



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42133

Entry Year 2023

Acreage: 2,836

County Luce

Management Area: Tahquamenon Basin Wetlands

Revision Date: 2021-12-29

Stand Examiner: Matt Payment

Legal Description:

T45N R8W Section 13-15, 22-24

Identified Planning Goals:

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

Soil and topography:

The compartment is dominated by silt loam soil types. Millecoquins silt loam, Rudyard silt loam, Pickford silt loam, Ontonagon-Pickford, Sporley silt loam, and Rudyard-Pickford silt loam. These "heavy" soils support northern hardwoods, and aspen cover types. Lowland cover types such as mixed lowland conifers, cedar, lowland/swamp hardwoods, lowland white pine with hemlock, etc are found on Carbondale, Lupton and Tawas mucks, Gogomain muck, and Dawson, Greenwood and Loxley Peats. The terrain throughout the compartment is level to slightly rolling.

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

The compartment is entirely State owned. The compartment is bordered to the north, west and south by State land. Adjacent to the east are two large non industrial private land owners. Development around the area is low. One permanent residence lies adjacent to the compartment along M-28. There are a few small camps within the vicinity of the compartment which are primarily used during hunting season. The main types of land use of the area are hunting snowmobile and ORV riding and timber production. The Toonerville Trolley is located north of the compartment.

Unique Natural Features:

MNFI lists the potential for rare plants of rich mesic forests: assiniboia sedge, showy orchis, ginseng, and goblin fern. Slight potential for marsh plants including sweet coltsfoot, Wiegand's sedge, northern prostrate clubmoss, fir clubmoss, English sundew, black crowberry, American shoregrass, moor rush, paniced screw-stem, Hill's pondweed, alga pondweed, alternate-leaved water-milfoil, and autumnal water star-wort. Potential for satiny willow along streams. Potential for red-shouldered hawk, eagle, osprey, and great blue heron rookery. Potential for wood turtle in creeks. Potential for Blanding's turtle. Potential for incurvate emerald, frigga fritillary, freija fritillary and ebony boghaunter in bog habitat.

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

The compartment lies within the Sage River Deeryard and is designated as a Special Conservation Area (SCA). Management decisions shall be dictated by the promotion and enhancement of the desired characteristics associated with the winter yarding habitat. Conifer canopies should remain undisturbed. Harvesting in these areas will likely take place during winter months.

Watershed and Fisheries Considerations:

This compartment contains small unnamed cold streams draining to the East Branch Sage River. These streams are good for forage species movement during spawning. Any treatments near the riparian zones for these waterbodies should buffer 100 ft plus 5 ft per 1% increase in slope. In stands along the tributaries where Aspen is a major component, a 300 ft buffer should be implemented to discourage beaver activity.

Wildlife Habitat Considerations:

Compartment 133 lies in southeastern Luce county in the Seney Sand Lake Plain ecological sub-subsection and is in the Tahquamenon Basin Wetlands Management Area with white-tailed deer, black bear, snowshoe hare and gray jay as featured species. The compartment lies within the Sage River Deer yard which supports high numbers of deer during

stressful winter periods. Numerous streams and drainages exist in the compartment and are important wildlife travel corridors. The northern portion of the compartment is dominated by northern hardwoods and aspen types while the more southern portions are primarily lowland types, both coniferous and deciduous. The Kneeland- Bigelow road is not drivable and serves as an important wildlife travel corridor.

Wildlife objectives will be achieved by harvests being timed to occur during winter months to benefit wintering deer (featured species). In addition, hemlock and cedar will be retained in harvested stands to provide crucial cover for wintering deer and black bear (featured species) refuge trees. Selection harvests in hardwood will retain a portion of scattered aspen to serve as food sources for ruffed grouse (featured species), future den and nest trees for marten (featured species) and flying squirrels and cavity nesting species such as woodpeckers, flycatchers, chickadees and saw-whet owls. Retained conifer in northern hardwoods will act as seed sources for birds and mammals, resting trees for fisher and marten as well as structural diversity for many species including deer and bobcat.

Mineral Resource and Development Concerns and/or Restrictions

Sections 13-15 & 22-24, T45N-R8W, Luce County

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The nearest active sand/gravel pit is two miles to the northeast. There may be some limited potential for sand & gravel within the compartment on the uplands. No current mineral leasing activity exists in the area.

Vehicle Access:

: This compartment is located approximately 14 miles east of Newberry. Highway M-28 borders the compartment on the north. The Kneeland Bigelow Road runs north/south through the compartment. Vehicle travel on this seasonal road is dictated by weather conditions. A few other two track roads access the compartment from M-28 but only extend a short distance south. There are several abandoned/closed roads throughout the compartment from previous timber sale activity.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no established recreational facilities within the compartment. Recreational opportunities would be primarily hunting as well as bird watching.

Fire Protection:

The potential for large fire growth in this compartment is low because of the lowland of conifer and hardwood cover types. Much of the compartment is inaccessible with heavy equipment because of the heavier soils and soft ground. Most fires should be low intensity surface fires with slow rates of spread and may require modified suppression tactics.

Additional Compartment Information:

The following reports from the Inventory are attached:

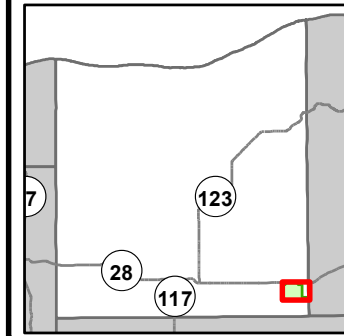
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

