



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42125

Entry Year 2020

Acreage: 2,634

County Luce

Management Area: County Line Hardwoods

Revision Date: 2018-08-17

Stand Examiner: Jason Tokar

Legal Description:

T45N R09W sections 20, 21, 28, 29, 32, 33

Identified Planning Goals:

Promote multiple aged and diversified tree species where possible to balance forest stand age classes and improve conditions for wildlife species. Retain/enhance the quality of recreational uses of the area. Provide for consistent, sustainable wood fiber production over the long term. Aspen management is a priority to ensure a healthy aspen resource in the area.

Soil and topography:

Overall level terrain with short rolling hills in the south reaches of the compartment. Kalkaska sands with loam are prevalent. Organic soils in intermittent lowland areas

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

The compartment is mainly continuous State ownership with one private inholding owned by a small private land owner. The compartment is bordering by State land on 2 sides, private land to the north and the Hiawatha Sportsman's Club to the south. Land use is high due to the upland nature of the compartment and the proximity to Newberry.

Unique Natural Features:

There are none identified.

Archeological, Historical, and Cultural Features:

There are none identified.

Special Management Designations or Considerations:

N/A

Watershed and Fisheries Considerations:

Fisheries Values: Moderate

The West Branch Sage River (including tributaries) is a designated trout stream supporting natural brook trout populations. This section of the West Branch Sage River carries an additional 5-fish bag limit for Brook Trout. Where clear-cuts in aspen stands are proposed, 300 ft buffers should be applied in order to protect from further beaver activity.

Wildlife Habitat Considerations:

Compartment 125 lies in southern Luce county and is in St Ignace ecological sub-subsection and is in the County Line Hardwoods Management Area with red-shouldered hawk, goshawk, ruffed grouse, white-tailed deer, snowshoe hare and black bear as featured species. The west branch of the Sage River runs through this compartment and is used by aquatic furbearers and other wildlife species as a travel corridor. The eastern portion of the compartment is in the Sage River deeryard and use by deer is heavy to moderate. Northern hardwoods and aspen comprise much of the area with lowland conifer types and treed bogs scattered throughout.

Diversity in vertical structure of stands and creation of nest and den sites will be enhanced by leaving some white pine, and aspen behind in aspen final harvests. Some aspen stands will create drumming logs and some aspen will be delayed creating further age class diversity to benefit ruffed grouse. Future snags will be preserved in thinned hardwood stands by retaining some large aspen and beech. In general, a conifer component is maintained in thinned hardwood stands to increase species and structural diversity. Creeks and bogs bordering harvested stands will be buffered to protect wetland and wildlife values. Moose, white-tailed deer, black bear, bobcat, snowshoe hare, gray wolves, fisher, beaver, otter, and mink will use this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Sections 20-21, 28-29, & 32-33, T45N-R9W, Luce County

Sand/gravel pits are located two miles to the northwest, and there may be some sand potential within the compartment. There is no known metallic mineral potential in this area, and there is no potential for economical production oil and gas in the UP.

Vehicle Access:

County Road 399 provides direct access to the compartment from the north. Good road access throughout. The McLeod Road is the main access route for the compartment. Pullup Lakes Road runs east and west through the southern portion of the compartment.

Survey Needs:

The following survey work/corner establishment is needed for management activities.....

East side of SWSW of Section 28 (private 40 acre parcel)

S1/2SE of Section 32 (Hiawatha Club)

S1/2SW of Section 33 (Hiawatha Club)

Recreational Facilities and Opportunities:

Recreational facilities within the compartment include the groomed snowmobile trail and the ATV trail. Other opportunities abound, ranging from hunting (deer, bear, small game) and fishing, to wildlife viewing, hiking and berry picking.

Fire Protection:

Large fire run potential will be minimal with the absence of continuous Pine fuel types. Wheeled vehicle suppression tactics may be limited in some areas because of soft ground. Private property risk surrounding compartment should be low.

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

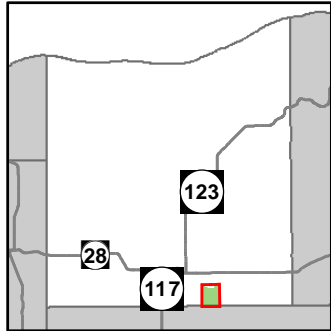
Proposed treatments

Site condition boundaries

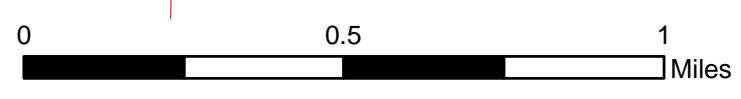
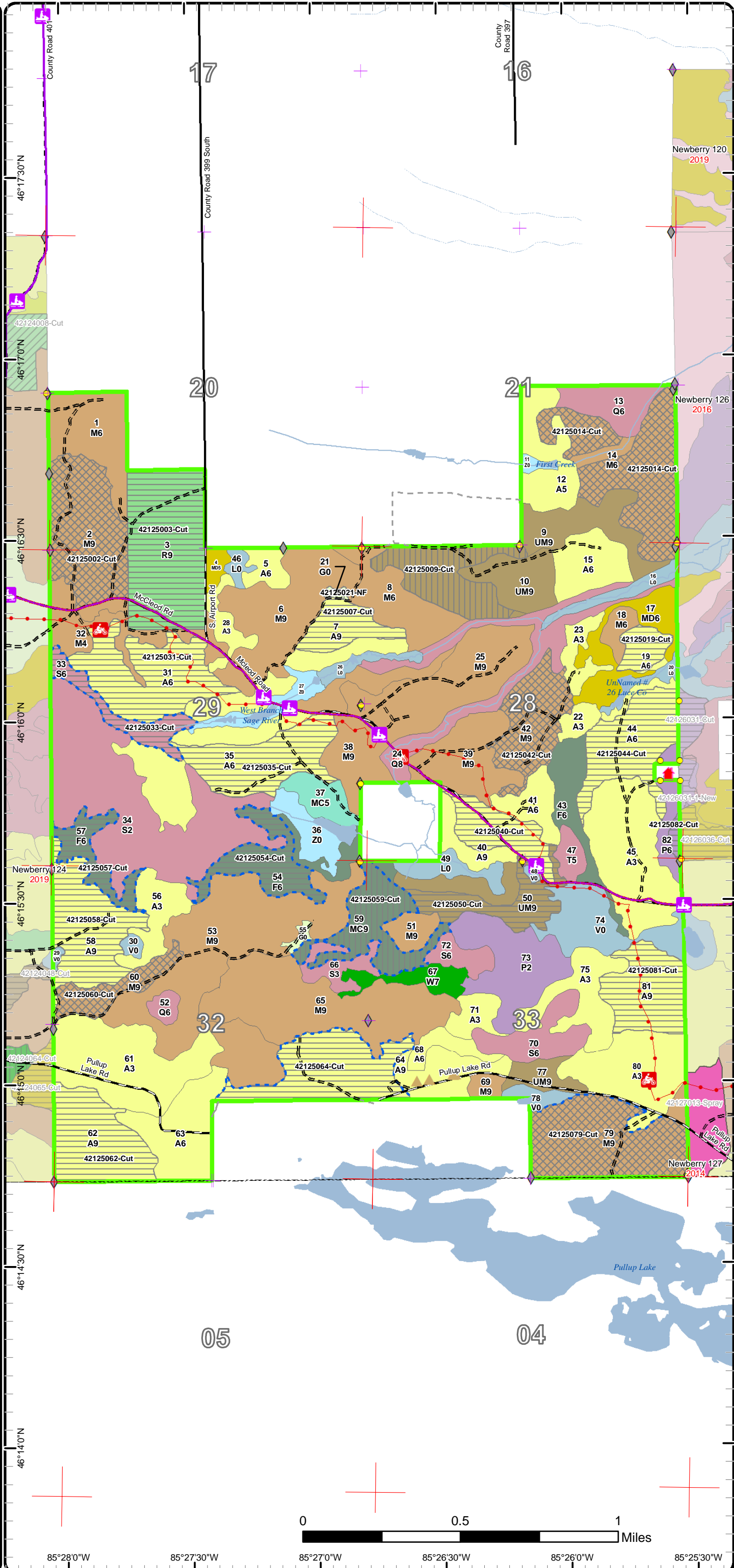
Details on the road access system

Cover Type & Treatments Map

Compartment: 125
 T45N, R09W, Sec. 20, 21, 28, 29,
 32, 33
 County: Luce
 Unit: Newberry
 Mgmt Area: County Line
 Hardwoods
 YOE: 2020
 Acres: 2,634 GIS Calculated
 Examiner: Jason Tokar
 Map Revised: 4/23/2019
 Map Phase: Post-Review



