



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42085

Entry Year 2025

Acreage: 2,047

County Luce

Management Area: Grand Marais Moraine Complex

Stand Examiner: Amy Livermore

Legal Description:

T47N R10W Sections 5, 6, 7, 8, 16, 17 & 18

Identified Planning Goals:

Maintain or improve the forest health, productivity, and diversity of the area through proper management. Timber management, wildlife habitat, and recreational opportunities such as hunting and snowmobiling are the main uses of the compartment.

Soil and topography:

The majority of the compartment is upland with rolling topography and small hills. Soils typical of the upland areas include Kalkaska sand, Dillingham-Kalkaska complex, and Wallace sand. The forest cover types on the upland soils are primarily northern hardwoods and aspen with some red pine and white spruce plantations. The lowland, swamp areas are found mainly in the eastern portion of the compartment. These areas are level and are comprised of wet soils such as Carbondale, Lupton, and Tawas Mucks. Forest cover types on these lowland soils include cedar, swamp conifers, and some lowland aspen. Several small, shallow lakes are found within the compartment.

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

The compartment has a mix of ownership within its boundaries. Approximately one-half of the land within the compartment is under State of Michigan ownership. The Forest Land Group and The Nature Conservancy are other major land owners. There are also several small private land owners located throughout the entire compartment. State land borders most of the compartment to the west, north, and south with Forest Land Group and State of Michigan land to the east. There is a small amount of development in the compartment consisting of a private resort (Halfway Lake Resort), a restaurant (Wolf Inn) and a small gas station. A high percentage of the small private land holdings within the boundaries are permanent residences. The remaining small private parcels are used as hunting camps and seasonal residences. Land use in the compartment entails various forms of outdoor recreation including hunting, fishing, snowmobiling, wildlife viewing, ORV use and hiking. Timber production also is a major use of the compartment.

Unique Natural Features:

MNFI has identified a loon on Halfway Lake. Potential in the compartment for merlin, yellow rail, American bittern, grey wolf, and several critical marsh/bog plants.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

ELSMU-Cory Kovacs

This compartment contains the designated Type 1 trout stream section of Auger Creek. The predicted mean July temperature for this section of Auger Creek is 61.2°F. There are wild brook trout present in this section of the creek as good groundwater input is present. Beaver activity is present here. In riparian areas along Auger Creek susceptible to aspen regeneration, 300-ft buffers are recommended. For areas not susceptible to aspen regeneration, 100-ft plus 5-ft per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 85- This compartment is located in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. Vegetative diversity of this compartment is excellent with aspen, swamp conifers, mixed deciduous, and northern hardwoods comprising most of the compartment. Current species composition appears to represent an increase in aspen and upland hardwood habitats and a decrease in pine habitats from what existed during presettlement times.

Mast producing species and a conifer component will be maintained in hardwood and aspen managed stands to enhance food availability and structural and species diversity. Hemlock and large white pine will be retained post-harvest and

cedar canopies will not be disturbed to preserve thermal capabilities of those stands. Nest and den trees, snags, and woody debris will be maintained in stands where they exist. Wildlife featured species in the management area include black burnian and black throated blue warbler, spruce and sharp-tailed grouse, snowshoe hare, black bear, American marten, piping plover, Kirtland's warbler, black-backed woodpecker and red crossbill. In addition, white-tailed deer, pileated woodpecker, and ruffed grouse are important species in this area.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. No active sand/gravel pits are known to exist in the area. There appears to be some potential for sand (and perhaps minor amounts of gravel) within the compartment on the uplands (primarily the western half), but the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much economic value beyond limited use by the county road commission, logging companies, or DNR for local road maintenance. No current State mineral leasing activity exists in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

The compartment is located approximately 12 miles north and west of Newberry along County Road 407. Access to the compartment can be gained by various county maintained roads, both year round and seasonal. County Roads 407 and 505 run north and south through the compartment while County Roads 415 and 422 run westerly from County Road 407. Several two track woods roads provide access to most of the upland areas. The very eastern portion of the compartment has limited vehicle access due to private land and lowland areas.

Survey Needs:

Corner establishment - T47N R10W Sections 7 and 8, N1/16 common to both sections. T47N R10W Section 16 - N1/16 corner.

Recreational Facilities and Opportunities:

The Silver Creek ORV Trail runs through the southwest portion of the compartment, through stands 51 and 63. Do not skid along the trail, and keep the trail clear of logging slash and debris. If trail marker trees must be cut, please work with trails analyst or Rec Spec to place carsonite posts with trail markers. The Pine Stump Snowmobile Trail, Trail 498, follows County Road 415 during the winter months. Other recreational opportunities would include hunting, fishing, hiking, and wildlife viewing.

Fire Protection:

Potential for large fire runs may be low, because of the hardwood fuel types and scattered Red Pine plantations. Upland ground and network of roads are favorable for fire equipment access. Private property risk would be low.

Additional Compartment Information:

The following reports from the Inventory are attached:

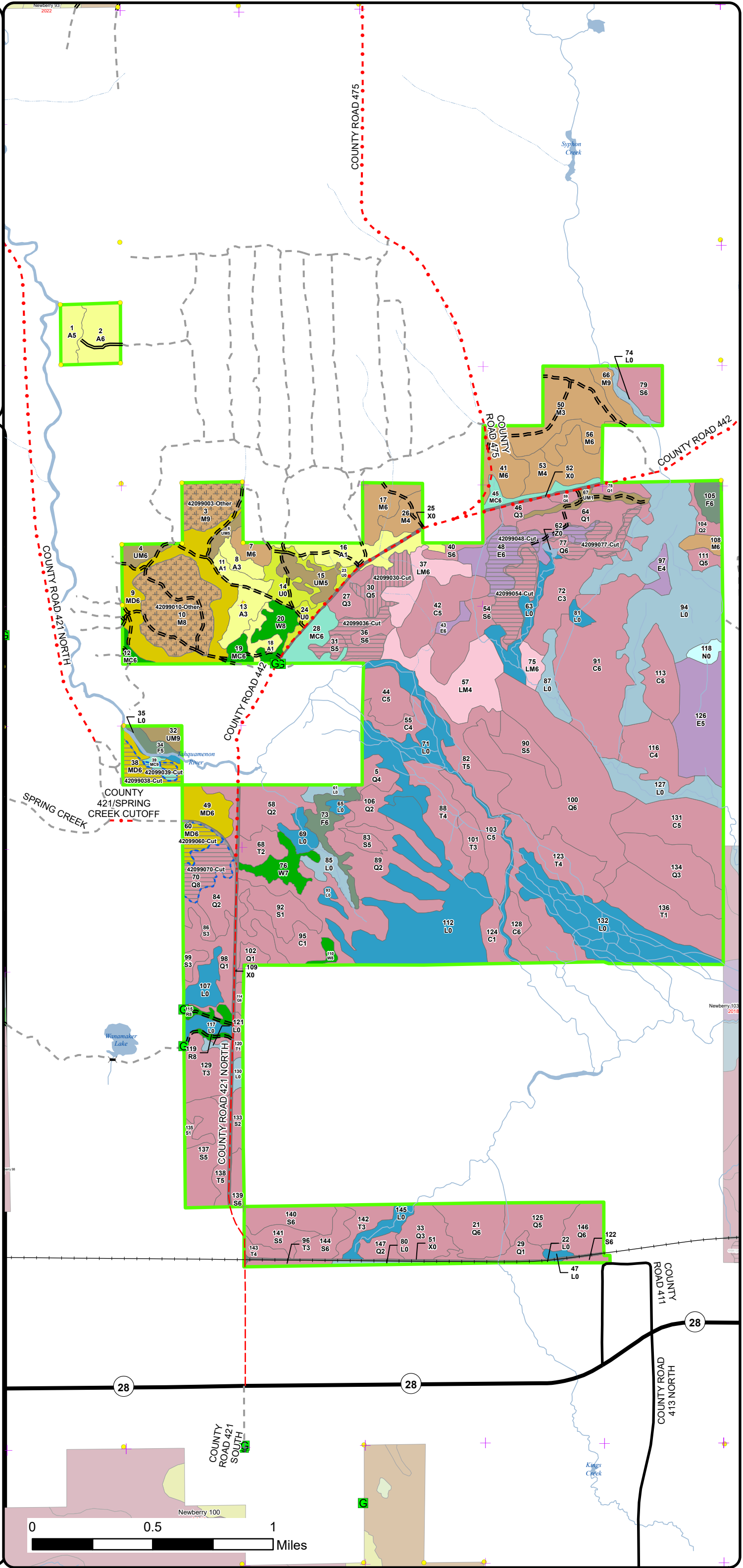
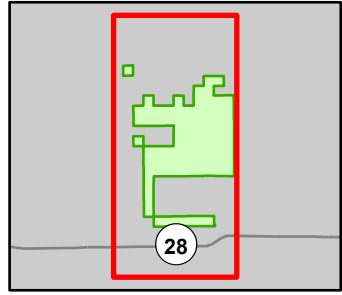
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