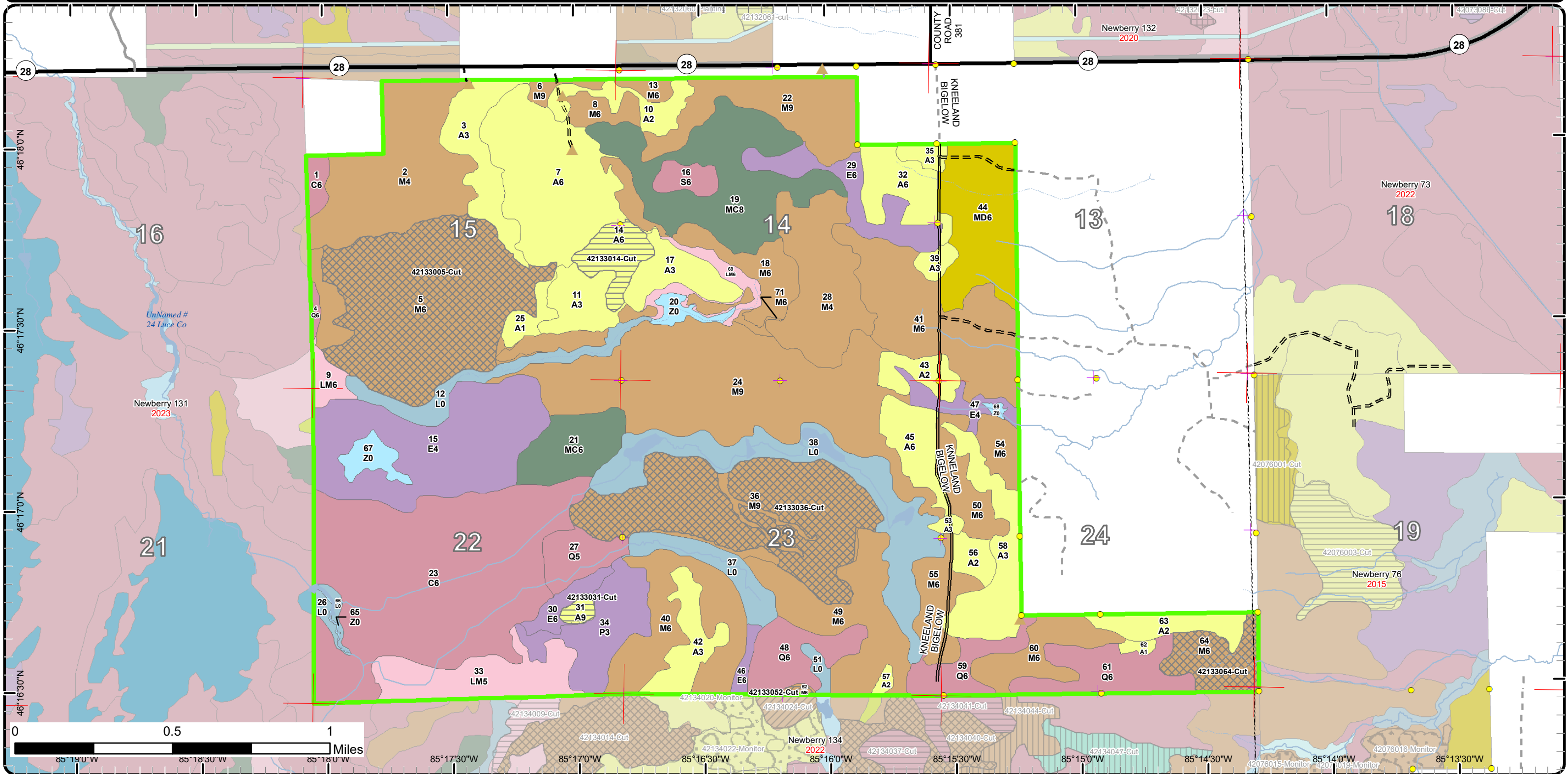
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 133
 T45N, R08W, Sec. 13-15, 22-24
 County: Luce
 Unit: Newberry
 Mgmt Area: Tahquamenon Basin
 Wetlands
 YOE: 2023
 Acres: 2836.3 GIS Calculated
 Examiner: Matt Payment
 Map Revised: 12/29/2021
 Map Phase: Post-Review

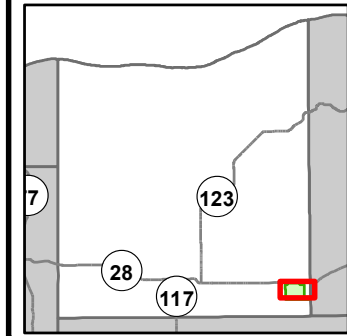


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 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

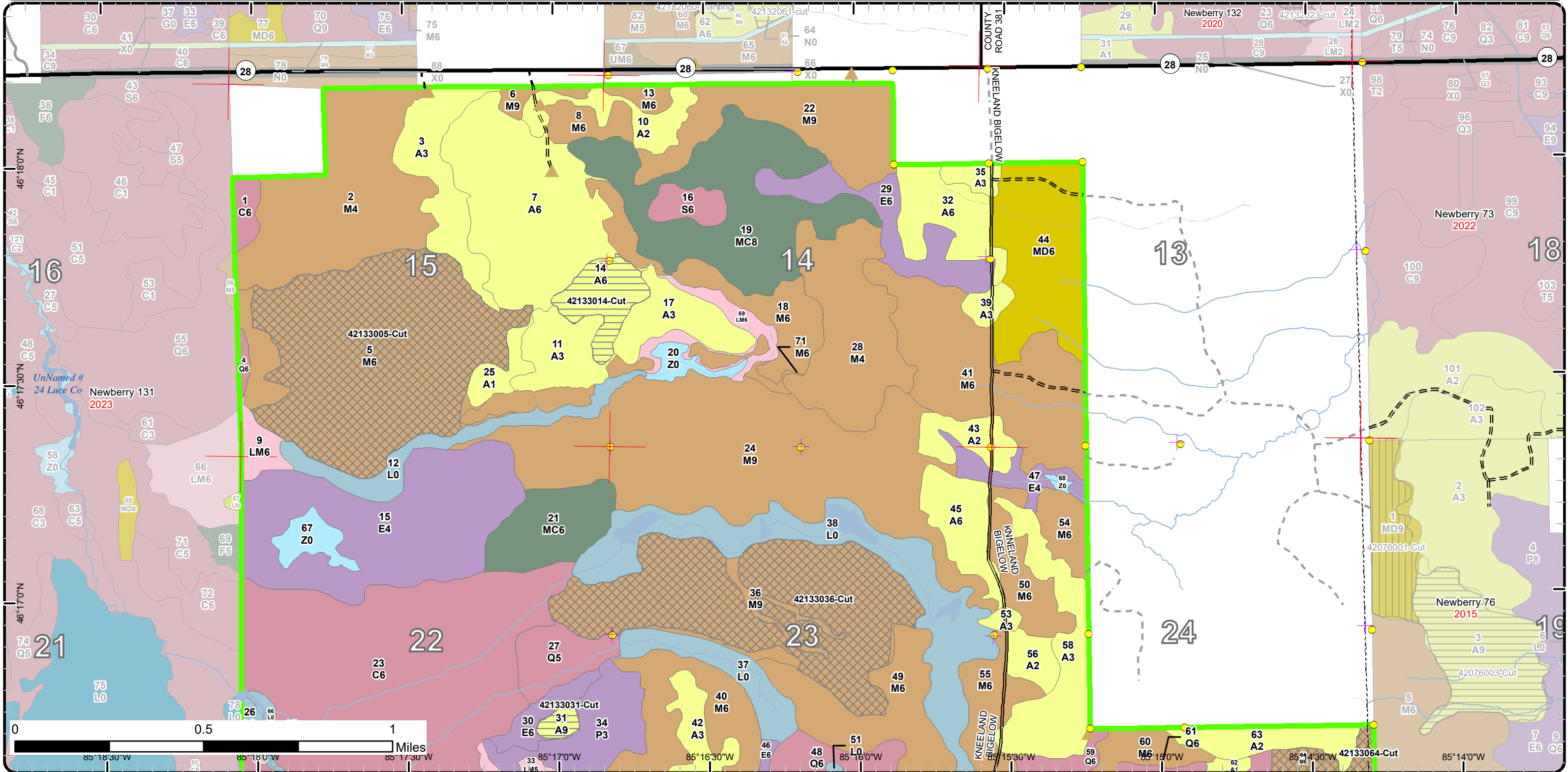


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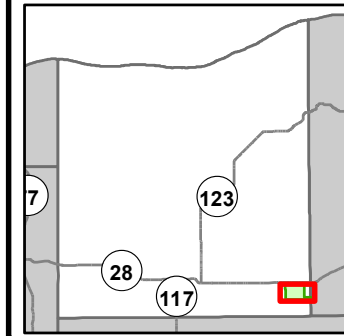