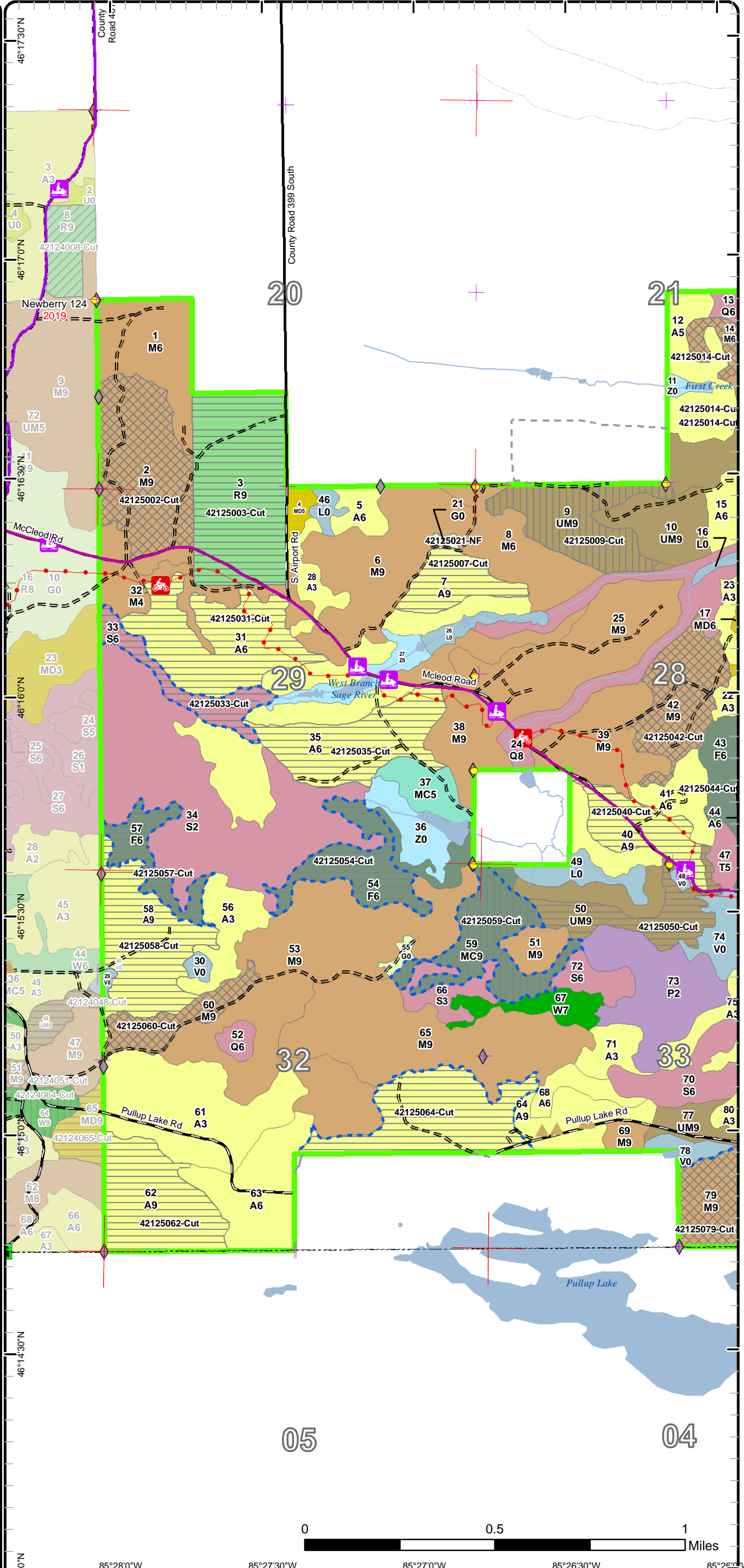
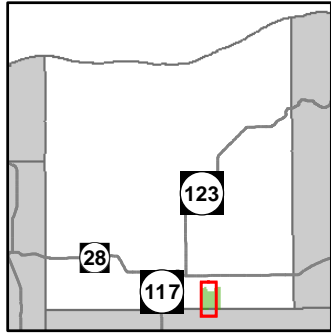
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- Unspecified Structure
- Berms
- Structures
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- Lakes



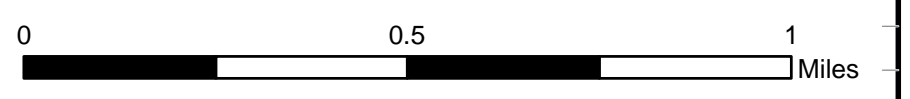
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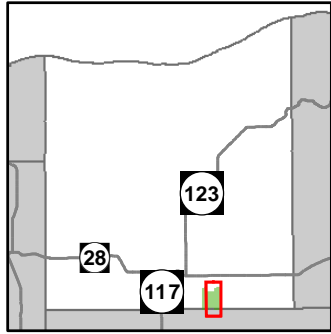
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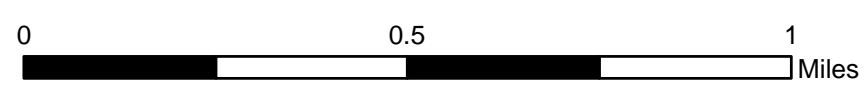
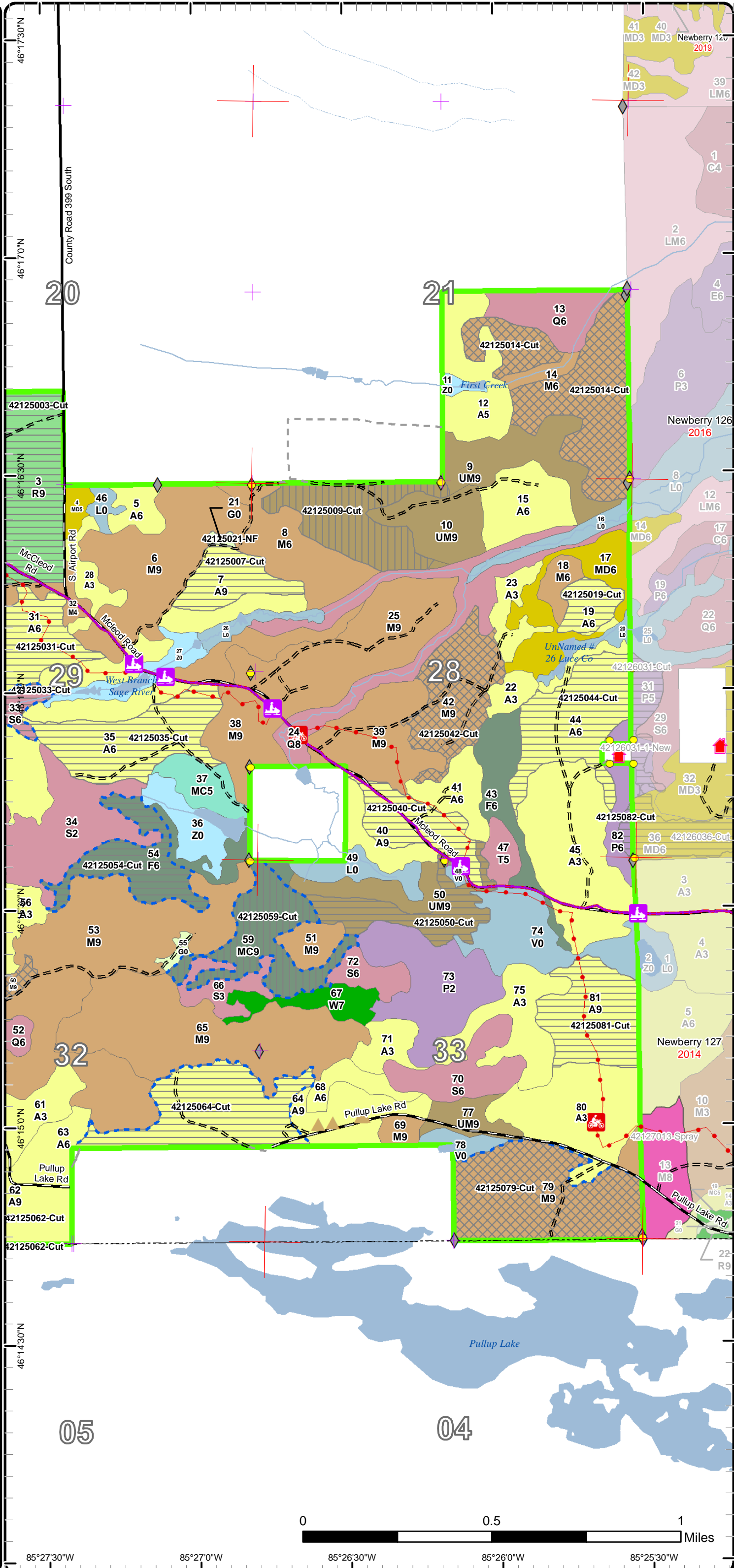
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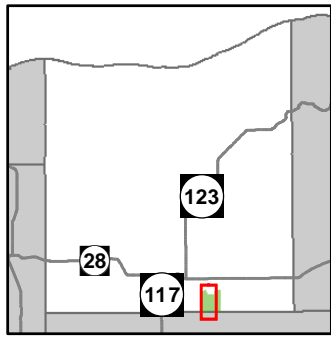
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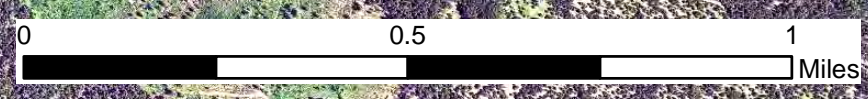
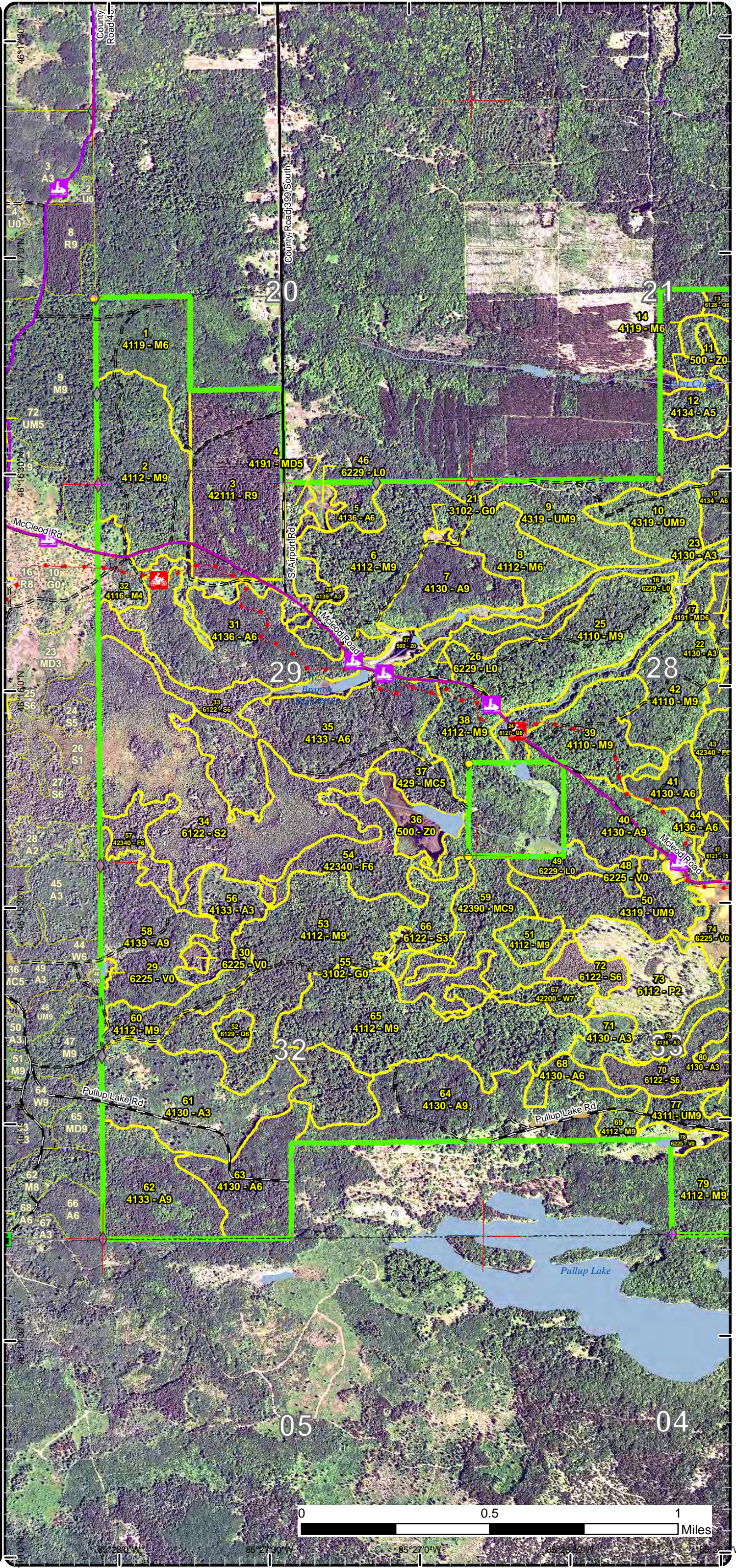
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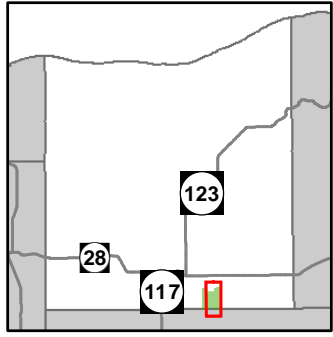