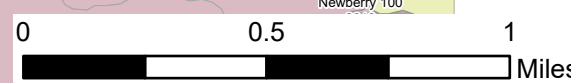
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 42099
 T46N R12W Sections 10, 12-15,
 22-24, 27, 35, 36
 County: Luce
 Unit: Newberry
 Mgmt Area: Seney Lake Plain
 YOE: 2025
 Acres: 3220.8 GIS Calculated
 Examiner: Amy Livermore
 Map Revised: 05/21/2024
 Map Phase: Post-Maps

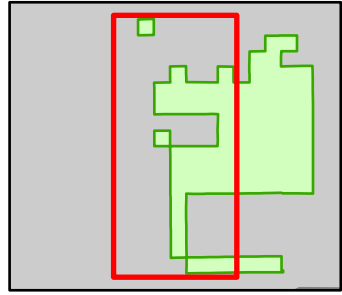


- ⊕ Remonumented Section Corners
- Survey Grade Corners
- ⊠ Gate
- ⊗ Bridges
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Active Railroads
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- - - Counties
- ⬜ Compartment Boundary
- ⬜ Treatments with Site Conditions
- ⬜ Other Treatment - See Comments
- ⬜ Clearcut (w/Reserves)
- ⬜ Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

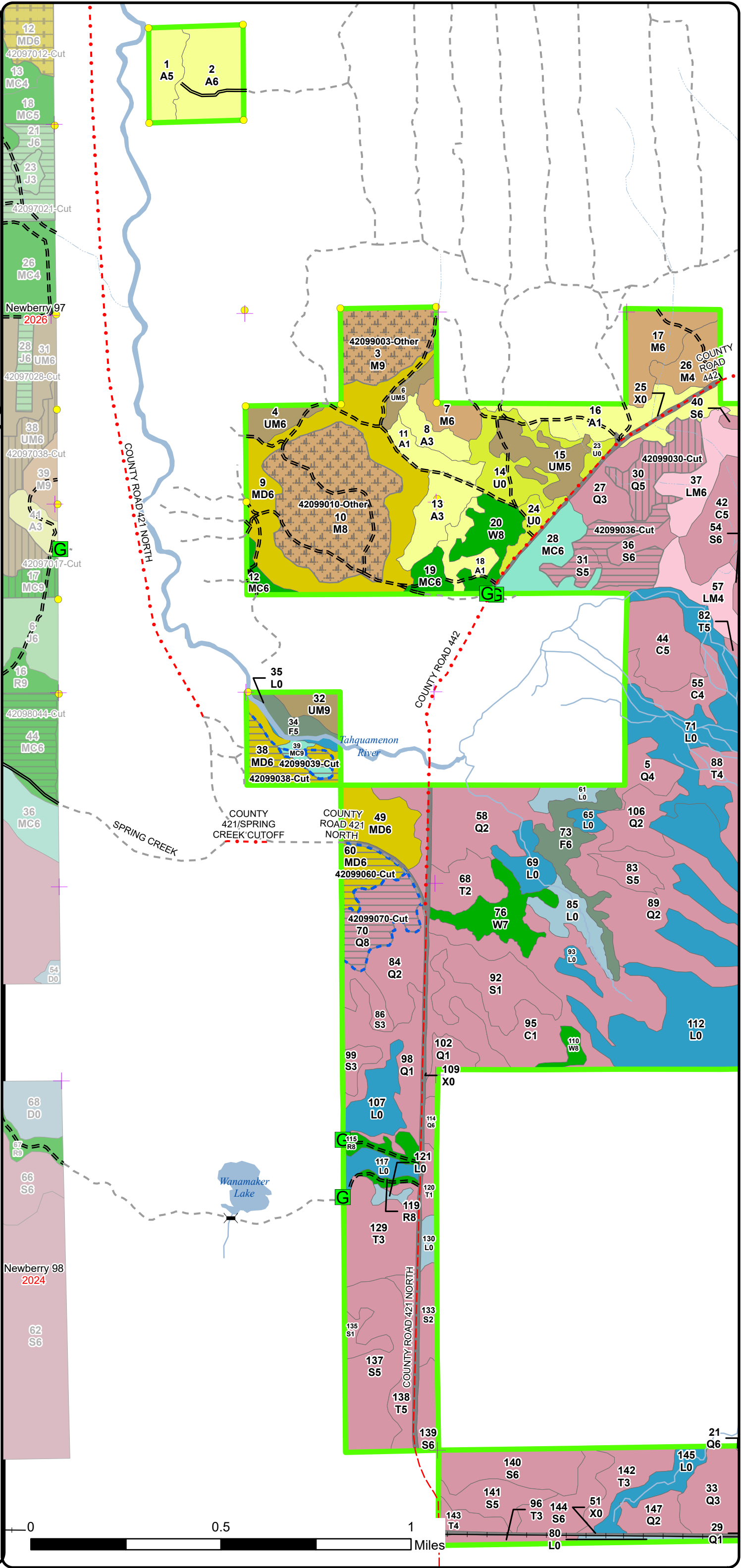


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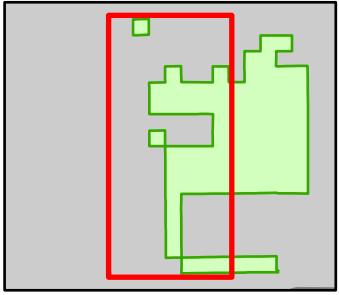