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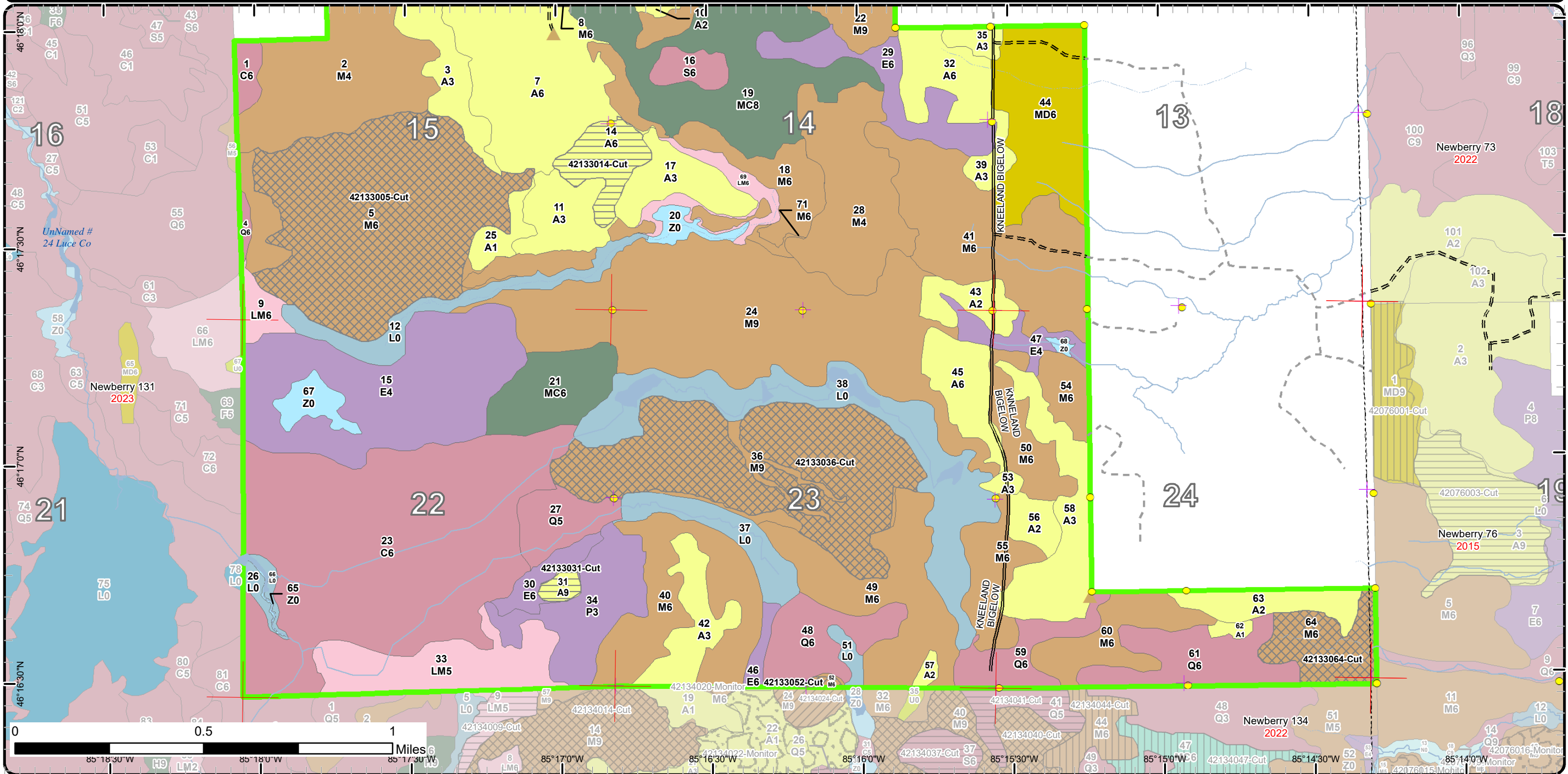


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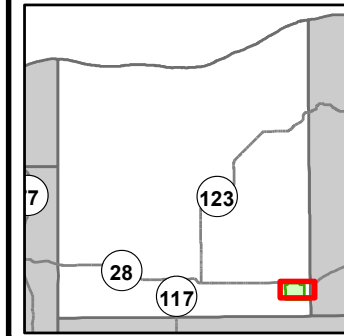


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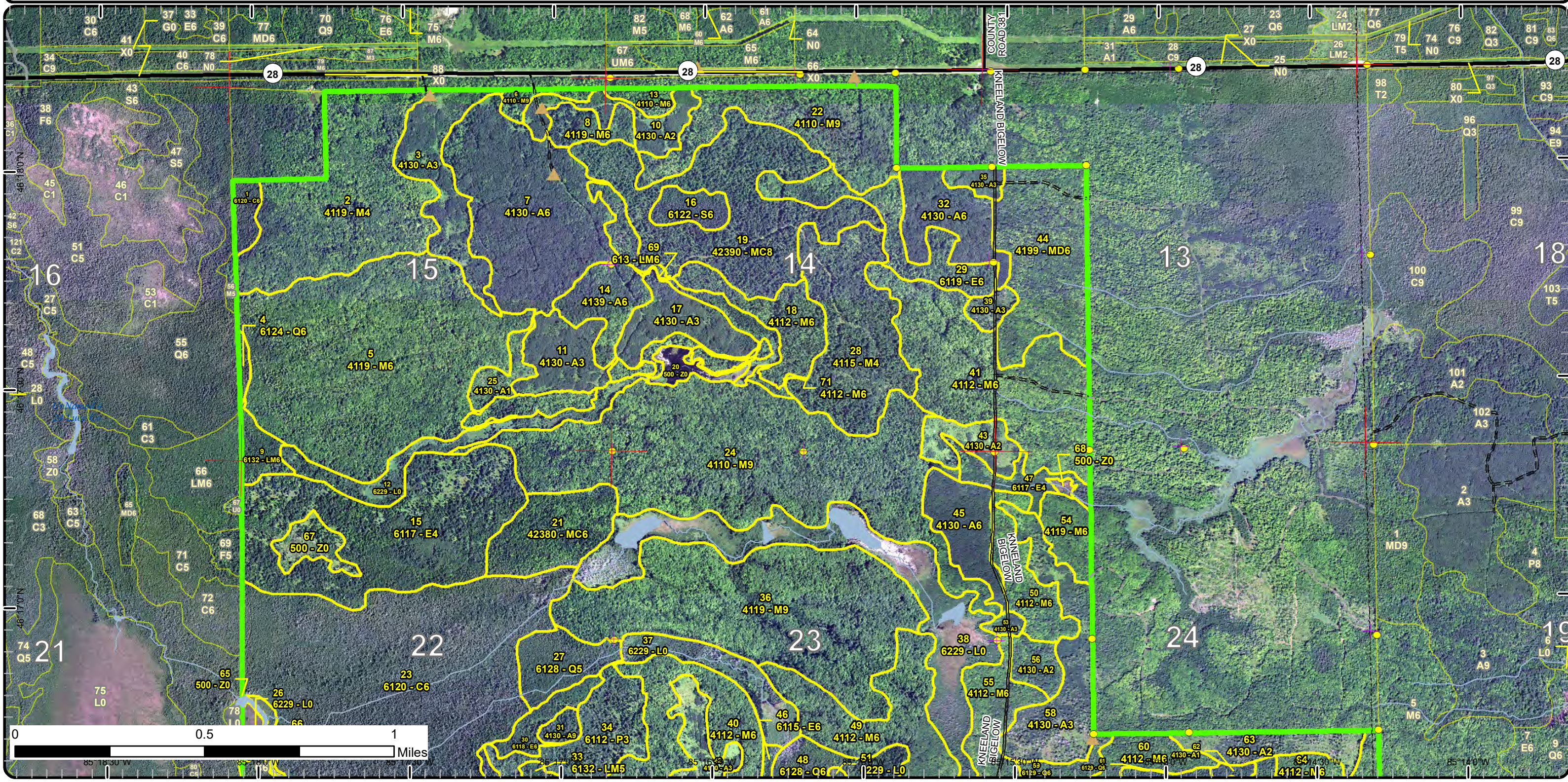