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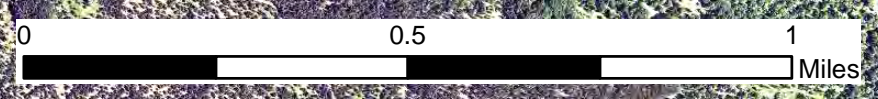
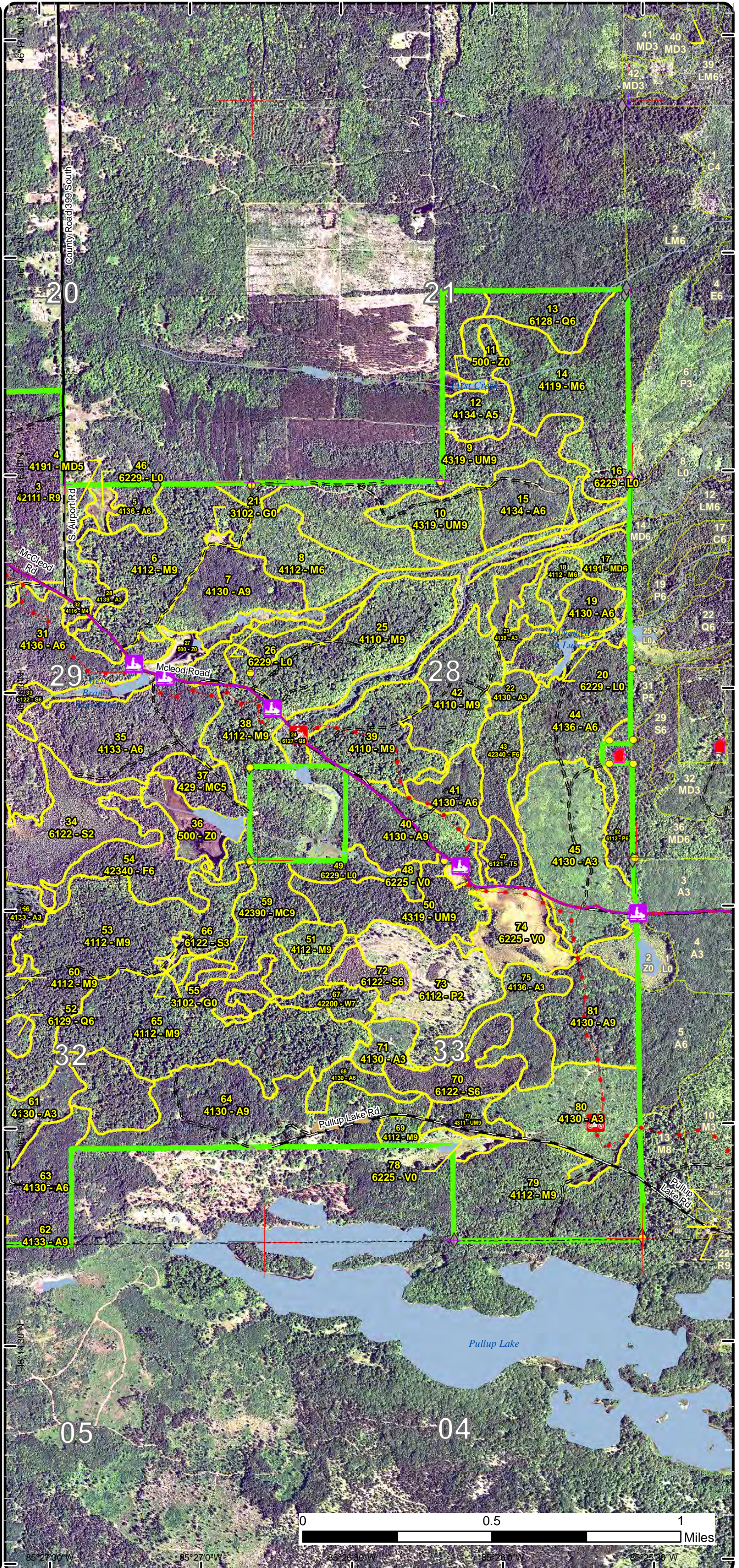


