110 - Sugar Maple Association	Sawtimber Well	96	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Thin the stand to approximately 80-90 basal area while following standard marking guidelines. Target overmature and poor form/health individuals while harvesting all diameter classes. Leave a representation of forked trees (fork is at least 1/2 to 2/3 of the way up for future nest trees) and large wildlife trees. Retain conifer and a representation of high quality cherry where it exists. Limit elderberry and raspberry regeneration and promote sugar maple by doing the following: Avoid creating large canopy openings; avoid marking to a lower basal area than prescribed; discourage soil disturbance upon harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Other, Pre-Commercial Thinning - Hand <u>Treatments:</u></p> <p><u>Acceptable</u> Maple and cherry with spruce, balsam, white pine, aspen and birch. <u>Regen:</u></p> <p><u>Other</u> Treatment over a portion of the stand due to split stand and luce county lease site condition. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

Total Treatment 719.6
Acres Proposed:

Report 4 – Site Conditions

Newberry Mgt. Unit
Lester Livermore : Examiner

Compartment: 108
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions									
		With Condition				5B	5C	2G	3E	3J	5A	5D	5E		
341	186	119		36	Aspen	79	40		36						
27	27	0		0	Bog					0					
20	20	0		0	Cedar										
20	4	0		17	Herbaceous Openland				17						
32	16	16		0	Lowland Aspen/Balsam Poplar		16								
37	0	0		37	Lowland Conifers			13		24					
26	3	0		22	Lowland Deciduous				0	22					
83	22	42		19	Lowland Mixed Forest		42		19						
3	0	0		3	Lowland Shrub				3						
35	0	0		35	Lowland Spruce/Fir				19				17		
9	9	0		0	Marsh										
8	8	0		0	Mixed Upland Deciduous										
2107	1380	18		709	Northern Hardwood		18	3	615	0	88				3
37	37	0		0	Red Pine										
10	1	0		10	Water				10						
2,796	1,712	196		888	Total Forested Acres	79	117	16	718	46	88	17			3
	61%	7%		32%	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	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Lester Livermore : Examiner

Compartment: 108
Year of Entry: 2023

3	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer left along ORV trail to serve as retention area.							
4	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	355	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Luce County Lease Lands							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23				
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland mixed pocket previously delineated as its own stand.							
8	Unavailable	5D: Unproductive Forest Land	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Lester Livermore : Examiner

Compartment: 108
Year of Entry: 2023

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider treatment next YOE							
13	Unavailable	5A: Not able to obtain desirable regeneration	88	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See stand comments for current regeneration levels. Consider treatment next YOE after regeneration is allowed to flush.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider treatment next cycle.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Lester Livermore : Examiner

Compartment: 108
Year of Entry: 2023

15	Available	5B: Maintain for regeneration purposes	79	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider next treatment next inventory cycle.							
20	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	363	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Luce County Lease Lands							

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
1	6122 - Black Spruce	Poletimber Medium	18.7	100		N/A	Luce county lease land. Medium quality/stocking black spruce.																																																						
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2	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Medium	16.5	82	81-110	N/A	Luce county lease land. Southern half of the stand has more W.P and Hemlock as well as a few small wet openings with alder.																																																						
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3	3102 - Grass	Nonstocked	8.8		Immature	Managed Opening	Luce County Lease Lands. Site contains multiple planted and fenced apple trees. Site contains a lot of Spotted Knapweed.																																																						
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4	4110 - Sugar Maple Association	Sawtimber Well	269.4	100	51-80	N/A	County lease land. Very nice hardwood stand. Lower basal area in some areas. Good SM regeneration throughout the stand, however deer browse is heavy in some areas.																																																						
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5	6229 - Mixed lowland shrub	Nonstocked	2.5		Unspecified	No	Small wet pocket in the stand. Merged adjacent pockets into one.																																																						