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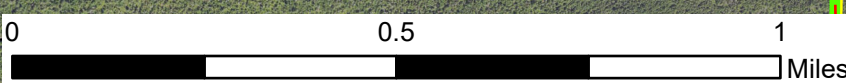
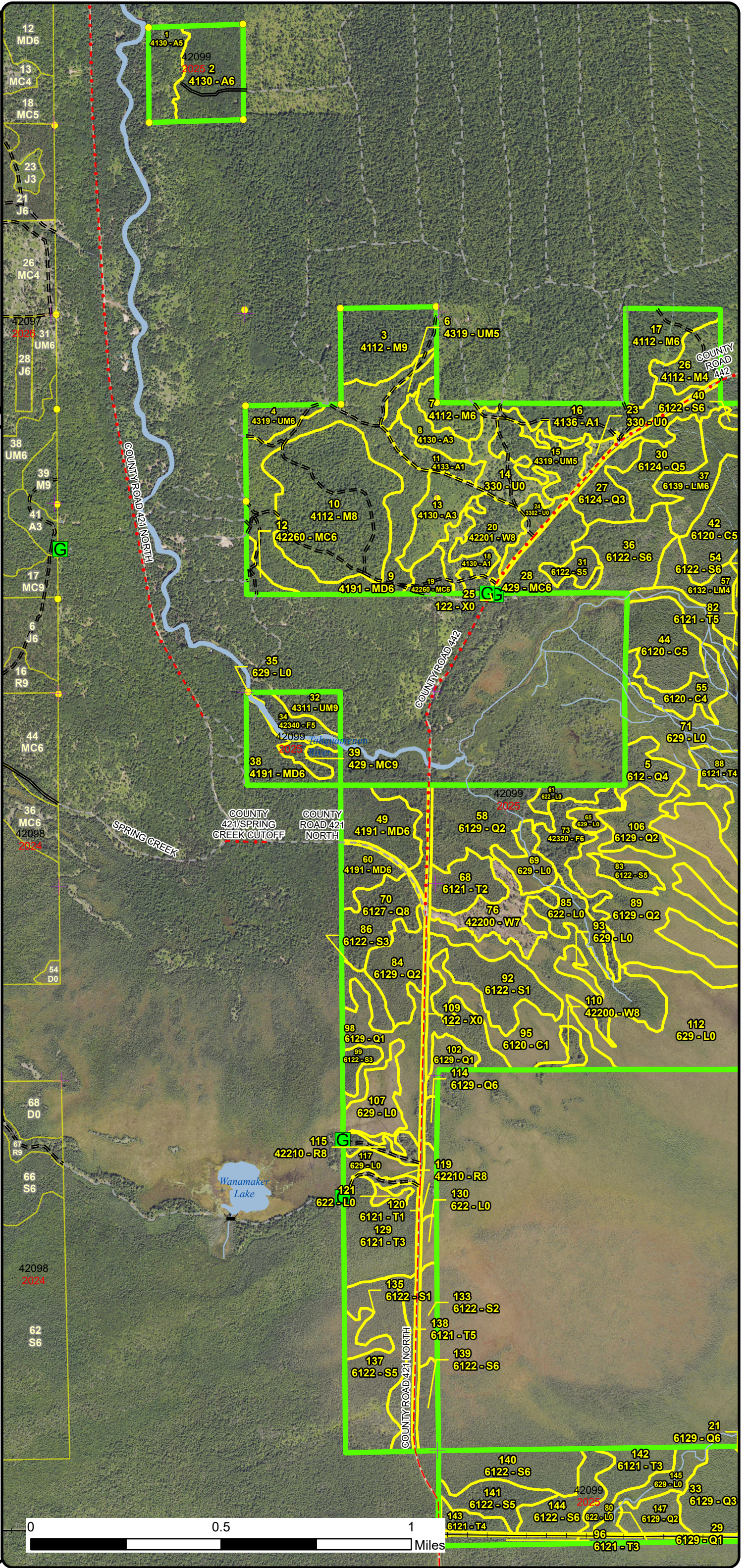


Stand Boundary Map

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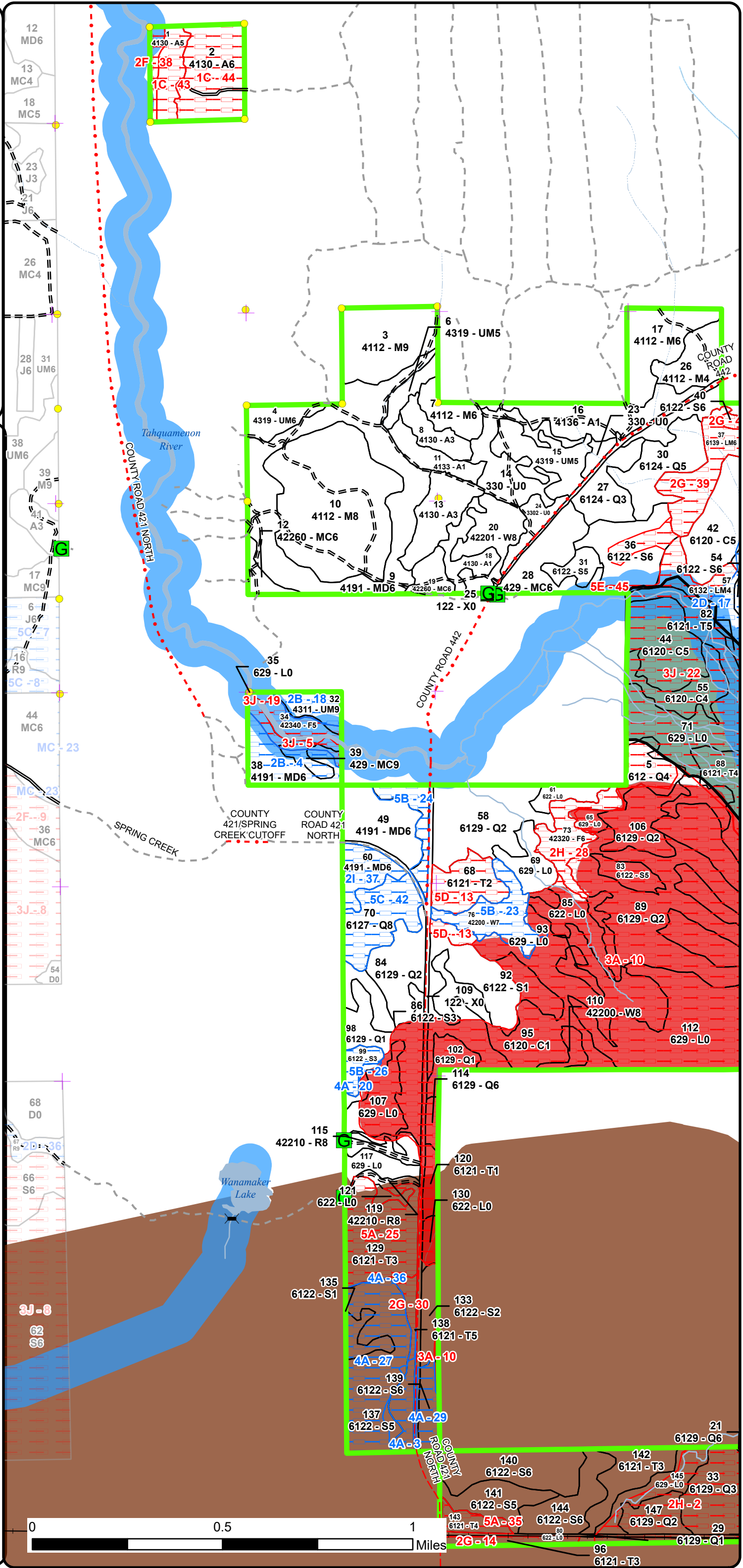
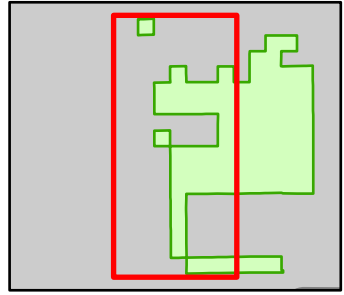


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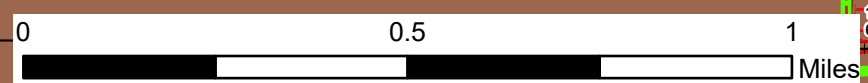