Stand Boundary Map

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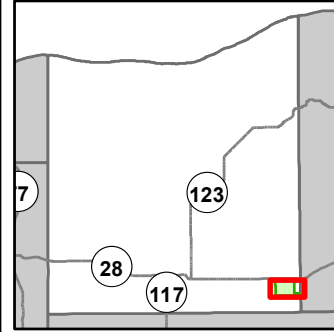


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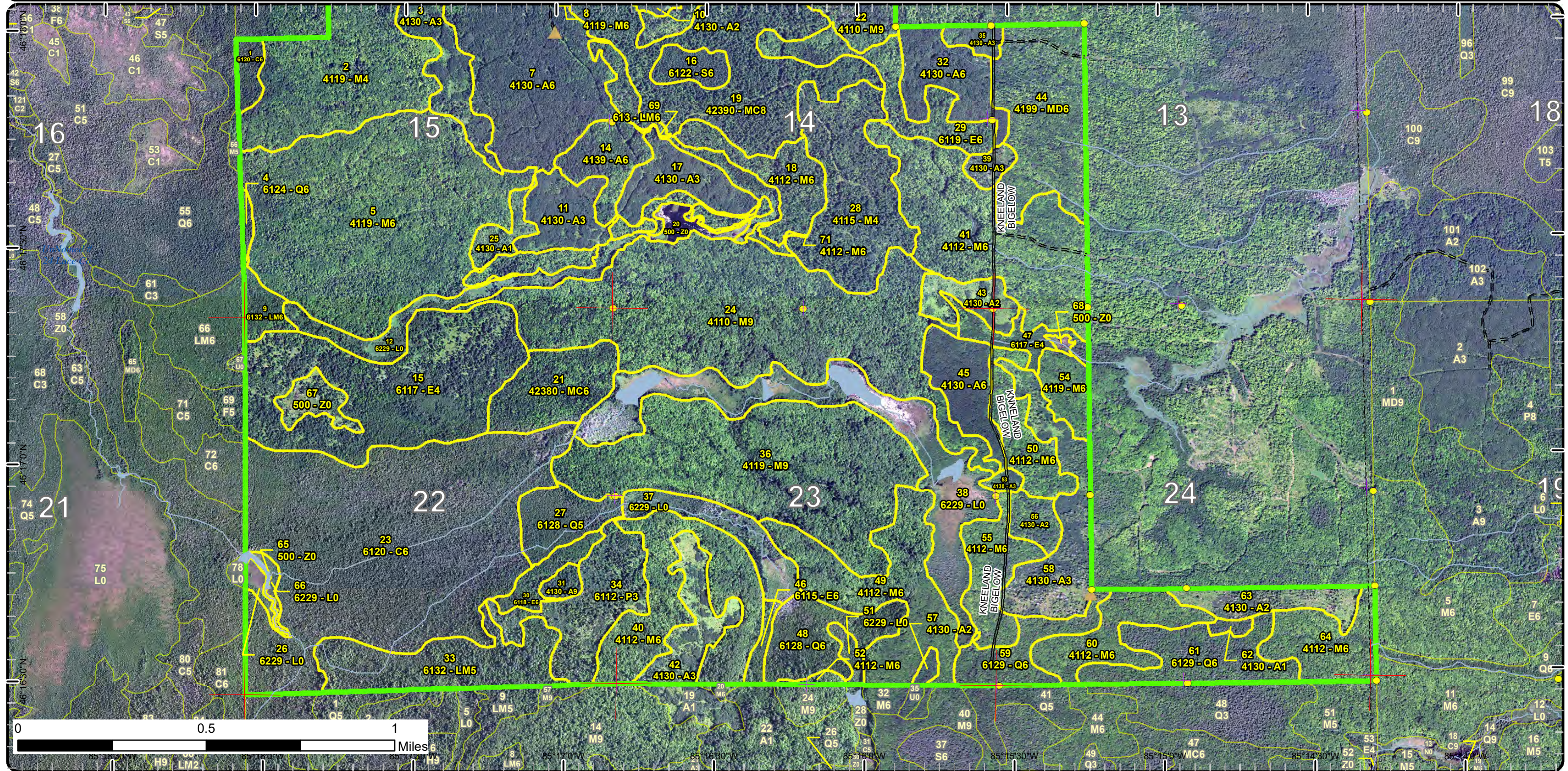
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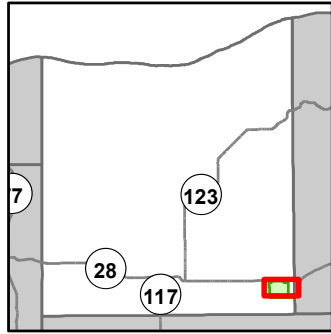
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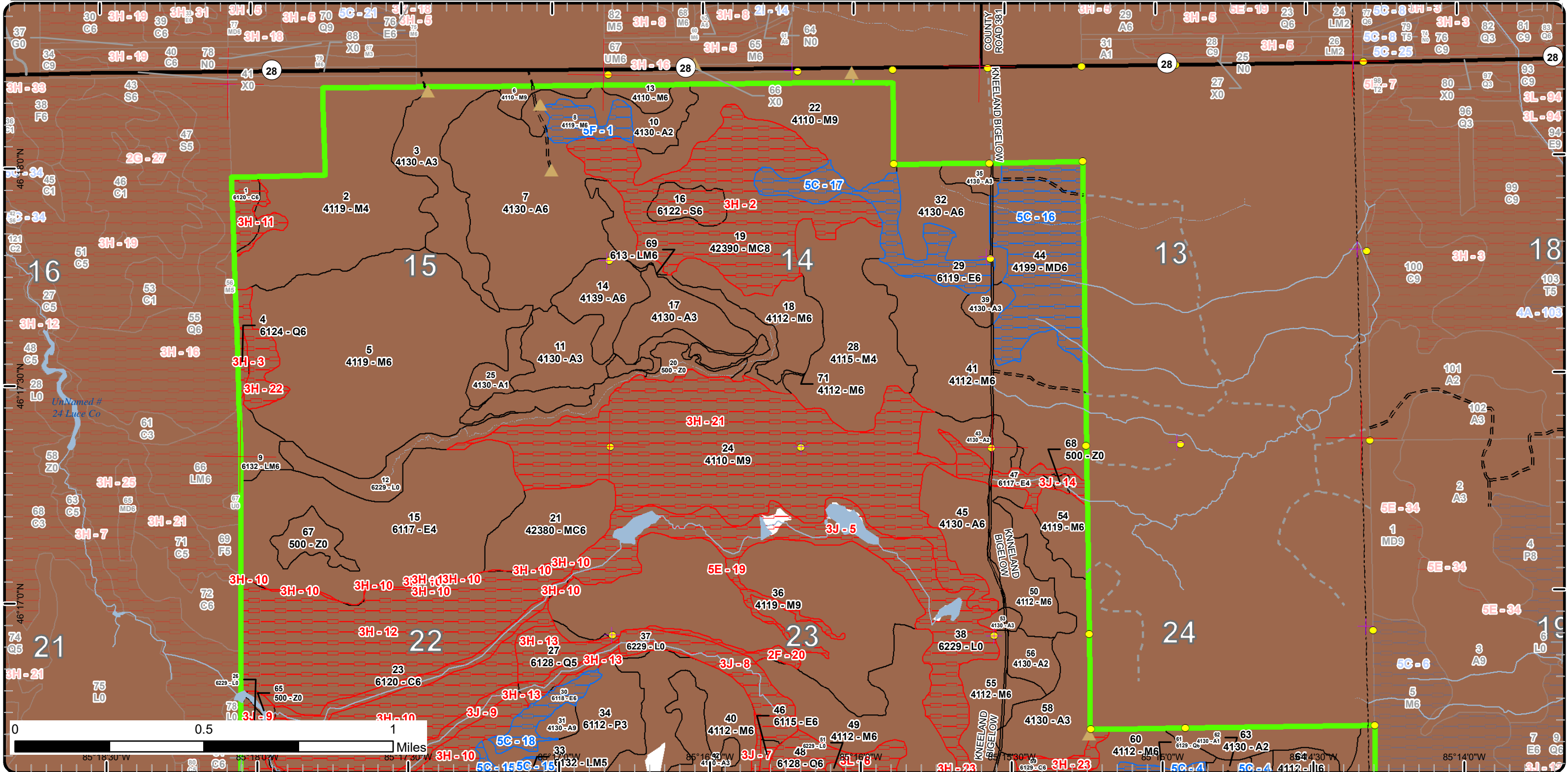