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6	4110 - Sugar Maple Association	Sawtimber Well	42.3	96	111-140	N/A	Stand was part of a larger stand before being broken up by MWR harvest. Eastern portion of the stand is Luce County lease land.																																														
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8	4130 - Aspen	Sapling Well	5.4	9	Immature	N/A	Fully stocked aspen stand harvest last inventory cycle. Luce county lease.																																														
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12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	38.0	98	111-140	N/A	Current basal area around between 100 and 120 ft ² . Good class of poles throughout the stand. Great regeneration of 1 inch diameter class of cherry and maple saplings now 5' to 20' tall. Ironwood regeneration also present. Raspberry growth has now subsided since the stand was cut as 431 Hardwoods, sale# 002-03-01 completed 4/21/2004.																																																						
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13	6239 - Mixed Emergent Wetland	Nonstocked	6.5		Immature	No																																																							
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14	6113 - Lowland Maple	Poletimber Well	3.3	52	51-80	N/A	Hardwood stand is limited by topography and is part of a drainage. Similar HW stands were harvested north and south of the drainage.																																																						
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15	4112 - Maple, Beech, Cherry Association	Poletimber Poor	15.0	72	1-50	N/A	Poles occupy majority of the canopy across the stand. Substantial aspen regeneration with cherry, now 10 foot tall, overtopping hazelnut. Some places heavier to cherry regen. Pockets of hardwood regen. Cut in 2014 Final Harvest Mix (420271301). All aspen, balsam and spruce cut. Left one aspen per 5 acres, and didn't cross ORV trail along southern edge.																																																						
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17	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	22.5	78	51-80	N/A	Intermittent stream runs through the northern half of the stand and creates a significant pool of standing water. Culvert in the road in good shape. Overall is a nice mixed hardwood/softwood stand and should be left in tact to protect the intermittent stream.																																																			
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18	4139 - Aspen, Mixed Deciduous	Sapling Medium	8.6	13	Immature	N/A	Few oak planted trees within the site appear to be doing well. Cherry and white pine seedlings starting to establish in the site.																																																			
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19	4139 - Aspen, Mixed Deciduous	Sapling Medium	27.0	26	Immature	N/A	Stand was part of multiple cuts. Sale #: 53-95, 36-94. Variable stand: several openings with scrub BC, some pockets of hardwoods. Mainly consists of young aspen saplings.																																																			
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21	4119 - Mixed Northern Hardwoods	Poletimber Medium	16.2	74	51-80	N/A	Marginal pole stand. Canopy is open in small areas throughout the stand and SM is coming through.																																																							
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22	4111 - S.Maple, Hard Mast Association	Sawtimber Well	21.5	98	81-110	N/A	Ironwood dominates portions of the subcanopy with trace amount of sugar maple under 10 feet. Stand was managed by selection as 431 Hardwoods sale# 002-03-01 completed 4/21/2003.																																																							
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23	4130 - Aspen	Poletimber Medium	46.0	63		N/A	Nice aspen throughout the stand but it is variable. Aspen log sized diameter class intermixed with poles throughout. Hardwood sapling regeneration underneath canopy. Quite a few grass/reindeer moss openings with scrub black cherry scattered throughout the stand.																																																							
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24	4110 - Sugar Maple Association	Sawtimber Medium	111.2	93	81-110	N/A	Canopy closure estimated around 85% post thinning. Basal area averages around 80 ft ² . Pockets of decent maple recruitment although elderberry presence can be high throughout the stand; however it is finally starting to die out. SM regeneration is scattered in high density pockets throughout. This stand was cut: #027-93 and again as selection cut in 2015 as part of Barret's Grade Hardwoods #11-14. TCR 7/26/16.																																																							
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25	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	4.7	84	81-110	N/A	Stand exists on a round hill. Current basal area around 90. Regen post harvest includes sugar maple, red maple, paper birch and cherry. Openings with small aspen and scrub black cherry surrounds the stand. Cut as part of Final Harvest Mix (420271301) in 2014.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26	4139 - Aspen, Mixed Deciduous	Poletimber Medium	19.2	60	81-110	N/A	Multistoried stand. Canopy gaps and understory are the second age class.. Canopy borderline log sized stand.. Small changes in topography generates small hardwood pockets, log and pole size class aspen scattered throughout the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		20	Pole/Log	8		Sugar Maple		Low	Variable	Sapling
Red Maple		5	Pole	6		Ironwood		Medium	>20 feet	Sapling
Yellow Birch		10	Pole	6		Red Maple		Medium	Variable	Sapling
Quaking Aspen		45	Pole/Log	8	60	Balsam Fir		Medium	Variable	Sapling
Balsam Fir		10	Pole/Log	8		Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub
Black Cherry		10	Pole/Log	8						