Special Conservation Areas & Site Conditions Map

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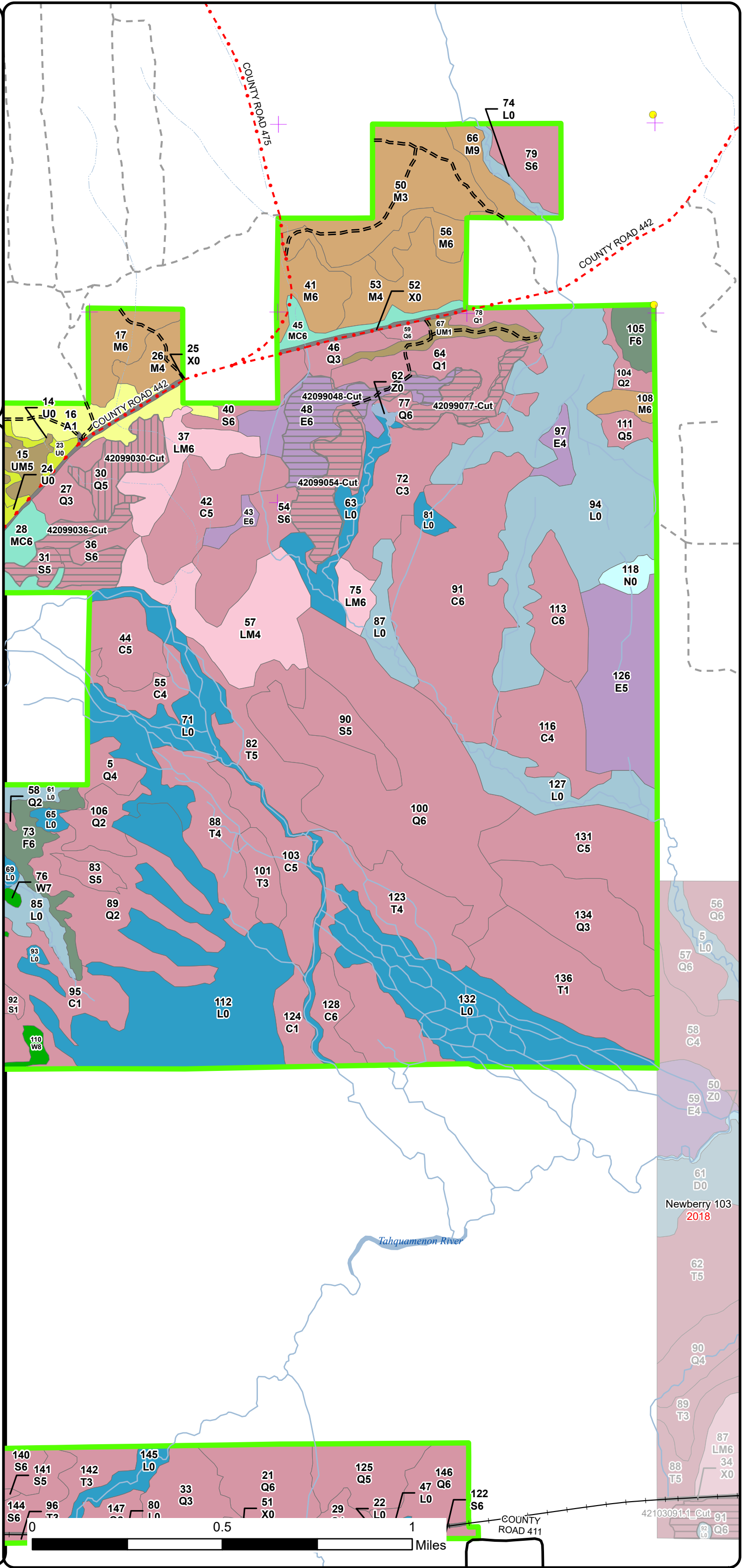
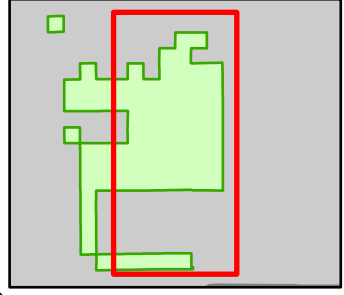


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- SCA
- Available w/ Constraints
- Unavailable
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 2I: Survey needed
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Available w/ Constraints
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- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Vernal Pool

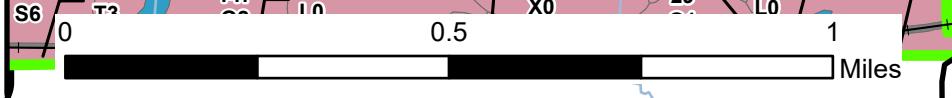


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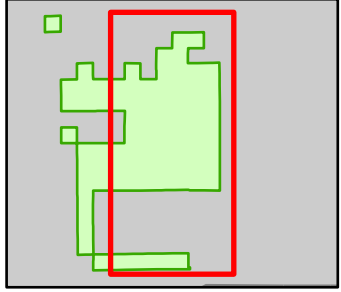


COUNTY ROAD 411

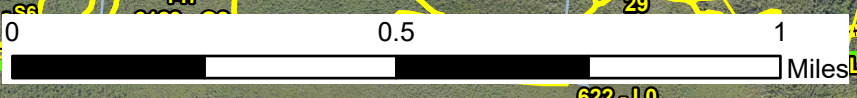
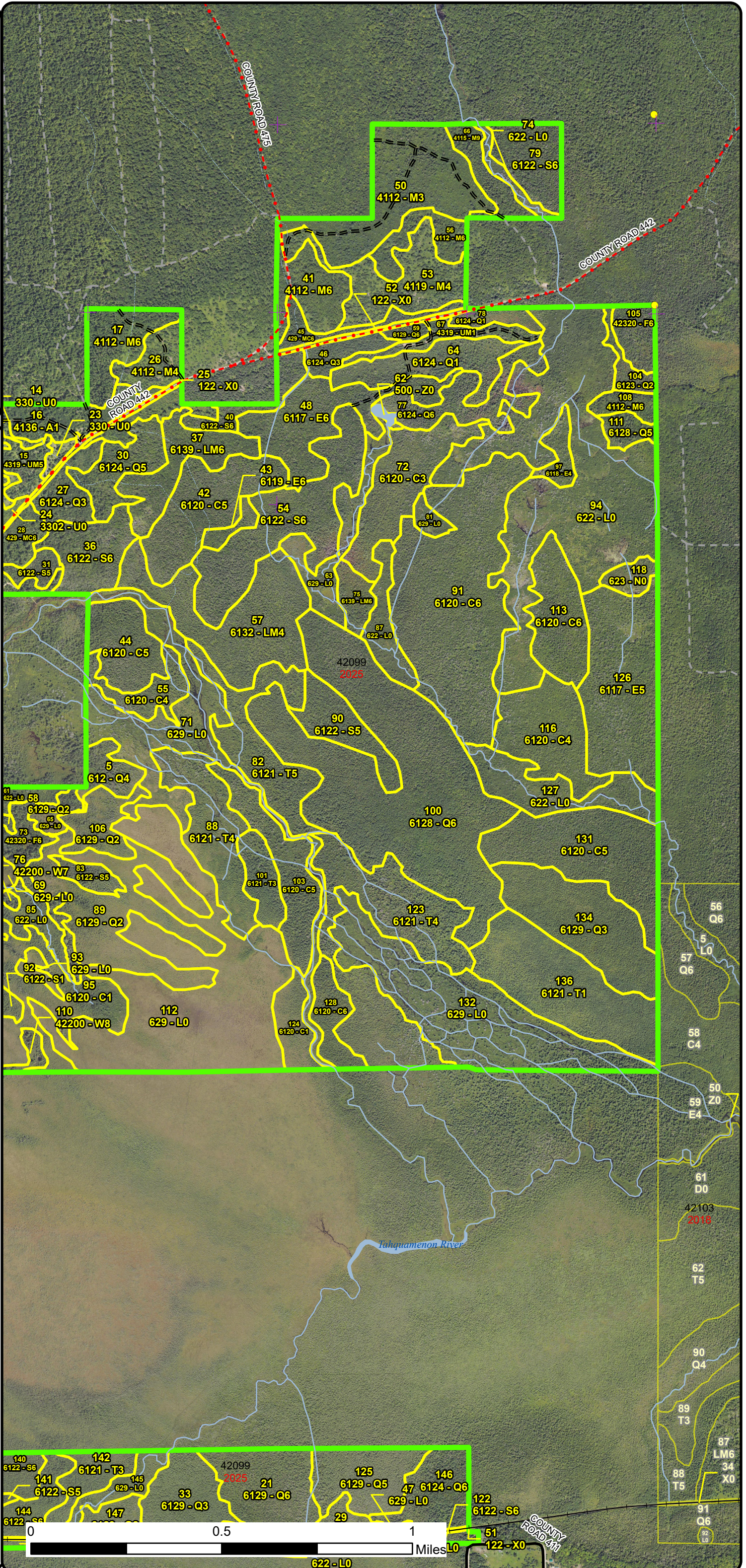
Newberry 103
2018