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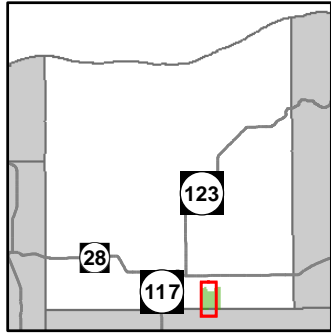
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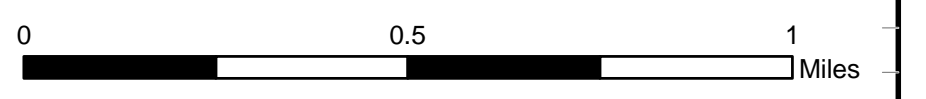
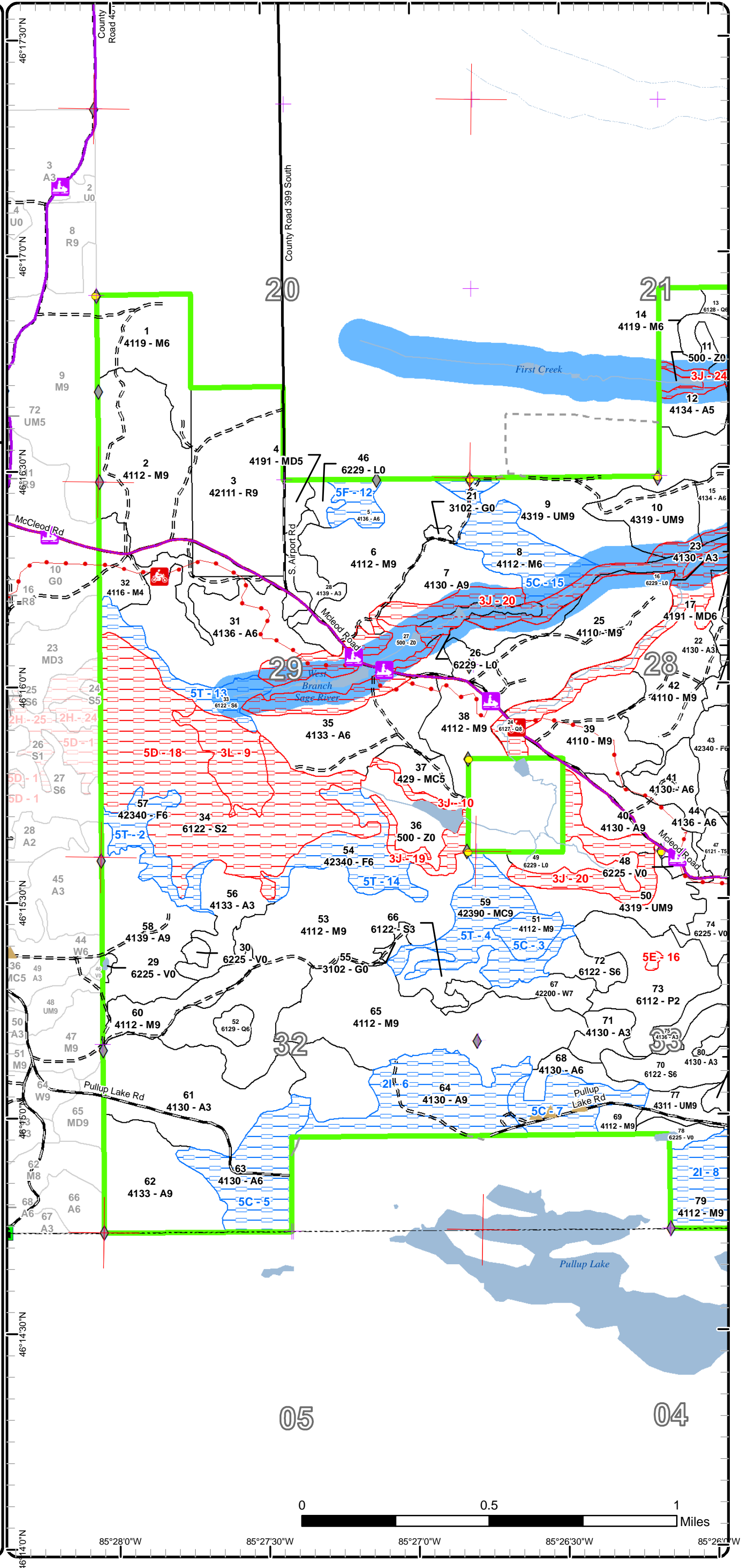
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Special Conservation Areas & Site Conditions Map

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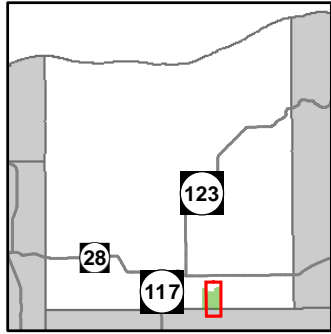
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- Available w/ Constraints
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- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5T: Contingency Treatment for Forest Health Concerns
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



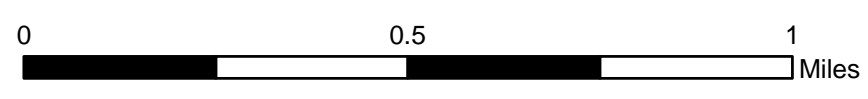
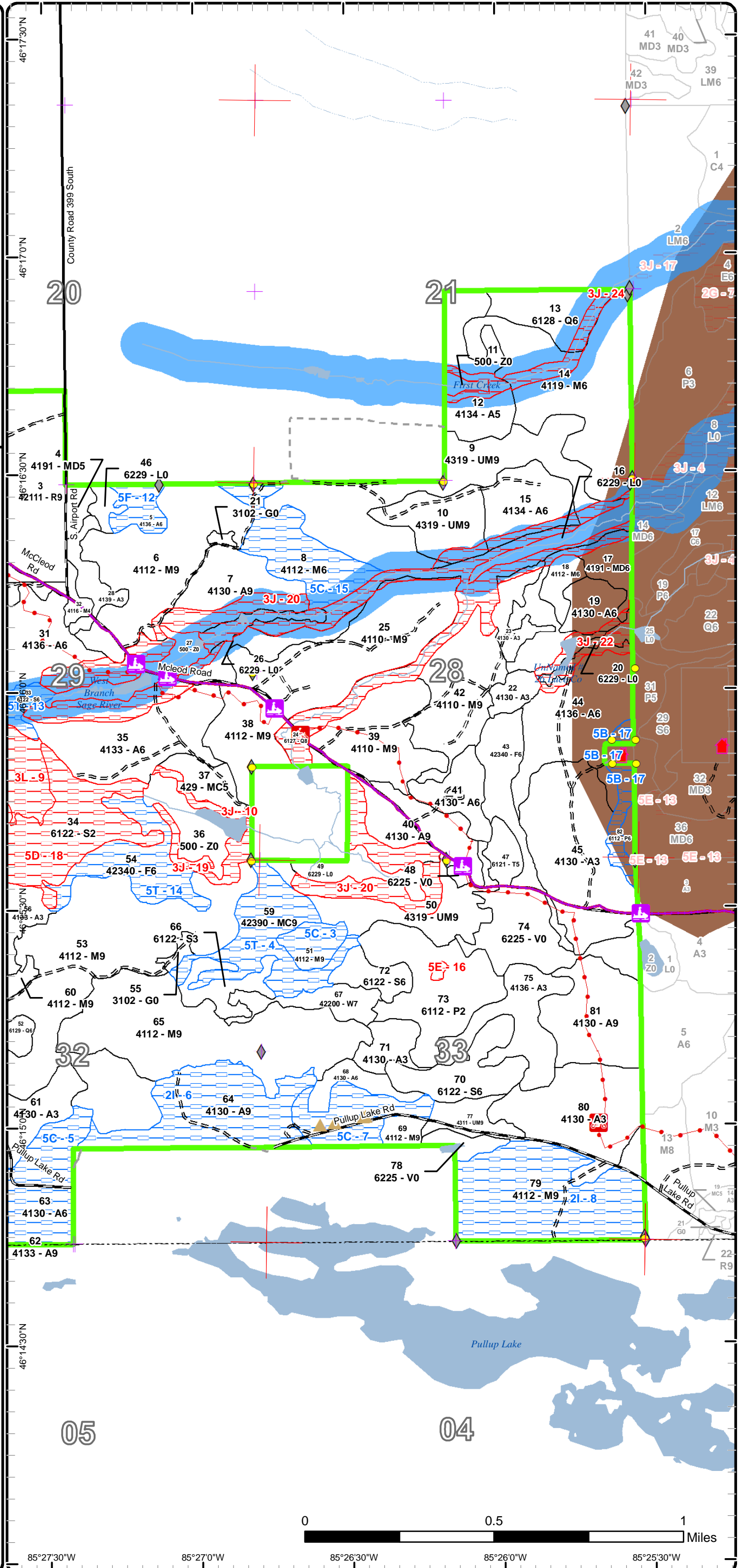
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- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



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Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 125 Year of Entry 2020

Jason Tokar : 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	224	18	47	10	57	155	94	262	0	0	0	0	0	0	0	0	48	915
Bog	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	47	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	61
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	69	74
Lowland Shrub	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Lowland Spruce/Fir	0	0	0	0	13	131	36	0	0	19	0	0	0	0	0	0	0	0	198
Mixed Upland Deciduous	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	29	33
Northern Hardwood	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	804	835
Red Pine	0	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0	80
Tamarack	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	56
Upland Mixed Forest	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	110	152
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	82
Water	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
White Pine	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Total	127	271	18	47	59	196	191	94	398	19	19	0	0	0	0	0	0	1198	2635



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 125
Total Compartment Acres: 2,634

Commercial Harvest - 690
 Harvests with Site Condition - 232
 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	402	0	0	0	0	0	0	0	0	402
Lowland Aspen/Balsam Poplar	2	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	19	0	0	0	0	0	0	0	0	19
Northern Hardwood	0	262	0	0	0	0	0	0	0	262
Red Pine	80	0	0	0	0	0	0	0	0	80
Upland Conifers	0	0	0	0	39	0	0	0	0	39
Upland Mixed Forest	28	0	0	0	40	0	0	0	0	68
Upland Spruce/Fir	49	0	0	0	0	0	0	0	0	49
Total	580	262	0	0	79	0	0	0	0	921

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	921	0	0	0	0	0	0	1	0	923
Next Step	0	80	80	0	80	159	921	0	0	1319
Total	921	80	80	0	80	159	921	0	1	2242



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
48	42124048-Cut	9.7	4311 - Pine, Aspen Mix	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Patch retention, not to exceed 3% of the stand acreage. Leave a few large white pine scattered throughout the stand (1 per 2 acres where present). Leave hemlock. Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with maple, cherry, balsam and spruce.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

2	42125002-Cut	62.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Selection harvest. Residual BA of 80-90. Create some regeneration gaps to release young maple. Leave Hemlock. Portion of the stand south of the McLeod Rd may not need to be managed this time (low BA).

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods with conifer component

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

3	42125003-Cut	79.5	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	73	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention. Plantation pine. Cut all trees 2 inches in diameter and larger.