27	6225 - Bog	Nonstocked	25.2			No	Contains some Tamarack and B. spruce on the edges. Leatherleaf throughout.
Sub-Canopy Species		Density	Avg. Height	Size			
Tamarack		Low		Sapling			
Leatherleaf		Full		Tall Shrub			
Alder		Low		Tall Shrub			
Black Spruce		Low		Sapling			

28	4119 - Mixed Northern Hardwoods	Sawtimber Well	5.8	78	111-140	N/A	Small hardwood stand along the county road. Basswood is getting large and beginning to degrade. Evidence of deer browse in the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		30	Log/Pole	11	78	Sugar Maple		Low	5 - 10 feet	Sapling
Red Maple		15	Log/Pole	11		Balsam Fir		Medium	10 - 20 feet	Sapling
Yellow Birch		17	Log	12		Black Cherry		Low	5 - 10 feet	Sapling
Basswood		15	Log/Pole	12		Ironwood		Low	5 - 10 feet	Sapling
Beech		3	Log	12		Beech		Low	10 - 20 feet	Sapling
Balsam Fir		5	Pole	5						
Black Cherry		10	Pole/Log	9						
Ironwood		5	Pole	6						

29	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	20.3	100	Unspecified	N/A	Mixed conifer stand that acts as a buffer for low area to the northwest.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		30	Log/Pole	10		Red Maple		Low	5 - 10 feet	Sapling
Black Spruce		8	Pole/Log	9		Balsam Fir		Low	5 - 10 feet	Sapling
White Pine		27	XLog/Log	18		Tag Alder		Low	5 - 10 feet	Tall Shrub
Hemlock		35	Log/Pole	10	100	Tamarack		Medium	>20 feet	Sapling