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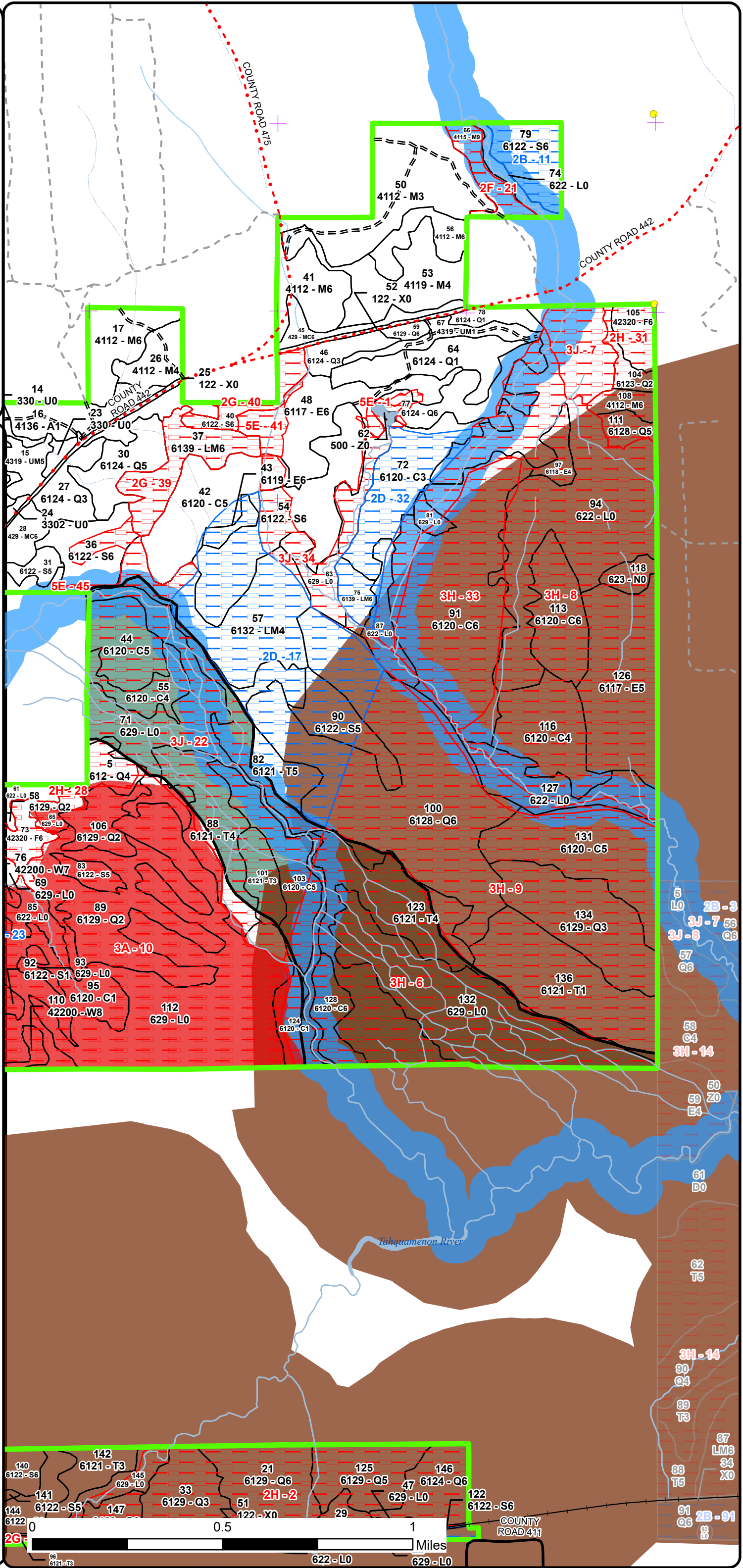
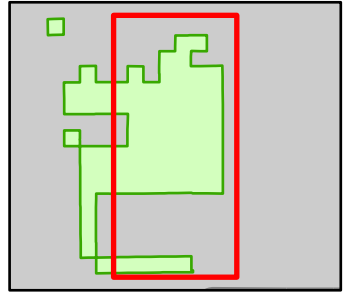


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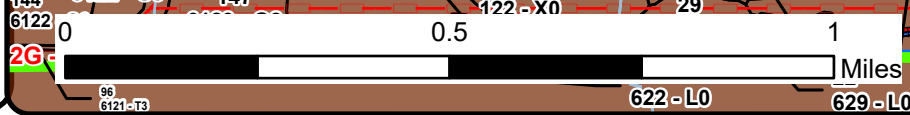


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- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Vernal Pool



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 85

Year of Entry 2025

Amy Livermore : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	126	93	25	112	40	104	0	6	34	0	0	0	0	0	0	0	0	540
Bog	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Cedar	0	0	0	0	0	0	0	0	0	0	20	26	0	199	0	0	0	0	244
Hemlock	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Aspen/Balsam Poplar	0	23	0	17	0	0	15	0	0	0	0	0	0	0	0	0	0	0	55
Lowland Conifers	0	19	0	0	15	0	0	0	0	8	128	48	0	12	0	0	0	0	230
Lowland Deciduous	0	19	0	0	0	0	0	0	27	33	18	0	0	0	0	0	0	0	97
Lowland Shrub	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Lowland Spruce/Fir	0	0	0	0	0	0	11	0	16	0	53	0	0	0	0	0	0	0	80
Marsh	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Mixed Upland Deciduous	0	41	74	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	151
Northern Hardwood	0	0	0	10	14	0	0	0	0	0	227	13	0	0	0	0	0	0	264
Red Pine	0	0	0	0	0	0	0	0	103	0	0	0	0	0	0	0	0	0	103
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14
Upland Spruce/Fir	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	20
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	28
Total	210	228	167	52	141	40	130	20	152	75	482	117	29	211	0	0	0	0	2051



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 85
Total Compartment Acres: 2,047

Commercial Harvest - 204
 Harvests with Site Condition - 191
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	129	0	0	0	6	0	0	0	0	136
Cedar	0	0	26	0	0	0	0	0	0	26
Lowland Conifers	0	0	5	0	48	0	0	0	0	53
Lowland Deciduous	60	0	0	0	0	0	0	0	0	60
Lowland Spruce/Fir	49	0	0	0	0	0	0	0	0	49
Mixed Upland Deciduous	33	0	0	0	0	0	0	0	0	33
Northern Hardwood	0	16	0	0	8	0	0	0	0	24
Upland Spruce/Fir	16	0	0	0	0	0	0	0	0	16
Total	287	16	31	0	62	0	0	0	0	395

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	395	0	0	0	0	0	32	0	0	427
Next Step	0	58	29	0	0	115	424	0	0	626
Total	395	58	29	0	0	115	456	0	0	1053



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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:

15	42085015-Cut	39.5	4139 - Aspen, Mixed Deciduous	Sawtimber Well	57	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with 3-5% patch retention. The retention should be in the wet areas of the stand. Leave mature aspen and any size conifers in the red line. Protect some sub merchantable conifer clusters in the understory.
Specs:

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

Acceptable aspen, black spruce, balsam fir, red maple, yellow birch
Regen:

Other Include drumming log spec.
Comment: Snowshoe hare brush pile needed east side of stand.