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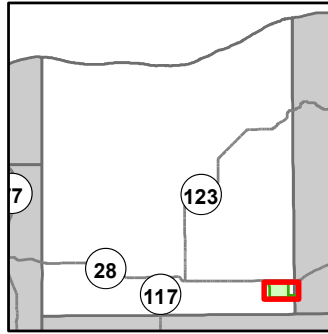


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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range

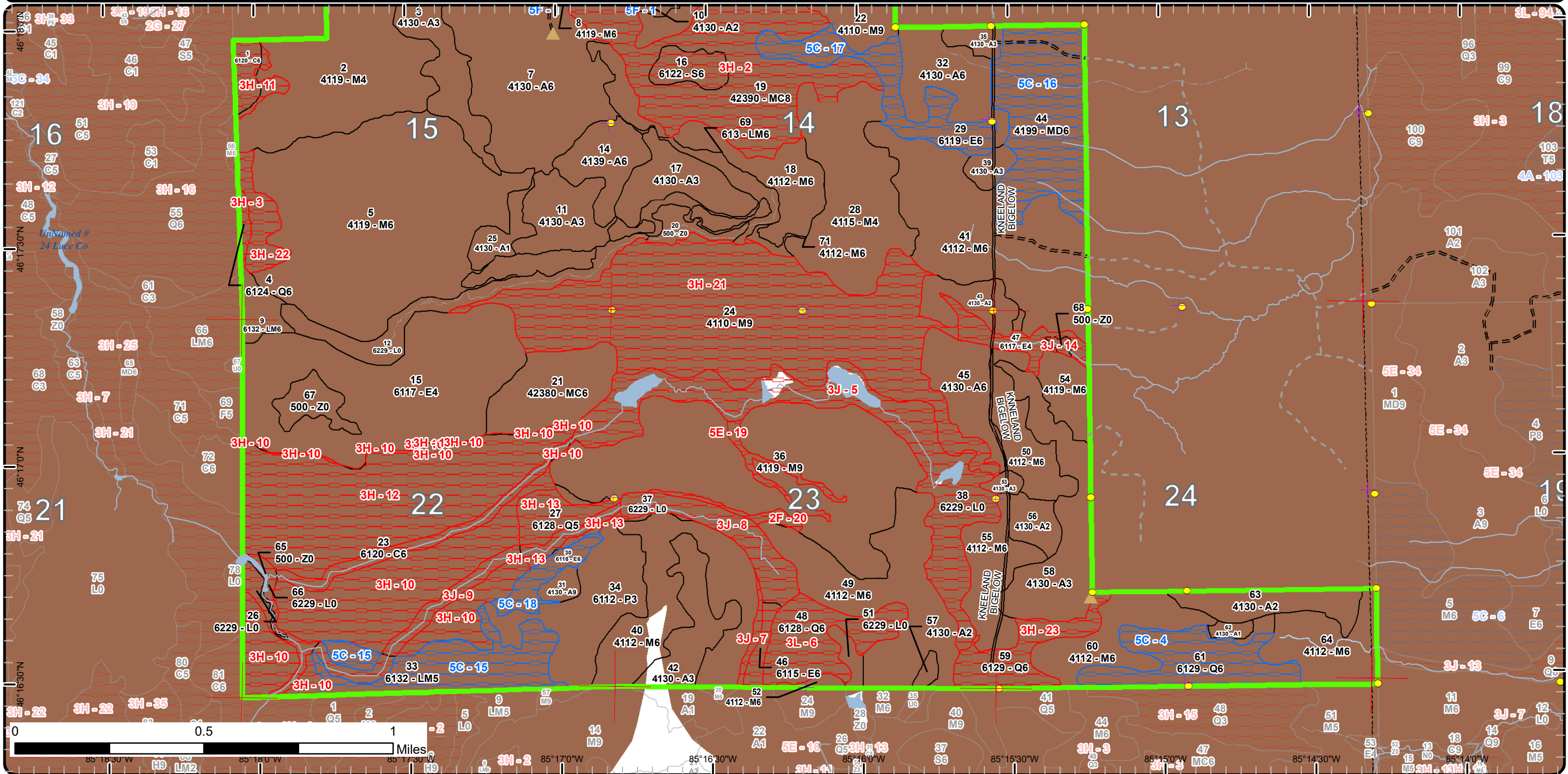


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- Cold Water Lakes
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



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	16	252	0	160	0	23	0	0	5	0	0	0	0	0	0	0	0	456
Cedar	0	0	0	0	0	0	0	0	0	0	0	266	0	0	0	0	0	0	266
Lowland Aspen/Balsam Poplar	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Conifers	0	0	0	0	0	0	0	0	0	66	3	56	0	0	0	0	0	0	125
Lowland Deciduous	0	0	0	0	0	0	126	0	14	34	0	17	0	0	0	0	0	0	191
Lowland Mixed Forest	0	0	0	0	0	0	0	15	0	63	0	0	0	0	0	0	0	0	78
Lowland Shrub	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
Lowland Spruce/Fir	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	71
Northern Hardwood	0	0	0	0	0	0	0	0	0	155	1112	0	0	0	0	0	0	0	1267
Upland Conifers	0	0	0	0	0	37	0	0	0	107	0	0	0	0	0	0	0	0	144
Water	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Total	180	16	299	0	160	37	149	26	14	501	1115	339	0	0	0	0	0	0	2835