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30	4119 - Mixed Northern Hardwoods	Sawtimber Well	126.7	98	111-140	N/A	Portions of the stand have basal areas upwards of 140. Sugar maple borer in some of the SM poles. Black cherry dominates in some areas to the east (heavy black knot disease). There is a small pocket of dense, young SM in the southern finger of the stand, aspen poles are scattered throughout this area also. Herbaceous vegetation consisting of: trillium, trout lily, leek, occasional sweet cicely and some maiden hair fern.																																																													
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31	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	37.1	4	Immature	N/A	Regen check fall 2018. Fully stocked. Advance to 3yr check. FTP # 42-841. Planted to RP in trenches 5/10/17. Stand was trenched and herbicide sprayed in summer of 2016. Cut and chipped as part of Final Harvest Mix (420271301) in 2014. Left green painted trees.																																																													
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32	3102 - Grass	Nonstocked	1.6		Unspecified	No	Small grassy opening. Aspen and Black cherry is slowly filling in the opening. Site was KG'ed in 1974. Newberry fire spot map (1928-25) indicates activity.																																																													
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33	4110 - Sugar Maple Association	Poletimber Medium	21.5	70	1-50	N/A	Cut in 2014 - Final Harvest Mix (420271301). Left one aspen per 5 acres. Only cut aspen, balsam and spruce. Small openings within stand.																																																													
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34	4110 - Sugar Maple Association	Sawtimber Well	32.1	94	81-110	N/A	Stand was thinned as "Eight Line Hardwoods" 041-03-01 and completed 2/9/2006. Current basal area ranges from 70 to 120 with average around 110. with infrequent canopy gaps slowly closing in. Past inventory indicates regeneration is poor due to the abundance of raspberry. Current sapling regen consists of black cherry with maple and beech. Some deer browse on the maple. Rolling topography. Good northern hardwood log stand.																																																													
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35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	2.7	73	Unspecified	N/A	Lowland area within aspen stand. Poor dirt road runs along the west edge of the low area.																																																								
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36	6225 - Bog	Nonstocked	2.0			No																																																									
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37	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	3.7	78	Unspecified	N/A	This stand acts as a buffer for the low area within. There is a mix of species leading down to open water.																																																								
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38	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.9	82	111-140	N/A	High basal area averaging around 120. Stand dominated by black cherry in many places which has quite a bit of black knot on it.																																																								
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39	4134 - Aspen, Spruce/Fir	Poletimber Well	49.6	38	Unspecified	N/A	Multistory Stand; Nice aspen poles in clumps throughout the stand. Very strong SM undergrowth throughout. Several openings scattered throughout with scrub BC. Undergrowth of alder in low pockets.																																																								
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40	4134 - Aspen, Spruce/Fir	Poletimber Well	7.3	72	Unspecified	N/A	Mixed stand mainly consists of aspen clones spread throughout the stand. SM and BF mixed throughout the stand.																																																		
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41	4134 - Aspen, Spruce/Fir	Poletimber Well	13.0	46	Unspecified	N/A	Majority of the stand has moderate south aspect as upland areas situated mostly in north and east where lower ground in the south. Uplands dominated by pole and log sized aspen; some blowdown present. Transition areas and lower portions within the site are generally small pole sized aspen dominated with cedar, red maple, paper birch and fir either co-dominant or overtopped. Occasional birch pockets situated on wet ground.																																																		
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42	4134 - Aspen, Spruce/Fir	Poletimber Well	34.1	46	Unspecified	N/A	Good young aspen stand. Some large poles throughout but most of the stand is 3-6" stems. Openings throughout, some of which are starting to fill in. Some other hardwoods mixed in. Sale #'s: 5-76, 85-81. Opening in the northern part of the stand previously had an oak planting treatment and will reinitiated if needed.																																																		
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43	6122 - Black Spruce	Sapling Poor	16.5	53		N/A	The perimeter has some larger spruce and tamarack; however trees decrease in size drastically as you move towards the center of the stand.																																																		
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44	6120 - Lowland Cedar	Sawtimber Well	20.1	108	171-200	N/A	Drainage runs through the stand.																																																		
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45	4110 - Sugar Maple Association	Sawtimber Well	3.2	95	81-110	N/A	Stand is similar composition to adjacent hardwood stands. Luce County Lease Land.																																																		
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46	6112 - Lowland Aspen	Sawtimber Well	15.6	77	81-110	N/A	Mixed lowland deciduous/conifer stand. Drainage runs on the western edge of the stand. Some of the aspen is very large and degraded/falling down and is creating small openings.																																																													
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47	4112 - Maple, Beech, Cherry Association	Sawtimber Well	44.5	92	111-140	N/A	Dense sugar maple pole stand. Basal area upwards of 140 ft ² in some areas. Some cherry, yellow birch, balsam fir and aspen scattered throughout the stand. A lot of deer activity and browse on small seedlings. More red maple in western portion of the stand.																																																													