Site Condition

Proposed Start Date: 10/1 /2024

17	42085017-Cut	60.8	4136 - Aspen, Mixed Conifer	Poletimber Well	56		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with patch retention. Put the retention around areas that have lots of juneberry in the understory. Leave diversity and large diameter aspen in the red line where possible.
Specs:

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

Acceptable aspen, red maple, white pine, balsam fir, spruce, paper birch
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2029

21	42085021-Cut	8.6	6122 - Black Spruce	Poletimber Medium	93	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
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Prescription Clearcut with no retention due to small size.
Specs:

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

Acceptable black spruce, balsam fir, white pine, paper birch, cedar
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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28	42085028-Cut	5.7	6122 - Black Spruce	Poetimber Well	91	111-140	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
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Prescription Clearcut. No retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Spruce

Regen:

Other Put a snowshoe hare brush pile between this stand and stand 22.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

30	42085030-Cut	25.7	6120 - Lowland Cedar	Sawtimber Well	105	141-170	Harvest	Strip/Patch/Gap Cut (Femelschlag)	6120 - Lowland Cedar	Even-Aged	No
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Prescription Strip cut with thinning. The treatment details will mimic phase 2 of the MTU cedar research.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable cedar, aspen, paper birch

Regen:

Other Treatment design will be based on MTU Cedar Research project. Monitor and follow up based on research recommendations.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

41	42085041-Cut	22.9	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	84	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription Clearcut with pocket retention. Leave all yellow birch over 15". Leave all hemlock and white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable red maple, balsam fir, yellow birch, black ash, cedar

Regen:

Other

Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2024

42	42085042-Cut	7.8	6122 - Black Spruce	Poetimber Well	93	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
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Prescription Clearcut. No retention due to small size. Leave all white pine 5" and under.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable black spruce, white pine, balsam fir

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
44 42085044-Cut	47.6	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	103	141-170	Harvest	Shelterwood with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Shelterwood with retention. Leave all hemlock. Leave white pine over 20". Leave a retention pocket of high density cedar.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> cedar, red maple, yellow birch, black spruce, hemlock, balsam fir</p> <p><u>Other Comment:</u> Acreage will likely decrease</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
53 42085053-Cut	10.1	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	84	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with pocket retention. Leave all yellow birch over 15". Leave all hemlock and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red maple, cedar, aspen, yellow birch, balsam fir, spruce, ash</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
56 42085056-Cut	6.4	4136 - Aspen, Mixed Conifer	Sawtimber Well	70	111-140	Harvest	Shelterwood with Retention	413 - Aspen	Two-Aged	No
<p><u>Prescription</u> Cut all aspen and balsam fir. Thin red maple, spruce and white pine to achieve 50-70 BA. Leave white pine over 18".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, red maple, spruce, balsam fir, white pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
66 42085066-Cut	4.9	4116 - Mixed N. Hardwood - Aspen	Poetimber Well	92	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Cut all aspen. Cut all balsam. Cut all deteriorating cherry. Lastly thin red maple to achieve 50-70 BA.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> red maple, aspen, balsam fir, black cherry										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2024										
68 42085068-Monitor	31.5	310 - Herbaceous Openland	Nonstocked	0	Immature	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Monitor for artificial regeneration										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> red pine										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2025										
80 42085080-Cut	28.8	4130 - Aspen	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Clearcut with retention. Retention is built into treatment shape and located at the northern part of the stand to facilitate replanting efforts. Cut										
<u>Specs:</u> stems down to 1" dbh.										
<u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Roller Chopping; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial										
<u>Treatments:</u> Regen(3yr); Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Pesticide, Skidder - Site Prep										
<u>Acceptable</u> red pine										
<u>Regen:</u>										
<u>Other</u> Plantation acres from stand 62 to the west are being transferred to this stand.										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2024										
84 42085084-Cut	20.2	4199 - Other Mixed Upland Deciduous	Poetimber Well	97	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<u>Prescription</u> Clearcut with reserves. Retain 3-5 healthy white birch per acre. Other retention to be patch retention, up to 5% of stand acreage. Leave a										
<u>Specs:</u> conifer component in the retention patches. Leave all hemlock and white pine and leave diversity in the red line when possible.										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> aspen, paper birch, red maple, balsam, spruce, white pine										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u> Denied Access										
Proposed Start Date: 10/1 /2024										



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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
85 42085085-Cut	12.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	97	141-170	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Retention will be in the eastern ridge. Only a skid trail through the ridge will be cut to access stand 101. No hemlock is to be cut outside of the skid trail on the ridge. Hemlock can only be cut in the ridge when necessary for access.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red maple, cedar, hemlock, black spruce, balsam fir, paper birch, quaking aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention is built into treatment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Denied Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
87 42085087-Cut	10.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 60-80. Focus on multiple stemmed trees and those with top dieback. Leave all yellow birch. Cut any live beech. Leave some trees with forks 2/3 of the way up.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red maple, sugar maple, yellow birch, balsam fir</p> <p><u>Regen:</u></p> <p><u>Other</u> Treat with C6 stand 8</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
91 42085091-Cut	5.1	6129 - Mixed Coniferous Lowland Forest	Poetimber Medium	81	51-80	Harvest	Strip/Patch/Gap Cut (Femelschlag)	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Strip cut with thinning. The treatment details will mimic phase 2 of the MTU cedar research.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> black spruce, balsam fir, red maple, cedar, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Denied Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
94 42085094-Cut	26.8	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	79	51-80	Harvest	Clearcut with Retention	6119 - Mixed Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with 3-5% patch retention. Leave all white pine and one large birch per 2 acres.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red maple, aspen, black spruce, white pine, paper birch</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Denied Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
95 42085095-Cut	26.8	6122 - Black Spruce	Poletimber Well	93	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Retention to be in pockets due to wet soils and potential for blowdown of individual trees. Retention not to exceed 5% total stand acreage. Leave all white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> black spruce, cedar, red maple, balsam fir</p> <p><u>Other Comment:</u> Acreage may vary based on ground conditions.</p> <p><u>Site Condition</u> Denied Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
62 42085100-Cut	16.2	42310 - Planted Spruce	Poletimber Well	61	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut. Leave all white pine over 15" and red maple over 10"</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, spruce, red maple, white pine, balsam fir</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
101 42085101-Cut	8.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	97	111-140	Harvest	Shelterwood	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 30-40 BA. Cut all aspen. Cut any deteriorating birch. Leave retention in the edges where the timber type changes. Leave all hemlock and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red maple, sugar maple, balsam fir, white pine, paper birch</p> <p><u>Other Comment:</u> Retention is built into the treatment.</p> <p><u>Site Condition</u> Denied Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment
Acreage Proposed: 426.9

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 85
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2B	5C	1C	2A	3A	3G	3J	5E
540	513	11	16	Aspen		11				7		8
23	23	0	0	Bog								
244	244	0	0	Cedar								
16	16	0	0	Hemlock								
32	31	0	1	Herbaceous Openland								1
55	23	0	32	Lowland Aspen/Balsam Poplar			32					
228	36	175	17	Lowland Conifers	48	128		17				
97	17	33	46	Lowland Deciduous	33		9	27			9	2
64	64	0	0	Lowland Shrub								
80	53	0	27	Lowland Spruce/Fir				27				0
60	35	0	25	Marsh					25			
150	110	0	40	Mixed Upland Deciduous				33				7
263	244	11	8	Northern Hardwood	11			8				
103	103	0	0	Red Pine								
15	15	0	0	Treed Bog								
14	14	0	0	Upland Conifers								
20	20	0	0	Upland Spruce/Fir								
15	15	0	0	Urban						0		
29	0	29	0	White Pine		29						
2,047	1,576	258	212	Total Forested Acres	91	167	40	112	25	7	9	18
	77%	13%	10%	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	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 85
Year of Entry: 2025

2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 85
Year of Entry: 2025

9	Unavailable	2A: Adjacent landowner denied access	59	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2A: Adjacent landowner denied access	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2A: Adjacent landowner denied access	13	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3G: Other Influence zones - See comments	7	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Narrow stand on hillside adjacent to Co Rd 407 ROW. Between county road and private residence. No approach to the road, low volumes.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Let grow 10 years. Cut in 2033.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	119	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 85
Year of Entry: 2025

15	Unavailable	2A: Adjacent landowner denied access	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	1C: Other dept or div proc/practices	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Land is up for disposal.							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2A: Adjacent landowner denied access	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	2B: Unknown if access through adjacent landowner(s) is possible	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore : Examiner

Compartment: 85
Year of Entry: 2025

22	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3A: Conservation Values incompatible with harvest at this time	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
25	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	2B: Unknown if access through adjacent landowner(s) is possible	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	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.