Specs:

Next Step Burn, Slash; Pesticide, (Inactive)Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide,

Treatments: (Inactive)Aerial

Acceptable Red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

7	42125007-Cut	20.6	4130 - Aspen	Sawtimber Well	77	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retention in patches. Retention not to exceed 3% of stand acreage. Buffer along the pond/creek can be used as the retention. Buffer is to be 300 ft per request of fish division, trout stream. Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers. Create drumming logs by hinge cutting or tipping over 5 trees of any species scattered across the stand that are 9-15 inches in diameter and within site of the redline where there might be mature aspen left or aspen retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with upland deciduous species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



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	Approval Status
9	42125009-Cut	40.3	4319 - Mixed Upland Forest	Sawtimber Well	96	111- 140	Harvest	Shelterwood with Retention	4113 - R.Maple, Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Shelterwood with retention. Mark areas of red maple to 40 BA residual. Retain most of the hemlock. Thick hemlock inclusions should be lined out, no cut areas. Remove red maple with top dieback regardless of diameter class. Retain a component of yellow birch and white pine.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Red maple with conifers and aspen
Regen:

Other Stand should be marked in mid summer (leaf on) to aid in delineating trees with top dieback.
Comment:

Proposed Start Date: 10/1 /2019

14	42125014-Cut	71.6	4119 - Mixed Northern Hardwoods	Poletimber Well	89	141- 170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand 80-100 BA targeting hardwood species. Remove all Aspen & balsam fir. Leave all hemlock, cedar. Buffer stream accordingly.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Mixed hardwoods
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

19	42125019-Cut	11.5	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all species. Leave any large spruce >12" and all white pine. Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers. Access through stand 23.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable aspen
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

21	42125021-NF	1.4	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Wildlife Division will plant some apple trees
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019



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	Approval Status
31	42125031-Cut	58.7	4136 - Aspen, Mixed Conifer	Poletimber Well	70	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retention to be in patches. 300 ft buffer along the creek edge per request of fisheries division, trout stream. Use the
Specs: buffer as retention requirements. Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers. Create drumming logs by hinge cutting or tipping over 10 trees of any species scattered across the stand that are 9-15 inches in diameter and within site of the redline where there might be mature aspen left or aspen retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with upland deciduous.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

33	42125033-Cut	19.0	6122 - Black Spruce	Poletimber Well	81	111- 140	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Contingency Treatment**

Prescription Contingency treatment. Clearcut, no retention if SBW is found in the stand prior to the next entry year. Create 2-3 long linear brush piles
Specs: extending into the adjacent stands.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed lowland conifers with deciduous component

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

35	42125035-Cut	45.9	4133 - Aspen, Mixed Pine	Poletimber Well	66	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Leave all white pine >20". 300 ft buffer along the creek edge per request of fisheries division, trout stream. Use the
Specs: buffer as retention requirements. Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers. Create drumming logs by hinge cutting or tipping over 8 trees of any species scattered across the stand that are 9-15 inches in diameter and within site of the redline where there might be mature aspen left or aspen retention.

Normal ATV trail protections.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable aspen

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
40	42125040-Cut	26.0	4130 - Aspen	Sawtimber Well	77	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Possibly separate out the pocket of maple in the east end and thin that area rather than clearcut, depending on the quality. Retention not to exceed 3% of the stand acreage, retention to be in patches and not individual trees. 300 ft buffer along creek edge per request of fish division, trout stream. Stream buffer to be used to meet retention requirements. Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with upland deciduous species

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

42	42125042-Cut	39.2	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Selection harvest. Residual BA of 90. Create regeneration gaps. Protect areas of established advanced regeneration. Leave white pine and hemlock if present.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwoods with aspen and conifer component

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

44	42125044-Cut	45.5	4136 - Aspen, Mixed Conifer	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand of all species, except large white, pine and spruce >14". Leave all paper birch. Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers. Buffer drainage in NW corner of stand. Acres may vary after prep work is done due to low areas within the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

50	42125050-Cut	27.9	4319 - Mixed Upland Forest	Sawtimber Well	71	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retention not to exceed 5% of stand acreage. Concentrate retention patches in areas without much spruce or balsam (SBW concerns). Leave hemlock. Some lower pockets may require to be a winter cut. 300 ft buffer along the creek edge per request of fisheries division, trout stream. Use the buffer as retention requirements.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed upland deciduous with conifers

Regen:

Other

Access is from the east following the ridge from McLeod Road, south of stand 48.

Comment:

Proposed Start Date: 10/1 /2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
54	42125054-Cut	30.1	42340 - Upland Spruce/Fir	Poletimber Well	64	81-110	Harvest	Clearcut with Retention	42380 - Non Pine Upland Conifer, Mixed Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition: Contingency Treatment**

Prescription Clearcut with retention. Retention to be in patches and no more than 5% of stand acreage. Leave all hemlock. Remove all balsam, spruce, maple, beech, aspen. Buffer the pond 100 ft.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Balsam and spruce with maple, aspen and birch

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

57	42125057-Cut	19.2	42340 - Upland Spruce/Fir	Poletimber Well	54	51-80	Harvest	Clearcut	42340 - Upland Spruce/Fir	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition: Contingency Treatment**

Prescription Contingency treatment of clearcut, if SBW hits the stand. No retention due to SBW and narrow stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed upland conifers with maple and aspen

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

58	42125058-Cut	52.2	4139 - Aspen, Mixed Deciduous	Sawtimber Well	58	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Clearcut with retention. Patch retention, not to exceed 3% of the stand acreage. Leave a few large white pine scattered throughout the stand (1 per 2 acres where present). Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with maple, balsam and spruce.

Regen:

Other Notes in stand 48, comp 124 say to manage that stand when we manage this stand. Add stand 48, comp 124 to the treatment.

Comment:

Proposed Start Date: 10/1 /2019

59	42125059-Cut	39.0	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	96	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition: Contingency Treatment**

Prescription Shelterwood with retention. Residual BA of 30-50 sq ft. Remove all spruce, balsam, birch, aspen, beech. Retain all hemlock and yellow birch.

Specs: Retain white pine over 20 inches in diameter. Mark low quality maple for removal. retain better quality sugar and red maple.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Hemlock, northern hardwoods, and upland conifers.

Regen:

Other Treatment will be implemented if spruce budworm is found within the stand.

Comment:

Proposed Start Date: 10/1 /2019



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	Approval Status
60	42125060-Cut	19.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Selection harvest. Residual BA of 80-90. Create some regeneration gaps, based on the success in adjacent stand 53. Remove lower quality, large red maple with defects. Also remove any trees with logging damage. Keep the residual BA higher (100 BA) along stand 58 and 56 to keep aspen encroachment to a minimum.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

62	42125062-Cut	47.7	4133 - Aspen, Mixed Pine	Sawtimber Well	76	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Retention to be in patches, not more than 3% of stand acreage. Leave white pine over 20 inches in diameter. Leave 1/2 of the red pine as residual. Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with maple and mixed upland conifers

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

64	42125064-Cut	54.6	4130 - Aspen	Sawtimber Well	76	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Clearcut with retention. Retention to be in patches and no more than 3% of the harvest portion of the stand. Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers. Good sale access via 2 existing roads from the south. No other new roads needed. Harvest the western portion of the stand where the slopes are gradual. Retain the eastern half with steep slopes and check in 10 years for possible harvest.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with upland deciduous and a conifer component

Regen:

Other

Comment: Survey work needed along the south edge of the stand, Hiawatha Sportsman's Club property.

Proposed Start Date: 10/1 /2019



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	Approval Status
79	42125079-Cut	69.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No **Site Condition: Survey Needed**

Prescription Selection harvest. Residual BA of 80-90, possibly lower in areas of lower quality. Mark the aspen to cut, maintaining a component as residual.
Specs: Do not reduce BA too much around aspen to avoid too much aspen regen within the stand. Remove beech. Leave oak. Within 1 tree length of Pullup Lakes Rd, do not remove aspen and keep residual BA at 100, to avoid too much aspen encroachment. In areas of red oak, open up canopy around red oak to promote oak regen. Maintain conifer component along the bog in NW corner of stand. Portion of the stand north of Pullup Lakes Road (NE corner) could be left out of treatment due to small diameters, lower BA, young aspen.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Northern hardwoods with an aspen and red oak component.
Regen:

Other Possible survey needs along the west edge of the stand.
Comment:

Proposed Start Date: 10/1 /2019

81	42125081-Cut	39.2	4130 - Aspen	Sawtimber Well	75	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Clearcut with retention. Retention to be in patches, not to exceed 5% of stand acreage. One retention area should be along the boundary with stand 80. Leave any red oak that may be found in the stand. Maintain mature aspen and conifer in the red line. 2 inch spec on all deciduous species and 4 inch spec on conifers.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen with northern hardwoods and oak.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

82	42125082-Cut	2.3	6112 - Lowland Aspen	Poletimber Well	73	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Final harvest not cutting cedar or hemlock if present. Regen will be the spp that are present now. There are wet areas and these could be the retention areas especially those areas on the edge of the stand 32.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regeneration of spp that are already present.
Regen:

Other Preferred winter cut unless otherwise authorized by Unit Manager and Biologist.
Comment:

Proposed Start Date: 10/1 /2009

**Total Treatment
Acreage Proposed: 932.4**

Report 4 – Site Conditions

Newberry Mgt. Unit
Jason Tokar : Examiner

Compartment: 125
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		2I	5B	5C	5F	5T	3J	3L	5D	5E	
914	694	129	91	Aspen	55	0	64	10	0	68	23	0		
47	47	0	0	Bog	0									
4	4	0	0	Herbaceous Openland				0						
61	48	11	1	Lowland Aspen/Balsam Poplar		11			0				1	
74	23	0	51	Lowland Conifers						51				
40	27	0	13	Lowland Shrub				0		13				
198	49	19	131	Lowland Spruce/Fir					19		0	131		
33	27	0	6	Mixed Upland Deciduous						6				
835	711	114	10	Northern Hardwood	70		44	0	0	10				
80	80	0	0	Red Pine										
8	8	0	0	Tamarack										
56	13	39	4	Upland Conifers			0		39	4				
152	133	0	20	Upland Mixed Forest	0		0		0	20				
82	24	49	9	Upland Spruce/Fir					49	9				
36	36	0	0	Water					0	0		0		
14	14	0	0	White Pine					0					
2,634	1,937	362	335	Total Forested Acres	124	11	109	10	107	180	23	131	1	
	74%	14%	13%	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
2	Available	5T: Contingency Treatment for Forest Health Concerns	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Contingency treatment of clearcut, if SBW hits the stand. No retention due to SBW and narrow stand.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jason Tokar : Examiner