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2023

Compartment 133
Total Compartment Acres: 2,836

Acres of Harvest

Commercial Harvest - 392
 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	28	0	0	0	0	0	0	0	0	28
Northern Hardwood	0	362	0	0	0	2	0	0	0	365
Total	28	362	0	0	0	2	0	0	0	393

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	393	0	0	0	0	0	0	0	0	393
Next Step	0	0	0	0	0	0	385	0	0	385
Total	393	0	0	0	0	0	385	0	0	778



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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:

5	42133005-Cut	181.1	4119 - Mixed Northern Hardwoods	Poletimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection harvest - Mark 70-90BA in the hardwoods. Remove all the spruce, balsam fir, and aspen. Winter cut.</p> <p><u>Specs:</u> Leave all hemlock, cedar, and white pine.</p> <p>Stand fall in the Hulbert-Sage DWC. Leave all cedar on the landscape, and where cedar density precludes cutting of other species, leave as a retention pocket. Also leave all sub-merchantable pockets of balsam fir.</p> <p>Stand acres may be reduced after prep due to drainages and lower ground on the western edge.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed 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 /2022</p>											
14	42133014-Cut	23.0	4139 - Aspen, Mixed Deciduous	Poletimber Well	56	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention. Stand part of DWC and was identified to be cut.</p> <p><u>Specs:</u> Leave all cedar on the landscape, and where cedar density precludes cutting of other species, leave as a retention pocket. Also leave all sub-merchantable pockets of balsam fir.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen.</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>											
31	42133031-Cut	4.8	4130 - Aspen	Sawtimber Well	88	111-140	Harvest	Clearcut	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. Clearcut with no reserves. Small acreage, no retention needed. Plenty of retention left in adjacent harvest. Access via old road from adjacent harvest. Winter cut due to soil types.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments: Monitor for success of aspen regeneration.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</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
36 42133036-Cut	149.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection Harvest by thinning stand 70-90BA.</p> <p><u>Specs:</u> Leave all white pine, cedar, and hemlock within the stand. Winter Cut.</p> <p>Stand fall in the Hulbert-Sage DWC. Leave all cedar on the landscape, and where cedar density precludes cutting of other species, leave as a retention pocket. Also leave all sub-merchantable pockets of balsam fir.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed 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 /2022</p>										
52 42133052-Cut	2.3	4112 - Maple, Beech, Cherry Association	Poletimber Well	93	111-140	Harvest	Crown Thinning	4112 - Maple, Beech, Cherry Association	Even-Aged	No
<p><u>Prescription</u> Thin stand. Selection harvest. Residual BA of 60-80. Mark aspen to cut. Leave cedar. Mark spruce to cut. Lower quality areas, residual BA of 60-70. Higher quality areas, residual BA of 70-80. Winter harvest due to soil conditions. Access will be through adjacent compartment to the south. Possible out of year of entry harvest. Set up as sale with treatments to the south. Stand should be set up as part of 2012 POW.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments: Monitor for success of desirable regeneration of maple with basswood, aspen and conifers.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
64 42133064-Cut	31.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	93	111-140	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription</u> Selection Harvest by thinning stand 70-90BA. Remove all balsam fir, spruce, and any aspen if present.</p> <p><u>Specs:</u> Leave all white pine, cedar, and hemlock within the stand. Winter Cut</p> <p>If intermittent stream is found within the stand buffer accordingly 100' following BMP guidelines.</p> <p>Stand fall in the Hulbert-Sage DWC. Leave all cedar on the landscape, and where cedar density precludes cutting of other species, leave as a retention pocket. Also leave all sub-merchantable pockets of balsam fir.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwoods with a mixed conifer component.</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 /2027</p>										

Total Treatment 392.5
Acres Proposed:

Report 4 – Site Conditions

Newberry Mgt. Unit
Matt Payment : Examiner

Compartment: 133
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres <i>Acres Avail</i> With Condition	Acres Not Available
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Dominant Site Conditions

	Total Acres	Acres Available	<i>Acres Avail</i> With Condition	Acres Not Available	Dominant Site Conditions							
					5C	5F	2F	3H	3J	3L	5E	
456	456	0	0	Aspen								
266	0	0	265	Cedar				238	28			
47	47	0	0	Lowland Aspen/Balsam Poplar								
125	4	39	82	Lowland Conifers	39			43	5	33		
192	127	46	19	Lowland Deciduous	46			0	19	0		
78	25	48	5	Lowland Mixed Forest	48				5			
158	34	0	124	Lowland Shrub					124	0		
11	0	0	11	Lowland Spruce/Fir				11				
71	0	71	0	Mixed Upland Deciduous	71							
1267	1012	13	242	Northern Hardwood	1	12	4	228	3			7
144	37	0	107	Upland Conifers				107				
22	19	0	3	Water					3			
2,836	1,760	217	859	Total Forested Acres	205	12	4	628	187	33		7
	62%	8%	30%	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	5F: Evaluated for Forest Health Considerations	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Evaluated for SBW.							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	118	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard on purchased lands. High component of conifer and cedar in the stands.							

Report 4 – Site Conditions

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3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard on purchased lands.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	93	Unspecified	Unspecified	Unspecified	Unspecified
Comments: RMZ on unnamed creek.							
6	Unavailable	3L: Other wildlife concerns	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: RMZ on unnamed creek.							

Report 4 – Site Conditions

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 Year of Entry: 2023

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments: RMZ on unnamed creek.							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	106	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	125	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard on purchased lands. Stands of cedar or those with a high component of cedar and/or conifer species.							
13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
 Matt Payment : Examiner

Compartment: 133
 Year of Entry: 2023

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retain for 10 years.							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lower cedar, spruce drain within the hardwoods. Left as retention.							
20	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ridge							