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	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
1	42110 - Planted Red Pine	Sawtimber Medium	102.6	72	51-80	N/A	Stand harvested via Salvage Group Selection in 2020: Camp One Red Pine Salvage - 42-015-20. Stand had a windthrow blowdown event in winter of 2019. Red pine plantation. Planted in early 1950's (1951). Thinned as sales #033-95-01 and #41-97-02, both completed in 1997. Red pine diameters average 14 inch dbh, ranging from 8 and 9 inches up to 16-18 inches. Scattered white pine and red maple in areas. Healthy stand. Diameters getting to the point of final harvest. Thinned in 2017, Camp One Pine, #031-15. Residual at edge between ranges (~110).																																																								
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3	4110 - Sugar Maple Association	Poletimber Well	5.6	90	51-80	N/A	Shelterwood cut in 2016 as part of Broken Axe Aspen, #035-15. All spruce left; removed aspen, beech and low quality maple. 2014: Low quality hard maple. Multiple stems, maple borer damage, decline and top dieback. Open in a few spots. Large diameter aspen mixed in. Beech component is dying out due to BBD. Single stem hard maple has some better quality.																																																								
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4	4130 - Aspen	Sapling Well	7.6	6	Immature	N/A	Stand was clearcut (2" spec) in 2017, Camp One Pine (#031-15). FTP 42-885 for Rx burn, trench and plant to red pine. RX burn did not take place due to budget cuts during COVID 19. Stand was forwarded to roller chopping, trench and plant for red pine. **stand was not roller chopped. aspen and maple regeneration is advanced, well stocked. Decision was made with TMS and UM to covert this site to aspen. Red Pine acres will be moved to another location.																																																								
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5	4136 - Aspen, Mixed Conifer	Poletimber Well	4.8	44	1-50	N/A	Stand was cut in 1979. Portion of the red pine plantation that had failed and was cut for aspen management. Mix of species regenerating (aspen, maple, birch, cherry, balsam, etc). Some residual, large diameter, overstory of red pine and white pine.																																																								
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6	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	8.7	91	81-110	N/A	Stand gets wetter and diameters and BA get smaller towards the east side of the stand.																																																
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10	4134 - Aspen, Spruce/Fir	Sapling Well	19.1	5	Immature	N/A	Clearcut in 2018 as part of Broken Axe Aspen, #035-15. Conifer buffers left along CR415.																																																
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11	6120 - Lowland Cedar	Poletimber Well	20.1	95	51-80	N/A																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
12	6229 - Mixed lowland shrub	Nonstocked	2.6			No			
13	4130 - Aspen	Sapling Well	10.6	16	Immature	N/A	Stand was harvested in 2007 as sale #036-05. Good aspen regeneration with component of white birch, red maple, cherry. 10-20 ft tall.		
Canopy Species		% Cover	Size Class	DBH	Age				
Paper Birch		10	Sapling	3					
Red Maple		18	Sapling	2					
Quaking Aspen		60	Sapling	3	16				
Red Maple		2	Pole	5					
Pin Cherry		10	Sapling	2					
14	4130 - Aspen	Sapling Well	3.6	8	Immature	N/A	Harvested via Clearcut in early 2015 as part of Missing Camp Aspen, #001-14. TCR 3/20/18. All trees cut except paper birch, cedar, hemlock and white pine. Stand was originally part of sale #030-05, but was never cut.		
Canopy Species		% Cover	Size Class	DBH	Age				
Paper Birch		5	Pole/Sapling	7					
White Pine		5	Log/Pole	12					
Quaking Aspen		90	Sapling	2	8				
15	4139 - Aspen, Mixed Deciduous	Sawtimber Well	42.9	57	111-140	N/A	Pole size aspen stand with white birch, red maple, balsam, white spruce, black spruce, and white pine. Nice mixed stand, young stand. Nice regeneration. Some areas with larger diameter aspen and white birch, slightly older than rest of aspen. Areas with juneberry in the understory. Areas of lower ground in northern part and eastern part of the stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		50	Log/Pole	10	57	Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir		5	Pole	8		Black Spruce	Low	5 - 10 feet	Sapling
White Spruce		2	Log/Pole	11		White Pine	Low	Variable	Sapling
White Pine		5	Log/Pole	12		Red Maple	Medium	10 - 20 feet	Sapling
Black Spruce		5	Pole	8		Balsam Fir	Medium	Variable	Sapling
Black Cherry		3	Pole	8					
Red Maple		15	Pole/Log	9					
Paper Birch		15	Pole/Log	9					
16	110 - Low Intensity Urban	Nonstocked	5.4			No	County Road 407 and cleared ROW		
17	4136 - Aspen, Mixed Conifer	Poletimber Well	60.8	56		N/A	Pole size aspen stand with white birch, maple, black cherry, balsam, white spruce, and white pine. Some areas with larger diameter aspen and white birch. Areas with juneberry in the understory.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
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Black Cherry		2	Pole	7		Red Maple	Medium	Variable	Sapling
Balsam Fir		10	Pole	6		Balsam Fir	Medium	Variable	Sapling
Red Maple		10	Pole	7		Serviceberry (Juneberry)	Low	Variable	Sapling
White Pine		5	Pole/Log	9		Aspen (spp.)	Medium	10 - 20 feet	Sapling
Bigtooth Aspen		43	Pole/Log	8	56	Paper Birch	Low	10 - 20 feet	Sapling
Paper Birch		25	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18 6129 - Mixed Coniferous Lowland Forest Poletimber Well 118.7 91 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	8	
Red Maple	5	Pole	8	
Black Spruce	40	Pole	8	91
Northern White Cedar	40	Pole	8	
White Pine	10	Pole/Log	9	

19 6225 - Bog Nonstocked 1.9 No Small bog with beaver pond

20 6122 - Black Spruce Poletimber Well 4.0 93 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Balsam Fir	5	Pole	7	
Paper Birch	5	Pole	7	
Black Spruce	60	Pole	8	93
Northern White Cedar	15	Pole	8	
Quaking Aspen	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Black Spruce	Medium	Variable	Sapling
Northern White Cedar	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	Variable	Sapling

Low ground black spruce with cedar, red maple, white birch and aspen. Primarily black spruce, pole size. Wet.

21 6122 - Black Spruce Poletimber Medium 8.6 93 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole	11	
Black Spruce	80	Pole	8	93
Northern White Cedar	10	Pole	8	
Paper Birch	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	Low	5 - 10 feet	Sapling
Black Spruce	Medium	5 - 10 feet	Sapling

Low ground black spruce with some cedar and white pine. Occasional white birch. Stand has higher density in the southern portion of the stand. Very wet stand.

22 4130 - Aspen Sapling Well 6.0 8 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	6	
Hemlock	1	Log/Pole	11	
Paper Birch	15	Log/Pole	11	78
White Pine	7	Log	12	
Quaking Aspen	70	Sapling	2	8
Northern White Cedar	2	Pole	7	

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

Harvested via Clearcut w/ Reserves in early 2015 as part of Missing Camp Aspen, #001-14. TCR 3/20/18. All trees cut except paper birch, cedar, hemlock and white pine. Stand was part of sale #030-05 but was never cut.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
23	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	18.6	4	Immature	N/A	Clearcut in 2019 as part of Broken Axe Aspen, #035-15. Large white pine and green marked trees left.																																																											
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24	4110 - Sugar Maple Association	Sawtimber Well	2.9	92	81-110	N/A	Stand thinned in 2007 as sale #036-05. Nice hard maple sawlog stand. Good regeneration of maple, with pockets of aspen, starting to establish.																																																											
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25	6124 - Lowland Spruce-Fir	Sapling Poor	18.8	5	Immature	N/A	Harvested via Clearcut w/ Reserves in early 2018 as part of Missing Camp Aspen, #001-14. TCR 3/20/18. All trees cut except cedar, hemlock and white pine. Stand was part of sale #030-05 but was never cut.																																																											
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26	6239 - Mixed Emergent Wetland	Nonstocked	23.9			No																																																												
27	110 - Low Intensity Urban	Nonstocked	1.9			No	County Road 415 and cleared ROW																																																											
28	6122 - Black Spruce	Poletimber Well	5.7	91	111-140	N/A	Low ground black spruce with cedar, red maple, white birch and aspen. Primarily black spruce, pole size. Wet.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29	4130 - Aspen	Sapling Well	17.8	16	Immature	N/A	Stand was harvested in 2007 as sale #036-05. Good aspen regeneration with component of white birch, red maple, cherry. 10-20 ft tall.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	18	Sapling	2	
Quaking Aspen	60	Sapling	3	16
Paper Birch	10	Sapling	3	
Red Maple	2	Pole	5	
Pin Cherry	10	Sapling	2	