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48	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	9.7	85	51-80	N/A	There are big openings in the north and south portions of the stand. Barrett's Grade runs through the stand. Variable size classes throughout the stand. Some openings are producing good SM regeneration. ORV trail runs through the east edge of the stand.																																																													
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49	3102 - Grass	Nonstocked	2.1	0	Unspecified	No	Grass opening with black cherry and sugar maple scattered throughout. Site dominated by raspberry and elderberry. Luce County Lease Land.																																																													
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50	4110 - Sugar Maple Association	Sawtimber Well	148.5	92	81-110	N/A	Quality hardwood stand. Canopy gaps now starting to close and some decent maple recruitment throughout. Isolated pockets of elderberry. ORV trail runs through the stand. Herbaceous vegetation consisting of: trillium, trout lily, leek, occasional sweet cicely and some maiden hair fern. 12/12/16: Selection cut in 2015 as part of Barret's Grade Hardwoods #11-14.																																																													
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51	4110 - Sugar Maple Association	Sawtimber Poor	29.5	96	1-50	N/A	Variable stand: Several pockets of small SM regeneration. B. cherry has heavy black knot. 11/28/18: Stand is part of MWR research project. Harvested via Shelterwood cut, cutting all trees greater than 2" dbh and removing all slash off site. M-117 MWR, #004-17. Stand will have a follow-up treatments of herbicide and scarification. FTP 42-917. Site was sprayed 8/7/2020 and scarified 9/25/2020. A blanket monitoring treatment was applied to all MWR sites within the unit.																																																			
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52	4110 - Sugar Maple Association	Sawtimber Well	245.1	95	81-110	N/A	Basal area ranges roughly from 70 to 120. Southern portion has relatively higher basal area than that of the northern portion. Lower areas include patches thinned harder last harvest and very infrequent beech pockets of beech mortality creating canopy openings. Low amount of regeneration of maple and cherry typically 10' with sparse to no seedlings. Elderberry dominating the understory in the northern portion of the stand. Stand was cut; Barrett Grade Hardwoods, 014-03-01 completed 5/15/2008. Stand was separated from the lease lands to the south this YOE based on harvest prior to this YOE.																																																			
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53	4134 - Aspen, Spruce/Fir	Poletimber Medium	79.1	70	1-50	N/A	Older component of aspen now falling out of the stand in some areas and large saplings / small poles now dominate majority of stand. Mixed bag of cocanopy mostly comprised of maple, aspen and cherry poles with infrequent older aspen; maple saplings dominate subcanopy. The stand has several openings. Northern portions of the stand have higher concentrations of balsam fir.																																																			
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54	6130 - Fir, Aspen, Maple	Sawtimber Well	42.0	84	111-140	N/A	Mixed stand. Large cedar spread throughout the stand. The canopy consists of pockets of small BF, red maple throughout, pockets of large BF and scattered BT. Aspen throughout the stand.																																																			
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55	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.3	81	81-110	N/A	Some good wildlife snags throughout the stand. Hard maple poles are in good condition, some of the large logs, especially beech are starting to degrade. Center of the stand is dominated by log size classes whereas the perimeter is denser pole size classes. Entire stand averages around 95 BA.																																																			
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56	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	10.2	70	51-80	N/A	Perimeter has a mix of species with large WP, interior has small tamarack/WP. Center of the stand seems to be wet year round. Standing water/low area extends into the hardwoods.																																																									
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57	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.3	72	51-80	N/A	Mixed stand: Aspen poles are poor quality. Nice SM poles throughout the stand.																																																									
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59	6112 - Lowland Aspen	Poletimber Well	16.3	62	51-80	N/A	Multistoried aspen stand. Mostly small poles 3-6", there are quite a few large aspen logs scattered throughout the stand.																																																									
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61	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90.4	95	81-110	N/A	Part of this stand was marked and put up for sale#: 037-94. It was not cut due to producer going out of business. Beech numbers are high in this stand and they are degrading quickly. B. cherry is also in very poor shape; black knot is severe and form is poor. B. cherry numbers are higher in the east half of the stand. SM regeneration is variable throughout the stand. Deer browse is heavy and raspberry is thick in some places underneath the degraded beech. Western portion was thinned several entries ago and basal area is around the 70 - 80 mark yet however canopy is closed. A few standing beech present. Eastern half of stand dominated by pole size classes with infrequent xl aspen, occasionally dead and down. Current BA is variable between 60 and 120.																																																									
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62	3102 - Grass	Nonstocked	7.8		Unspecified	Managed Opening	Grass opening with scattered BC. Stand was planting with oak, May of 2021 with approximately 10 oak. Site was not included in the FTP for similar stands nearby: FTP W42-952 but was added. Luce County Lease Land.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 7.2 98 201+ N/A Drainage runs through the SE corner of the stand. Good mix of cedar and mixed lowland deciduous trees. Stand not visited this YOE.