Report 4 – Site Conditions

Newberry Mgt. Unit
 Matt Payment : Examiner

Compartment: 133
 Year of Entry: 2023

21	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	212	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Acres held due to moving treatments from C131 and C71 to C133 and treating. Possibly harvest in 2033 YOE.							
22	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
1	6120 - Lowland Cedar	Poletimber Well	7.7	105	111-140	N/A	Cedar with black ash and paper birch, stand is considerably wet.																																																							
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2	4119 - Mixed Northern Hardwoods	Poletimber Poor	106.3	90	51-80	N/A	Stand was cut as part of ASH OVERHAUL.																																																							
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3	4130 - Aspen	Sapling Well	38.7	16	Immature	N/A	Young aspen, cut as sale #044-03-01. Complete in 2005. Some areas still with sparse regeneration. Scattered residual overstory of white pine and hemlock.																																																							
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4	6124 - Lowland Spruce-Fir	Poletimber Well	2.8	98	111-140	N/A	Lowland coniferous stand. Bleed over from the compartment to the west.																																																							
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5	4119 - Mixed Northern Hardwoods	Poletimber Well	195.9	90	111-140	N/A	Mixed hardwoods stand, some hemlock and conifer species scattered through the stand. Small drains run through the stand with rolling topography as well.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
6	4110 - Sugar Maple Association	Sawtimber Well	5.8	88	51-80	N/A	Stand was thinned by selection cut in 2005 as sale #44-03-01. Narrow stand of hardwoods along M-28 ROW. Mainly sugar maple and beech.																																																																	
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7	4130 - Aspen	Poletimber Well	101.8	35	81-110	N/A	Young aspen. Transitioning from a sapling stand to a pole stand. Beech is dying out. Trace of hemlock. Lower areas.																																																																	
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8	4119 - Mixed Northern Hardwoods	Poletimber Well	12.5	80	81-110	N/A	Small hardwood stand with mixed spruce and fir.																																																																	
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9	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	10.0	85	81-110	N/A	Mirror stand of C-131 stand 66. Low wet ground running into L0 stand 12 to the east.																																																																	
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11	4130 - Aspen	Sapling Well	25.2	16	Immature	N/A	Stand was cut in 2005 as sale #44-03-01. Aspen stand coming in nicely with some balsam and mixed deciduous species.																																																								
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13	4110 - Sugar Maple Association	Poletimber Well	6.1	88	51-80	N/A	Stand thinned via selection harvest in 2005 as sale #44-03-01. Narrow stand of hardwoods along M-28 ROW.																																																								
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14	4139 - Aspen, Mixed Deciduous	Poletimber Well	23.0	56	51-80	N/A	Aspen and mixed hardwood comprise this stand. Access from the north. Stand was selected as a DWC stand to harvest this entry along with stand 59.																																																								
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15	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	125.9	51	81-110	N/A	Very limited access. Scattered stand of spruce, balsam, hardwoods. Red maple and black ash saplings. Old records show sale #27-70. Stand has some flooding taking place.																																																								



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16	6122 - Black Spruce	Poletimber Well	11.3	60	1-50	N/A	Black spruce and cedar stand, wet throughout the stand.																																																							
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18	4112 - Maple, Beech, Cherry Association	Poletimber Well	55.6	93	81-110	N/A	Stand was cut in 2015-16 via single tree selection: The good and the bad #42-008-13. Southern portion of the stand is more hard maple with red maple and yellow birch. Higher component of red maple in the northern portions of the stand. Large aspen throughout.																																																							
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19	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	107.1	80	111-140	N/A	Stand cut via shelterwood harvest in 2005 as sale #44-03-01. All species removed except white pine, hemlock, cedar and small spruce. Some maple left as residual. Good regeneration throughout, mix of species. Mostly aspen and red maple. Some smaller white pine regen coming in as well.																																																							
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21	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	37.3	45	81-110	N/A	Stand regenerating from harvest as sale #27-70.																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
22	4110 - Sugar Maple Association	Sawtimber Well	64.6	94	81-110	N/A	Stand harvested via Single Tree Selection: The Good and the Bad #42-008-13.																																																							
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23	6120 - Lowland Cedar	Poletimber Well	257.8	105	141-170	N/A	Lowland stand, access very difficult. Mainly white cedar and some spruce, ash, and birch. Stand had a lot of water throughout.																																																							
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24	4110 - Sugar Maple Association	Sawtimber Well	211.6	96	111-140	N/A	Primarily sugar maple. Fair amount of large diameter maple, but most of the maple is in the 8-10 inch diameter classes. Lots of basswood. Access could be questionable to this stand. Drainages throughout. Stand is ready for a thinning. Part of the DWC.																																																							
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25	4130 - Aspen	Sapling Poor	10.1	16	Immature	N/A	Stand open grown aspen patch in place some slash from previous logging. Stump sprout maple, balsam fir, ash, and some wet areas as well.																																																							
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26	6229 - Mixed lowland shrub	Nonstocked	3.7		Unspecified	No																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 22.6 100 111-140 N/A Lowland stand. Wet throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Black Spruce	30	Pole	7		Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar	45	Pole	8	100	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	15	Pole/Sapling	6					

28 4115 - Y.Birch, Hemlock NH Poletimber Poor 73.2 90 51-80 N/A Stand harvested as a shelterwood as sale #44-03-01, in 2005. Good regeneration of hard maple, red maple, aspen cherry and white ash. Slight amount of white pine regeneration as well. Fair amount of blowdown within the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	40	Pole/Log	9	90	Sugar Maple	High	10 - 20 feet	Sapling
Red Maple	20	Pole	8		Red Maple	High	10 - 20 feet	Sapling
Yellow Birch	5	Pole	9		White Ash	Medium	10 - 20 feet	Sapling
White Pine	10	Log	14		Black Cherry	Medium	10 - 20 feet	Sapling
Hemlock	25	Log/Pole	12		Aspen (spp.)	High	10 - 20 feet	Sapling

29 6119 - Mixed Lowland Deciduous Forest Poletimber Well 34.4 86 81-110 N/A Small diameter maple and black ash. Component of balsam and spruce. Hemlock and yellow birch. Lower ground, wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	20	Pole	8		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	25	Pole	7		Balsam Fir	Medium	Variable	Sapling
Yellow Birch	2	Pole	9		Black Ash	Low	5 - 10 feet	Sapling
Balsam Fir	3	Pole	8					
Hemlock	10	Pole/Log	10					
Black Ash	40	Pole	7	86				

30 6118 - Lowland Deciduous with Cedar Poletimber Well 11.9 105 81-110 N/A Long narrow stand transitioning into low ground cedar and mixed conifers. Access difficult from SE through stand 31, which has not been cut as part of the sale Long Ride Hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	25	Pole	8		Balsam Fir	High	Variable	Sapling
Northern White Cedar	35	Pole	9		Black Ash	Medium	Variable	Sapling
Black Ash	40	Pole	7	105				