Compartment: 125
Year of Entry: 2020

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5T: Contingency Treatment for Forest Health Concerns	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand will be harvested if spruce budworm is found within the stand prior to the next entry year.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2I: Survey needed	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey work needed along Hiawatha Sportsman's Club property line							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest in 10 years. Age class diversity							
8	Available	2I: Survey needed	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey work may be needed along the west side of the stand, bordering the Hiawatha Sportsman's Club property							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jason Tokar : Examiner

Compartment: 125
Year of Entry: 2020

9	Unavailable	3L: Other wildlife concerns	23	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Treatment delayed on this portion of stand 35 per request of wildlife division.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5F: Evaluated for Forest Health Considerations	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Evaluated for SBW.							
13	Available	5T: Contingency Treatment for Forest Health Concerns	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest prior to next year of entry if SBW if found in the stand.							
14	Available	5T: Contingency Treatment for Forest Health Concerns	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand will be harvested if spruce budworm is found within the stand prior to the next entry year.							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold for 10 years, smaller diameters. Age class diversity in maple stands in the area.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jason Tokar : Examiner

Compartment: 125
Year of Entry: 2020

16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5B: Maintain for regeneration purposes	11	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: held due to treatment on stands to the east							
18	Unavailable	5D: Unproductive Forest Land	131	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	140	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jason Tokar : Examiner