64 4112 - Maple, Beech, Cherry Association Sawtimber Medium 179.0 92 81-110 N/A Current basal area between 80 and 100 ft2. Moderate to relatively high stocking of 8 -12 year old hardwood sapling regeneration in subcanopy. Regen composed of ironwood, cherry, maple, birch, elderberry, and raspberry respectively to percentage. Majority between 5 - 15' tall and should continue to recruit. Lack of maple regen still an issue however the raspberry and elderberry no longer dominated the subcanopy and understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	13	92	Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	15	Pole	9		Balsam Fir	Low	5 - 10 feet	Sapling
Basswood	8	Log/Pole	11		Red Maple	Low	5 - 10 feet	Sapling
Beech	2	Log	11		Ironwood	High	5 - 10 feet	Sapling
Black Cherry	10	Pole	9		Black Cherry	Medium	10 - 20 feet	Sapling
Ironwood	5	Pole	8		Elderberry	Low	5 - 10 feet	Tall Shrub
					Wild Red Raspberry	Low	5 - 10 feet	Tall Shrub

Stand was thinned as: 108 Hardwoods #012-03-01 and was completed 5/15/2008.

65 4117 - Mixed N. Hardwood - Pine Sawtimber Well 22.4 82 141-170 N/A Black cherry has black knot. Basal area is high throughout the stand, however there are l/xlarge WP logs that get picked up in BA swings.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	40	Log/Pole	10	82	Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	5	Pole	9		Balsam Fir	Medium	10 - 20 feet	Sapling
White Pine	25	XLog/Log	20		Beech	Low	5 - 10 feet	Sapling
Black Cherry	28	Log/Pole	11					
Ironwood	2	Pole	7					

66 4134 - Aspen, Spruce/Fir Poletimber Well 10.7 45 81-110 N/A Stand located adjacent to road and is dominated by pole sized aspen with maple, cherry and fir in association. Stand harvested via clearcut; sale #5-76.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole	5		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole/Sapling	5					
Bigtooth Aspen	59	Pole	8	45				
Balsam Fir	30	Pole	8					
Black Cherry	1	Log	10					

67 4110 - Sugar Maple Association Sawtimber Well 87.6 95 111-140 N/A 1/22/21 - JAT - Stand had an RX for spraying to control/eliminate raspberry/elderberry. Treatment was terminated per discussion with UM. Desirable regen of other species is present. Current equipment and operation limitations prevent conducting a treatment.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/XLog	14	95	Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	10	Log/Pole	12		Ironwood	Low	5 - 10 feet	Sapling
Yellow Birch	10	Log/Pole	12		Elderberry	Medium	5 - 10 feet	Tall Shrub
Black Cherry	10	Log/Pole	11		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
					Balsam Fir	Low	>20 feet	Sapling