31 4130 - Aspen Sawtimber Well 4.8 88 111-140 N/A Part of Long Ride Hardwoods sale, unit may not get cut with sale, Sale is still open wet access road with clay ground from the SE.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	8		Red Maple	Medium	Variable	Sapling
Paper Birch	5	Pole	9		Paper Birch	Low	10 - 20 feet	Sapling
Quaking Aspen	68	Log/Pole	12	88	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	2	Pole	8		Tag Alder	Low	< 5 feet	Tall Shrub
Northern White Cedar	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
32	4130 - Aspen	Poletimber Well	31.9	37	Unspecified	N/A	Young aspen stand, transitioning from a sapling to pole size stand. Thick in many spots. Components of red maple, balsam, basswood, spruce, elm, ash.																																																								
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33	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	53.4	86	111-140	N/A	Low wet ground with a large drain running through the stand. Access would be very difficult.																																																								
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34	6112 - Lowland Aspen	Sapling Well	46.5	12	51-80	N/A	Stand cut as sale #045-03-01, finished in 2012. Final harvest with residual overstory of hemlock, white pine, cedar and yellow birch. Good aspen and red maple regeneration. Some wetter areas with less regeneration yet.																																																								
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36	4119 - Mixed Northern Hardwoods	Sawtimber Well	161.0	93	111-140	N/A	Decent quality to the hard maple in the stand. Fingers of balsam and spruce through the middle of the stand.																																																				
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37	6229 - Mixed lowland shrub	Nonstocked	25.2		Unspecified	No	Creek corridor with tag alder. Series of beaver ponds.																																																				
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39	4130 - Aspen	Sapling Well	6.5	12	Immature	N/A	Stand was cut in 2009 as sale #043-03-01. Small clearcut with residual hemlock yellow birch and elm overstory. Regeneration of stand is patchy due to overstory and lower areas.																																																				
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40	4112 - Maple, Beech, Cherry Association	Poletimber Well	67.2	93	51-80	N/A	Stand cut as part of Long Ride Hardwoods, East finger cut 2015. The west finger the southern half was cut 2015 but the northern portion was never cut due to volumes and water in the stand. Hardwood stand of hard maple with red maple, basswood, large diameter aspen, occasional spruce and cedar. East/west drainages/low areas within the stand with lower basal area. patchy balsam understory. Southeast corner of the stand is very nice maple.																																																				
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41	4112 - Maple, Beech, Cherry Association	Poletimber Well	97.9	88	51-80	N/A	Hard maple with basswood and red maple. Good site. Decent quality. Areas of lower quality and lower basal area. Drainages and associated slopes within the stand. Scattered hemlock. Component of aspen. Lots of maple 3 inch dbh and 30 ft tall. Smaller diameters in spots. 11/2019: Select cut in spring 2019 as part of Muddy Tires Hardwoods, #018-13.																																																													
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42	4130 - Aspen	Sapling Well	27.1	12	Immature	N/A	Stand cut as sale #45-03-01. Done in 2010. Stand was chipped. Good amount of dead and down material remaining. Good thick regeneration over 10 ft tall.																																																													
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43	4130 - Aspen	Sapling Medium	16.9	12	Immature	N/A	Stand cut in 2009 as sale #043-03-01. Regeneration is coming in well, fully stocked. Aspen with red maple, basswood, balsam.																																																													
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44	4199 - Other Mixed Upland Deciduous	Poletimber Well	71.0	85	111-140	N/A	Mixture of high and lower ground. Variable throughout. Higher percentage of "lower" areas in the northern portions of the stand. Low areas of black ash, elm, hemlock, red maple. Higher areas of red maple, hard maple, balsam, basswood, etc. Lower quality stand overall. Pockets of small diameter, low basal area. Stand part of the DWC and was dropped this entry and acres were moved to another Compartment in the DWC to be harvested.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45	4130 - Aspen	Poletimber Well	26.7	35	51-80	N/A	Stand cut as sale #51-84. TSI'd in 1986. Young aspen stand moving from sapling size to pole size. Nice thick stand of aspen.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Sapling/Pole	4	
Red Maple	5	Sapling/Pole	4	
Basswood	5	Sapling/Pole	4	
Quaking Aspen	80	Pole/Sapling	5	35
Balsam Fir	5	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	Variable	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling

46	6115 - Lowland Ash	Poletimber Well	5.4	105	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Yellow Birch	10	Pole	8	
Black Spruce	5	Pole	9	
Northern White Cedar	5	Pole	7	
Black Ash	75	Pole	6	105

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Black Ash	Medium	Variable	Sapling

47	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	14.0	76	51-80	N/A	Open, lowland stand with drainage through it.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole	7	
Black Spruce	15	Pole	7	
White Pine	5	Pole/Log	9	
Black Ash	55	Pole	6	76

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Black Spruce	Medium	Variable	Sapling
Tag Alder	Medium	Variable	Tall Shrub

48	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	33.3	105	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Paper Birch	10	Pole	8	
Balsam Fir	10	Pole	8	
White Spruce	10	Log/Pole	11	
Black Spruce	15	Pole	7	
Northern White Cedar	45	Pole/Log	9	105
Black Ash	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
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49	4112 - Maple, Beech, Cherry Association	Poletimber Well	71.0	93	51-80	N/A	Hardwood stand of hard maple with red maple, basswood, aspen and hemlock. Patchy balsam understory. Very nice stand in many spots. Some areas of lower quality and slightly lower ground. 11/2019: harvested via selection cut in spring 2019 as part of Muddy Tires Hardwoods, #018-13.																																																				
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50	4112 - Maple, Beech, Cherry Association	Poletimber Well	25.5	93	81-110	N/A	Decent hardwood stand with good understory coming in. Basal area is still a little low but next entry should be looked at for a harvest. Easy access along west side of the stand.																																																				
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51	6229 - Mixed lowland shrub	Nonstocked	4.6		Unspecified	No																																																					
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52	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.6	93	111-140	N/A	2021 - Stand still under contract and yet to be cut. Hardwood stand of hard maple with red maple, basswood, large diameter aspen, occasional spruce and cedar. East/west drainages/low areas within the stand with lower basal area. patchy balsam understory. Southeast corner of the stand is very nice maple.																																																				
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54	4119 - Mixed Northern Hardwoods	Poletimber Well	15.0	93	81-110	N/A	Lower quality stand with some wet areas throughout. Private to the east.																																											
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55	4112 - Maple, Beech, Cherry Association	Poletimber Well	28.5	93	51-80	N/A	Hard maple stand. Medium quality. Component of spruce and yellow birch, hemlock. Beech is dying out of stand. Good site. Wild leeks as ground cover.																																											
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56	4130 - Aspen	Sapling Medium	10.7	2	Immature	N/A	11/2019: clearcut in spring 2019 as part of Muddy Tires Hardwood, #018-13.																																											
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58	4130 - Aspen	Sapling Well	48.1	12	Immature	N/A	Stand cut in 2009 as sale #43-03-01. Young aspen regeneration with red maple. Fair amount of residual overstory, mostly in the southern half of the stand. Less quality in regeneration (sparse) in areas of residual hemlock and yellow birch. Good aspen regeneration in most areas.																																											
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60	4112 - Maple, Beech, Cherry Association	Poletimber Well	32.5	88	81-110	N/A	Small diameter hard maple with large diameter red maple, white ash and hard maple. Pulp trees are still very small in diameter. Fair quality but some rot, seams, borer damage.																																																						
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Quaking Aspen	75	Sapling	2	12																																																									
Hemlock	5	Log/Pole	11																																																										
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Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
64	4112 - Maple, Beech, Cherry Association	Poletimber Well	31.7	93	111-140	N/A	Drainage within the stand, wet areas. Small diameters in areas, but others have decent size and quality. Possibly cut a road out from the south to connect to Kneeland rd. See reference line data for road. Part of DWC Potentially add late start date to stand and keep the treatment on.																																																			
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65	500 - Water	Nonstocked	1.4		Unspecified	No																																																				
66	6229 - Mixed lowland shrub	Nonstocked	2.9		Unspecified	No																																																				
67	500 - Water	Nonstocked	11.8	0	Unspecified	No	Flooded stand from beavers, wood is deteriorating from flooding.																																																			
68	500 - Water	Nonstocked	1.4	0	Unspecified	No	Flooding in the stand surrounding this beaver flooding.																																																			
69	613 - Lowland Mixed Forest	Poletimber Well	14.9	60	51-80	N/A	Stand delineated out during the last timber sale. Lowlands situated between upland stands.																																																			
71	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.2	93	81-110	N/A	Stand was cut in 2015-16 via single tree selection: The good and the bad #42-008-13. Southern portion of the stand is more hard maple with red maple and yellow birch. Higher component of red maple in the northern portions of the stand. Large aspen throughout.																																																			
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