Compartment: 125
Year of Entry: 2020

24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	Poletimber Well	40.4	89	81-110	Dense, smaller dbh poletimber. East end has higher % aspen component within the hardwoods. BF saplings throughout with hemlock pockets. W side is slightly better quality - straighter boles, more HM. North half has a lot of juniper on the ground. Old grades running throughout the stand.
2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	66.4	91	111-140	Sugar maple and red maple with black cherry. Scattered hemlock and a few large white pine. Lots of 2 ft tall maple seedlings throughout as ground cover. Good form and quality to the sugar maple. Some advanced regeneration in openings in the canopy (beech died out). Southern portion of the stand has slightly lower BA and more advanced understory.
3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	79.5	73	141-170	Red Pine plantation. High BA throughout (plots of 150-190). Average diameter 12-14 inch, many in the 16 inch class. Heights of 6-7 sticks. Mostly log size (2/3). Understory of maple and beech, thick 10-20 ft tall. Jack pine understory in pockets, possibly where jack pine was removed. Northeast corner has more aspen and maple (large aspen, low quality maple). Thinned in 2001 sale #029-00 (removed every other row?)
4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	4.9	36	1-50	Semi open stand with open grown black cherry, maple, white pine, spruce and aspen. Clumps of maple and cherry. M5/M3/A3. Stand has trees in the pole size, but a lot of trees still in the sapling size class. Soil: Wallace - spot complex
5	4136 - Aspen, Mixed Conifer	Poletimber Well	9.8	61	81-110	Mixed stand of white pine, quaking aspen, balsam, white spruce, red maple, some cherry. Young white pine pocket in middle of the stand. Aspen ranges from 8 inches up to 12-14 inches in diameter. Much of it is younger in the 8-9 inch class. Some low ground within the stand. Thick understory of balsam and some maple and white pine. Stand is healthy, younger, hold for 10 years. Soil: wallace - spot complex
6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	64.7	91	81-110	Stand harvested via thinning as sale #038-10-01, "McLeod Road Maple". Complete 09/29/11. A few mature aspen were retained after harvest in interior of the stand, as well as white pine and large white spruce. Good quality maple stand with some good maple, cherry and aspen regeneration coming in.
7	4130 - Aspen	Sawtimber Well	32.7	77	141-170	Aspen stand with hard maple. Some spruce and white pine along edges. Most of the stand is large diameter, very tall aspen. Runs of smaller diameter (9-11 inch) aspen but still mature. Most of the larger diameter aspen (12-14 inch) is 7-9 sticks tall. Pockets of hard maple, fair quality. Understory of maple and aspen 2-4 inch diameter.
8	4112 - Maple, Beech, Cherry Association	Poletimber Well	34.1	81	111-140	Stand has smaller diameter poletimber. Sugar maple with red maple and cherry. Runs of larger diameter maple. Component of large diameter aspen. Scattered large spruce. Lots of maple in the 3-5 inch diameter class, mostly in the understory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
9	4319 - Mixed Upland Forest	Sawtimber Well	72.9	96	111-140	Red maple is mostly low quality with substantial top dieback. Hemlock throughout the stand with inclusions of thick hemlock. South edge of the stand is a ridge. Wet "swales" running NW/SE between areas of higher ground. Some large diameter aspen. Northern portion of the stand is an old opening filling in with open grown white pine and some white spruce. A few pole size cedar along the lower swales. Large diameter white pine. Soil: Spot - Finch complex
10	4319 - Mixed Upland Forest	Sawtimber Well	25.3	86	81-110	Hardwood stand with pockets of hemlock, mainly in the northern half of the stand. Some large diameter white pine. Good component of 3-5 inch diameter balsam throughout. Red maple, fair quality, better quality in the center of the stand.
12	4134 - Aspen, Spruce/Fir	Poletimber Medium	31.4	40	81-110	Most of the stand is in the small poll size class with some still just sub merchantable. Scattered pockets of BF/ spruce poles. Scattered WP and RM. Balsam fir, spruce, white pine saplings. Lower quality Aspen with the center part of the stand heavier to Balsam fire, spruce, and red maple.
13	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	22.0	98	171-200	Heavy cedar component with red maple and aspen and tag alder scattered throughout the stand. Some of the higher areas have pockets of red maple. Most areas are wet and access would be difficult but not impossible to access. Some hemlock and white pine with a small amount of tamarack in the stand.
14	4119 - Mixed Northern Hardwoods	Poletimber Well	76.7	89	141-170	Red maple pole timber with balsam fir understory. Associated mature Aspen - areas of higher concentration. Cedar is in inclusions and single, scattered trees throughout. Low ground, wet/water pockets. Hemlock component. Future thinning should promote Red Maple regen instead of aspen to provide a longer lived food source for the adjacent deer yard. Feeder stream of the West branch of the Sage river runs through the middle of the stand. Northern half of the stand is lower and more wet than the south half.
15	4134 - Aspen, Spruce/Fir	Poletimber Well	25.5	40	51-80	3-4 stick aspen scattered throughout. The stand is just beginning to move into the pole size classes. Heavy BF sapls, BC component.
17	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.5	81	81-110	Poor RM - smaller dbhs. Very heavy BF sapl undestory. BS, BF inclusion at the south end of the stand. Some larger Aspen scattered around the stand.
18	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.5	85	81-110	Medium quality hardwoods with red maple, paper birch, some cherry mixed in. Balsam fir understory similar to stand 17 but not as thick. Access through stand 23.
19	4130 - Aspen	Poletimber Well	12.3	58	81-110	Pole timber sized aspen moving from A5 to A6 small BC with associated RM, BF sapling understory. Scattered large diam Spruce.
22	4130 - Aspen	Sapling Well	7.0	17	Immature	Stand harvested as timber sale #038-01. Good aspen regeneration. Some white pine residual.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4130 - Aspen	Sapling Well	11.4	17	Immature	Good Asp regen 10-20' tall. Scattered BF Spr WP. Associated BC regen.
24	6127 - Lowland Pine	Sawtimber Medium	46.8	126	51-80	Variable stand. Areas immediately adjacent to the creek has a mix of tag alder, spruce, balsam and white pine. Where the stand moves to upland it transitions to good quality white pine, hemlock and balsam understory. Scattered springs come out of hills slope and lead into creek. Retained as creek/lowland buffer and acts as a good transition zone for wildlife corridor. Component of white pine in lower portions is dying out.
25	4110 - Sugar Maple Association	Sawtimber Well	64.2	86	81-110	Primarily sugar maple and black cherry stand. Lesser component of red maple. scattered yellow birch. Good quality/high quality stand, very tall, good merchantable heights (7-8 sticks). Good hard maple regeneration. Mountain ash throughout. Pockets in the stand that don't appear to have been thinned last harvest. Stand was thinned as sale #017-00. Completed 10/2004.
28	4139 - Aspen, Mixed Deciduous	Sapling Well	10.7	8	Immature	Stand harvested as sale #038-10-01, "McLeod Road Maple". Complete 09/29/11. Regeneration is thick, 10-20 ft tall. Aspen, maple, cherry regen mainly. A few scattered residual white pine and hemlock sawlog trees.
31	4136 - Aspen, Mixed Conifer	Poletimber Well	72.8	70	111-140	Stand is a combination of old stands 29 & 31. Mature aspen with a good component of red maple. Lesser components of white spruce, white pine and balsam. large diameter white pine and white spruce. Large white spruce is all showing decline and mortality. Understory of mainly maple and balsam. Seedling layer of maple 2 ft tall. Quality in aspen is better in the eastern 1/2-2/3 of the stand. If harvest, leave a buffer along the pond/creek, 100ft, mainly of white pine and maple with balsam.
32	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	31.1	36	Unspecified	Opening filling in with low quality maple and cherry, along with young aspen. Crooked, multi stem, open grown black cherry and red maple, with some young aspen. Scattered poor quality aspen pockets, occasional white pine. soil: Kalkaska sand - burned
33	6122 - Black Spruce	Poletimber Well	19.0	81	111-140	Good Black spruce. Transitions to a wet, sapling spruce and tamarack stand to the south. Higher ground at the N edge of the stand with an aspen component - some good quality. Some natural red pine along the north edge of the stand. Component of white pine and aspen as well.
34	6122 - Black Spruce	Sapling Medium	130.5	46	1-50	leatherleaf Black spruce and tamarack bog. 1" dbh. Open areas of leatherleaf and scattered high ground island inclusions of mature BS BF and WP.
35	4133 - Aspen, Mixed Pine	Poletimber Well	83.9	66	81-110	Mature Aspen with areas of lower stocking, sub merchantable trees. Balsam, Spruce, White pine saplings. Paper birch poles and saplings. Natural Aspen regen. NE corner of stand turns to small Asp and WP.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	429 - Mixed Upland Conifers	Poletimber Medium	14.9	56	51-80	Heavy balsam fir component just reaching pole size timber. Some scattered large diameter spruce, white pine, and red pine. Some pockets of aspen pole size timber in the stand. Some smaller white pine mixed in with the balsam as well. Could be treated now or held for 10-20 years.
38	4112 - Maple, Beech, Cherry Association	Sawtimber Well	42.9	86	81-110	Stand harvested via thinning as sale #038-10-01, "McLeod Road Maple". Complete 09/29/11. Thinned to 80 BA. Retained hemlock and white pine, along with a few aspen in the interior of the stand. Good regeneration of maple, aspen, cherry and beech. Aspen regen is in pockets. Check in 10 years for selection harvest.
39	4110 - Sugar Maple Association	Sawtimber Well	38.7	91	81-110	Stand was thinned as sale #017-00. Cut in 10/2004. Mainly a sugar maple stand with component of black cherry. Diameters range from 9 inch to 16-18 inch. Good form and quality to the stand. BA average about 100-110. Excellent hard maple regen. Scattered areas of black cherry and regeneration and black cherry pulpwood. Soil: Kalkaska - Okeefe sands
40	4130 - Aspen	Sawtimber Well	38.5	77	141-170	Mature, large diameter, tall bigtooth aspen. Very good aspen site, very tall and large diameters. Larger aspen is merchantable heights of 8-9 sticks. Smaller diameter, pulp quality sugar and red maple. Scattered large diameter white spruce and white pine as well as some pole size white birch. Pocket of more maple in the eastern end of the stand. Aspen is mature, showing some decline.
41	4130 - Aspen	Poletimber Well	16.2	26	1-50	Stand was cut as sale #001-92. Completed in 1993. Young aspen stand that is transitioning from sapling to a pole stand. Much of the stand is still sapling size. Some of the aspen and maple have moved into small pole size class. Some with merchantable heights of 3-4 sticks tall. Components of maple, black cherry and balsam fir. Beaked hazel, raspberry present. soil: Paquin - Spot complex
42	4110 - Sugar Maple Association	Sawtimber Well	39.2	91	111-140	Very nice sugar maple stand with components of black cherry, red maple, yellow birch. Average stand dbh of 11-12, ranging from 9-16 inches. Tall trees, straight, good form. Scattered pockets of advanced hard maple regeneration. BA of 110-140, ranging up to 170.
43	42340 - Upland Spruce/Fir	Poletimber Well	23.6	58	51-80	Mature spruce, BF with BF understory. South end has some thick tamarack, while the western edge has more spruce, hemlock, and some white pine. Associated mature Asp and mixed hardwood pole timber. Hold for a timber type transitional area into lowlands/ wildlife corridor.
44	4136 - Aspen, Mixed Conifer	Poletimber Well	49.9	51	81-110	Aspen, Mixed hardwoods just moving into pole timber. Associated PB/BF, scattered pockets of larger Asp (8-10" dbh). N end of the stand has a heavier BF component and scattered poor WP. Areas heavier to mixed hardwood saplings / small black cherry pole timber. Beaked hazel. Good access from the south through stand 45. Road could be wet in a wet fall or summer. Winter cut would be best. Road goes to north end of 44 and grows shut between 44 and 20.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4130 - Aspen	Sapling Well	63.8	6	Immature	Stand harvested via final harvest as sale #005-10-01, McLeod Road Aspen. Complete 09/06/2013. Nice aspen regeneration with a component of maple and cherry. A few scattered residual in southern end of stand.
47	6121 - Tamarack	Poletimber Medium	8.0	43	51-80	Small Tamarack and black spruce. Very wet. Thick understory. Tag alder understory. N end of stand heavier to BS - less tag alder. Leatherleaf
50	4319 - Mixed Upland Forest	Sawtimber Well	42.4	71	111-140	Stand is a mix of large birtooth aspen over balsam, areas (lower) of black spruce, slightly open areas with white pine, low quality red maple, large white spruce, pockets of jack pine, scattered white birch and hemlock. Occasional beech and white birch. Thick balsam understory throughout. Good balsam component 6-9 inch diameter. BA averages 110-140, with some areas of higher BA. Areas thicker to merchantable balsam. A creek/drainage splits the stand. soil: Spot - Finch complex
51	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.2	91	111-140	Large diameter red maple with sugar maple, some yellow birch, hemlock and cherry. Isolated island of hardwoods. Hold for 10 years and harvest with stand 59 and 53. Cinnamon fern.
52	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	5.2	93	111-140	Hemlock inclusion surrounded by hardwoods. The stand falls in a lower depression area with wetter soil types. Stand is primarily hemlock with cedar, white pine, red maple, birch and some aspen.
53	4112 - Maple, Beech, Cherry Association	Sawtimber Well	130.1	83	81-110	Stand harvested as sale #014-10-01, "Check Cruise Hardwoods". Completed 07/03/2014. Overall quality of the stand is fair to good. Sugar maple with red maple. Good component of black cherry. Minor component of beech that is still alive. Regeneration gaps from the harvest have very good regen, ranging from 10-25 ft tall. Fair to good maple regeneration throughout the remainder of the stand as well. Some deer browsing on saplings, light to moderate. Some areas in the stand were not thinned as hard and have a higher BA. Pockets of lower quality in lower areas and at the edge of the stand. Scattered vernal ponds. Hard maple saplings and balsam fir. Heavier F3 in the far NE of the stand and along N edge. Hemlock and white pine component.
54	42340 - Upland Spruce/Fir	Poletimber Well	39.2	64	81-110	A good portion of the stand (lower areas) were flooded by beaver activity. Some dead balsam and spruce along those edges. Still very wet. Cedar and tag alder inclusion. High ground in 9-10 inch balsam with spruce, hemlock with less components of maple, white birch. Stand transitions to tag alder/winterberry/black spruce at the north edge. Soil: Paquin Sand
56	4133 - Aspen, Mixed Pine	Sapling Well	21.2	5	Immature	Stand harvested as sale #014-10-01, "Check Cruise Hardwoods". Completed 07/03/2014. Retained a white pine and white birch component. MO was spruce/fir with secondary MO aspen. Stand is regenerating to mainly bigtooth aspen 10-15 ft tall. Good component of maple stump spouts and some cherry 10 ft tall. Balsam component. Overstory of white pine residual. Portions of the stand with higher white pine residual are not regenerating as well as open areas.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	42340 - Upland Spruce/Fir	Poletimber Well	19.2	54	51-80	Balsam, spruce and red maple. Some aspen along the stand edge bordering stand 58. Scattered large diameter white pine. Stand is mostly a pole size stand with much of the balsam and spruce in the 8-9 inch class. Transitions to low ground spruce, stand 34. NO sign of spruce budworm currently. Monitor this stand for SBW, with a contingency treatment. Thick balsam and spruce understory. Soil Croswell - Spot complex
58	4139 - Aspen, Mixed Deciduous	Sawtimber Well	52.2	58	111-140	Mature aspen stand (55-60 years old) with red maple, balsam, and a lesser component of white spruce and occasional white pine. Pocket of larger diameter, high BA aspen in the eastern and southern portions of the stand. Western portion of the stand is slightly more open grown, shorter heights and less BA. Much of the balsam is in the smaller pole size, 5-7 inches. Maple understory is very thick throughout most of the stand. More balsam and spruce along the open areas in the stand. White pine component. Stand 59 was merged into this stand. Soil: Kalkaska sand, burned
59	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	40.8	96	111-140	Large diameter hemlock with low quality red maple, pole size balsam and black spruce. Minor component of white spruce. Lots of 3-6 inch balsam. More black spruce along the wetter edges near stand 49. Some balsam 9-10 inch on higher ground (50 yrs?). Balsam and spruce look healthy, no sign of SBW. This stand has a lesser component of balsam and spruce than other conifer stands in the area. Possibly hold even if SBW is found in the area. Stand was originally part of stand 50. Separated out due to higher hemlock and maple component. Heavy BF understory. W part of stand has Asp, BF sapls with ced and tag alder. Heml, WP inclusion on a ridge in S part of the stand. Good quality pockets of BF, spr. A creek/drainage splits the E part of the stand soil: Spot - Finch complex
60	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.3	91	111-140	Stand was thinned 20 year ago as timber sale #006-01. Primarily a sugar maple stand with red maple and a good black cherry component. M9 stand. Follows a slight ridge north of the two track road through stand 53. Good access from west.
61	4130 - Aspen	Sapling Well	68.2	8	Immature	Stand harvested as sale #006-10-01, "Compartment 125 Aspen". Complete 09/29/11. Regen 2015: Fully stocked with aspen, two small openings near road that goes through stand. Lots of raspberry brush on northern edge. Stand is regenerating nicely to aspen with maple component. Some cherry and balsam. Residual white pine and a few hemlock.
62	4133 - Aspen, Mixed Pine	Sawtimber Well	47.7	76	111-140	Stand is primarily a mature bigtooth aspen with a component of maple, white pine, red pine and balsam. Lesser components of beech, white birch. Decline and mortality starting in the mature aspen. Large diameter white pine throughout. Lots of 5-8 inch balsam, areas of 9-10 inch balsam. Runs of smaller aspen on the south facing slope of the steep ridge in the stand. Pocket of log/pole red pine in southern portion of the stand. Areas with larger diameter (14-16 inch) aspen, overmature. Red maple is low quality throughout. Pocket of decent quality sugar maple in the middle of the stand. Ridges in the stand run E/W with a steep south facing slope. Operable from the east and west ends. Old road running E/W through the stand can be used if managed. soil Kalkaska loamy sand