Elderberry now finally dying out along with raspberry. Sugar maple and white ash regen present within the stand. Areas still dominated by elderberry. Stand was thinned as 468 Hardwoods sale #013-03-01 and was completed 10/4/2005. Stand was full tree skid and slasher with major soil disturbance. Hardwood regeneration is poor due to abundance of raspberry.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
68	4112 - Maple, Beech, Cherry Association	Sawtimber Well	42.0	92	111-140	N/A	Medium quality hardwood stand. Large component of black cherry and balsam fir throughout the stand. Cherry has severe black knot and poor form. There are nice SM poles throughout the stand, there are also frequent overmature individuals throughout.																																																		
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69	4110 - Sugar Maple Association	Sawtimber Well	35.8	95	81-110	N/A	Upland hardwood stand that is situated on a narrow steep ridge.																																																		
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70	4112 - Maple, Beech, Cherry Association	Poletimber Poor	47.5	41	1-50	N/A	Pole sized diameter hardwood with aspen in association overtopping aspen, cherry and maple regen. Some areas fully stocked aspen while other areas moderate hardwood regen. Pockets of raspberry and elderberry. Cut in 2014 - Final Harvest Mix (420271301). Left one aspen per 5 acres. Only cut aspen, balsam and spruce.																																																		
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71	4110 - Sugar Maple Association	Sawtimber Well	33.3	95	81-110	N/A	Similar composition to adjacent hardwood stands. Luce county lease land.																																																		
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73	4130 - Aspen	Sapling Medium	2.2	4	Immature	N/A	Stand regenerating to aspen, now 5 - 10ft tall. Stocking levels moderate to fully stocked. Stand was harvested via clearcut as sale #42-012-14-01. Closed 06/27/2017																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
74	4110 - Sugar Maple Association	Poletimber Well	14.7	55	51-80	N/A	New stand originating from 151 which was established after the MWR cut. Majority of the canopy occupied by pole sized sugar maple, and ironwood with black cherry, balsam fir and aspen. Infrequent white pine and beech.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		60	Pole	6	55			
Ironwood		7	Pole/Sapling	5				
Black Cherry		20	Pole	7				
White Pine		3	Log	10				
75	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	9.1	46	51-80	N/A	Stand was split from the adjacent aspen to the north based on canopy composition and wetness of the soil. Stand situated on intermediate ground leading to the lowlands to the south. Mixed bag stand bordered by an old skid trail on the north. Higher ground has pole and log sized aspen. Transition areas and lower portions within the site are generally small pole sized aspen dominated with cedar, red maple, paper birch and fir either co-dominant or overtopped. Occasional small pole sized birch pockets.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		20	Pole	8	46			
Paper Birch		15	Sapling/Pole	4				
Bigtooth Aspen		20	Pole/Sapling	5				
Balsam Fir		20	Pole	6				
76	4110 - Sugar Maple Association	Sawtimber Well	46.0	95	111-140	N/A	Basal area ranges roughly from 80 to 130. Lower basal area pockets intermixed. Some mortality creating canopy openings. Low amount of regeneration of maple and cherry typically =10' with sparse to no seedlings. Elderberry establishment in understory in the northern and western portions of the site.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		60	Log/XLog	16	95			
Red Maple		10	Log/XLog	13				
Yellow Birch		5	Log/Pole	11				
Beech		5	Log	12				
Black Cherry		20	Log/Pole	11				
Sub-Canopy Species		Density	Avg. Height	Size				
Sugar Maple		Low	10 - 20 feet	Sapling				
Elderberry		High	5 - 10 feet	Tall Shrub				
77	4110 - Sugar Maple Association	Sawtimber Well	228.8	95	81-110	N/A	Stand similar composition to the adjacent hardwoods to the north. Portions of the stand was thinned via Luce County lease management. Luce county lease.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		60	Log/XLog	16	95			
Red Maple		10	Log/XLog	13				
Yellow Birch		5	Log/Pole	11				
Beech		5	Log	12				
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Sub-Canopy Species		Density	Avg. Height	Size				
Sugar Maple		Low	10 - 20 feet	Sapling				
Elderberry		High	5 - 10 feet	Tall Shrub				
78	4130 - Aspen	Sawtimber Well	6.0	65	111-140	N/A	Edge call. Stand split from the adjacent aspen that was harvested on Luce county lease land. Small stand is good age class diversity and can be retained.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		5	Pole	8				
Red Maple		10	Pole	8				
Quaking Aspen		65	Log/Pole	11	65			
Black Cherry		10	Pole/Log	11				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
79	4130 - Aspen	Sapling Well	16.8	8	Immature	N/A	Young aspen stand with balsam fir in association. Stand was harvested in 2013. Luce county lease.

151	4110 - Sugar Maple Association	Sawtimber Well	26.1	96	111-140	N/A	Ideal diameter distribution in northern portions of stand. Several pockets of pole hard maple regeneration. Central portion of the stand canopy dominated by log sized sugar maple and cherry with basswood in association. Portion of the stand is Luce County Lease Land. Black cherry has heavy black knot. Infrequent scattered elderberry regen throughout.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	65	Log/Pole/XLog	11	96	Sugar Maple	Medium	Variable	Sapling
Red Maple	5	Log/Pole	10		Ironwood	Low	Variable	Sapling
Basswood	10	Log/Pole	12		Beech	Low	5 - 10 feet	Sapling
Black Cherry	15	Log/Pole	12		Balsam Fir	Medium	10 - 20 feet	Sapling
Ironwood	5	Pole	8					