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4130 - Aspen	Poletimber Well	40.6	58	81-110	Aspen stand, A6/A9. Most of the aspen is in the 8-9 inch diameter class. Runs of larger diameter aspen, up to 12 inches in diameter. Scattered large diameter white pine. Good red maple component. White birch also present. Occasional red pine. Understory of maple, balsam and hazel. Scattered openings throughout, filling in with aspen. Overall, stand is younger than most aspen in the compartment, healthy. Hold for 10 years for diversity. Borders on a young aspen cut adjacent on HSC.
64	4130 - Aspen	Sawtimber Well	78.5	76	111-140	Nice, large diameter aspen, both quaking and bigtooth. Much of the aspen is mature to overmature. Showing signs of decline and mortality. Very large diameters in the northern half of the stand (more bigtooth). Some runs/pockets of maple. Very tall aspen throughout, 7-8 sticks merchantable. Lower BA and shorter aspen around the openings within the stand, also showing decline. BA ranges from 100-120 in the south to 140-170 to the north. Some rolling topography in the western half of the stand. Very steep hills/ridges in the eastern half of the stand. Old ORV hill climbs in eastern portion of the stand. Interspersed openings and ridges.
65	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90.5	91	81-110	Stand was thinned as sale #006-01. Good maple regeneration, especially in the regen gaps. Good quality hard maple with a component of red maple and black cherry. Scattered hemlock. Areas in the stand are ready to be thinned again (120 BA), other areas are bordering on ready (100-110 BA) and also areas still around 80-90 BA. Hold for 10 years. Scattered balsam fir pockets. Some raspberry
66	6122 - Black Spruce	Sapling Well	13.1	36	Unspecified	Small diameter, stunted black spruce and tamarack on leatherleaf bog ground. Areas of large white pine and hemlock at edges
67	42200 - Natural White Pine	Sawtimber Poor	14.3	91	1-50	A3 regenerating, areas along north edge with large diameter white pine and hemlock. Red maple stump sprouting with little aspen regen in this area along the north edge. Red maple saplings are heavily browsed by deer. Stand was cut as part of timber sale #006-01. Soil - Spot - Finch complex
68	4130 - Aspen	Poletimber Well	9.9	39	51-80	Stand was harvested in 1980. Young pole size aspen stand. Some aspen still in the sapling size class. Component of red maple. Some balsam and white birch. Scattered residual white pine. Maple, balsam, aspen and beaked hazel in understory.
69	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.3	91	81-110	Small acreage stand of sugar maple, beech and some large aspen. A few cherry. Areas with beech that has died out, creating regeneration gaps, lower BA. Average BA in the stand is only 90-110. Some large diameter, 16-18 inch sugar maple. Fair to good quality. Good component of 8 inch maple and beech.
70	6122 - Black Spruce	Poletimber Well	25.0	58	111-140	Small diameter black spruce, bog ground. Very wet. Lots of spruce 2-4 inches in diameter. average BA of 60-90 sq ft. Areas of 2-3" dbh in the interior and eastern portion of the stand. Stand just transitioning into poletimber size classes. White birch and white pine component. a couple red oak saplings on the southern edge of the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	4130 - Aspen	Sapling Well	11.4	6	Immature	Stand harvested via clearcut with reserves as sale #004-10-01. Completed 12/19/2013. Regeneration check needed per work instructions. Regenerating to mainly aspen, with maple, cherry, white birch. Residual white pine.
72	6122 - Black Spruce	Poletimber Well	10.7	51	51-80	Small diameter black spruce with a tamarack component. Very wet stand, standing water. Lots of spruce less than 4 inches in diameter. No evidence of any SBW in the stand in 2018.
73	6112 - Lowland Aspen	Sapling Medium	46.9	6	Immature	Stand harvested via clearcut with reserves as sale #004-10-01. Completed 12/19/2013. Stand is regenerating to aspen, balsam poplar, maple, some cherry on high ground, balsam, scattered spruce and white pine. Small spruce retention pocket in northern portion of the stand. Many areas in the stand are still open, not regenerating yet.
75	4136 - Aspen, Mixed Conifer	Sapling Well	30.5	25	Immature	Stand harvested as sale #002-92. Aspen 20+ ft tall. Scattered balsam fir and spruce. Red maple and cherry component as well. Stand is on a ridge and higher ground than the adjacent lowland aspen bordering to the west. Some residual white pine. Soil - Rousseau fine sand
77	4311 - Pine, Aspen Mix	Sawtimber Well	11.8	96	111-140	Mixed stand of large diameter red pine, white pine, aspen, and some red oak. Component of balsam and red maple as well. Good component of red oak saplings 10-20 ft tall in the understory. Also maple, balsam and aspen in the understory. More Red pine in western part of the stand.
79	4112 - Maple, Beech, Cherry Association	Sawtimber Well	73.4	81	111-140	Good quality hard maple stand with components of red maple and black cherry. Good white birch component in spots. Large diameter bigtooth aspen throughout, heavier component near the north stand edge along Pullup Lakes Rd. Scattered beech that are still alive. fair to good quality. Areas of lesser quality and slightly lower BA. Some red oak in the southern reaches of the stand. Pockets of mature aspen. Northwest portion of the stand, north of the road mainly, has lower quality and BA - it had been treated as a firewood sale roughly 35-40 yrs ago.. Understory hard maple and beech is patchy, thick in areas and non existent in others. Also some balsam understory. Stand was held last entry year to be treated this entry year.
80	4130 - Aspen	Sapling Well	48.6	6	Immature	Young bigtooth aspen with component of maple, red oak, cherry and some balsam. Regen is thick and 10-15 ft tall, coming in nicely. A few residual red oak poles and larger white pine and red pine. Stand harvested via final harvest as sale #005-10-01, McLeod Road Aspen. Complete 09/06/2013.
81	4130 - Aspen	Sawtimber Well	39.2	75	111-140	Mature aspen stand, mostly bigtooth, with sugar maple, red maple, some cherry. Understory of balsam fir saplings and widely scattered small pockets of maple. Stand was held last entry year for age class diversity, to be harvested this entry year. Old notes - "Stand exactly like St 80, split roughly in half to balance Asp cutting. Hold until next cutting cycle to provide timber sustainability and balance the cut areas."

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Newberry Mgt. Unit

Report 7 – Forested Stands

Compartment: 125
Year of Entry: 2020



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	6112 - Lowland Aspen	Poletimber Well	13.7	73	81-110	low ground Asp and balm. Assoc RM, WB with scattered Elm. BF, spr component. beaked hazel and tag alder scattered throughout. Wet ground. Hold to buffer cut areas to the east



Stand	Cover Type	Acres	Managed Site	General Comments:
11	500 - Water	2.7	No	Series of beaver ponds. Thick BF, Spr sapl and small polet at edges
16	6229 - Mixed lowland shrub	10.3	No	tag alder, swamp grass along creek course. Areas of old beaver dams, scattered small black spruce and balsam
20	6229 - Mixed lowland shrub	5.9	No	cattail, tag alder, swamp grass along creek course leading out of old beaver ponds. Old beaver meadow
21	3102 - Grass	1.4	No	Small grass opening. Contains a couple of oak along the eastern edge of the stand, along the road.
26	6229 - Mixed lowland shrub	7.4	No	tag alder along creek. Scattered balsam and cedar. Histosols and Aqueuts
27	500 - Water	14.0	No	Beaver flooding/pond(s) with drainage. Cattails, tag alder, swamp grass. Histosols and Aqueuts
29	6225 - Bog	1.2	No	
30	6225 - Bog	2.7	No	Leatherleaf bog.
36	500 - Water	19.0	No	
46	6229 - Mixed lowland shrub	4.3	No	Stand has leatherleaf, bog type ground throughout most of the stand. Sand bottom in spots (blueberries). Standing water in north portion of the stand.
48	6225 - Bog	1.6	No	small, open leatherleaf bog. Seasonally ponded
49	6229 - Mixed lowland shrub	12.4	No	tag alder along creek. Scattered BF and Cedar. soils: Histosols and Aqueuts
55	3102 - Grass	2.6	No	semi open. Edges are filling in with maple and aspen sapings. Stand was harvested as sale #014-10-01, "Check Cruise Hardwoods". Completed 07/03/2014. Aspen was cut along stand edges.
74	6225 - Bog	35.2	No	Open leatherleaf bog - dead standing small diam snags. Seasonally ponded. Soil Dawson, Greenwood, Loxely
78	6225 - Bog	6.4	No	open leatherleaf bog. Ponded soil Kinross muck