30	6120 - Lowland Cedar	Sawtimber Well	25.7	105	141-170	N/A	Cedar stand with a component of spruce, balsam, white birch and red maple. Good cedar regeneration throughout the stand. No deer browse problems. Regeneration of all heights, from 2 ft up to 10 ft tall. Old notes stand the stand was cut through (high graded) in the past
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	Log	12		Northern White Cedar	Medium	5 - 10 feet	Sapling
Red Maple	5	Pole	8		Balsam Fir	High	Variable	Sapling
Quaking Aspen	3	Pole/Log	9					
Balsam Fir	5	Pole	7					
Yellow Birch	5	Pole/Log	9					
Northern White Cedar	70	Log/Pole	10	105				
Black Spruce	10	Pole	8					

31	4130 - Aspen	Poletimber Well	19.1	46	81-110	N/A	Stand was harvested in 1977. Aspen stand with red maple and white birch. Nice tall aspen, large diameter for the age of the stand in some areas, up to 12 inch dbh. Stand has vernal pools and a perennial stream.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Pole	8		Maple (spp.)	High	>20 feet	Sapling
Red Maple	10	Log/Pole	10		Aspen (spp.)	Low	10 - 20 feet	Sapling
Bigtooth Aspen	10	Pole/Log	9		Black Cherry	Low	10 - 20 feet	Sapling
Quaking Aspen	65	Pole	9	46				
White Pine	4	Log/XLog	15					
Paper Birch	5	Pole	7					
Balsam Fir	3	Log	10					

32	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	14.1	105	81-110	N/A	Stand was cut in 2008 as sale #030-05. This was the only unit of the sale that got harvested. All aspen, spruce, balsam and maple removed from the stand. Retained hemlock, cedar and white pine. Stand is now a stand of mature hemlock and white pine over nice red maple, balsam, birch regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	6		Balsam Fir	Low	Variable	Sapling
Hemlock	45	Log	12	105	Cherry (spp.)	Low	5 - 10 feet	Sapling
White Pine	25	Log/XLog	17		Paper Birch	Low	5 - 10 feet	Sapling
Red Maple	5	Pole	7		Red Maple	High	Variable	Sapling
Northern White Cedar	15	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
33	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	6.0	95	51-80	N/A	Harvested via Shelterwood w/ Reserves in early 2015 as part of Missing Camp Aspen, #001-14. TCR 3/20/18.																																															
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34	6122 - Black Spruce	Poletimber Medium	11.2	57	1-50	N/A																																																
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35	42350 - Upland Hemlock	Sawtimber Well	16.0	105	111-140	N/A	Stand was cut in 1995. Sale was not complete, but was closed. Some areas are thick to mature hemlock mixed with maple and others are more open with good regeneration of maple, hemlock and balsam.																																															
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36	4110 - Sugar Maple Association	Sawtimber Well	56.0	92	81-110	N/A	Stand thinned in 2007 as sale #036-05. Nice hard maple sawlog stand. Good regeneration of maple, with pockets of aspen, starting to establish.																																															
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37	6124 - Lowland Spruce-Fir	Sapling Well	14.7	36	1-50	N/A	Stand was harvested in 1987 as sale #087-84. Regeneration is a mix of lowland species. Black spruce, balsam, cedar, tamarack, occasional white pine, red maple and white birch.																																															
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38	6229 - Mixed lowland shrub	Nonstocked	47.1			No	Headwaters of Auger Creek																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39 4116 - Mixed N. Hardwood - Aspen Sapling Well 9.7 25 Immature N/A Stand was harvested in 1998 as sale #38-95. Real mix of regeneration. Aspen, maple, cherry, white birch, some spruce, balsam and white pine

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling/Pole	3	
White Pine	5	Sapling	2	
Paper Birch	10	Sapling	2	
Red Maple	50	Sapling/Pole	4	25
Quaking Aspen	20	Sapling/Pole	4	
Black Cherry	10	Sapling	2	

40 4116 - Mixed N. Hardwood - Aspen Poletimber Well 13.6 37 1-50 N/A Stand harvested in 1986. Red maple, sugar maple, aspen, cherry, balsam, spruce regeneration. Very thick stand, beginning to transition from a sapling stand to a pole size stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Sapling/Pole	4		White Spruce	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole/Sapling	7		Balsam Fir	Low	Variable	Sapling
Red Maple	40	Pole/Sapling	5	37	Maple (spp.)	High	Variable	Sapling
Balsam Fir	10	Sapling/Pole	4					
White Spruce	5	Sapling/Pole	3					
Quaking Aspen	20	Pole/Sapling	5					
Sugar Maple	15	Pole/Sapling	5					

41 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 22.9 84 81-110 N/A Lowland red maple, large diameter aspen and balsam poplar, cedar and some black spruce. Wet ground. Thick understory. Scattered large diameter white pine, some black ash in pockets. A few yellow birch

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	10	Log/Pole	10		Red Maple	Low	Variable	Sapling
Black Spruce	10	Pole	8		Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	25	Log/Pole	11		Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar	17	Pole/Log	9		Black Ash	Low	10 - 20 feet	Sapling
Red Maple	34	Pole/Log	9	84	Northern White Cedar	Medium	Variable	Sapling
Black Ash	2	Pole	7					
Yellow Birch	2	Pole/Log	9					

42 6122 - Black Spruce Poletimber Well 7.8 93 51-80 N/A Low ground pocket of black spruce with some red maple and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	90	Pole	7	93	Red Maple	Low	5 - 10 feet	Sapling
White Pine	5	Pole	8		Black Spruce	Medium	Variable	Sapling
Red Maple	5	Pole	7					

43 6239 - Mixed Emergent Wetland Nonstocked 35.8 No Burned as part of the Sleeper Lake Fire



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 47.6 103 141-170 N/A Mixed stand of cedar with black spruce, balsam, some hemlock, and red maple. Wet stand. Pockets of thick cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	45	Pole/Log	9	103
Balsam Fir	5	Pole	8	
Hemlock	15	Log/Pole	13	
White Pine	5	Log/XLog	17	
Red Maple	20	Log	11	
Yellow Birch	5	Log	10	
Black Spruce	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Medium	5 - 10 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	Low	Variable	Sapling

45 6112 - Lowland Aspen Sapling Well 22.7 6 1-50 N/A Harvested via Clearcut in early 2017 as part of Missing Camp Aspen, #001-14. TCR 3/20/18. All trees cut except cedar, hemlock and white pine. Stand was originally part of sale #030-05, but was never cut.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	
Balsam Fir	5	Sapling	1	
Northern White Cedar	10	Pole/Sapling	6	80
Quaking Aspen	80	Sapling	1	6

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Low	Variable	Sapling

46 4130 - Aspen Sapling Well 48.9 6 Immature N/A Harvested via Clearcut w/ Reserves in 2017 as part of Barrett Lake Mix, #032-15. TCR 10/9/17. Patch retention inclusions. ORV trail runs through the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Sapling	2	6
Balsam Fir	8	Sapling	3	
Pin Cherry	3	Sapling	2	
White Pine	2	Sapling	2	
Red Maple	5	Sapling	3	
Beech	2	Sapling	2	

47 4139 - Aspen, Mixed Deciduous Poletimber Well 40.6 36 51-80 N/A Stand harvested in 1987 #15-85 No Name Sale. Young aspen stand with white birch, red maple, white pine, cherry. Stand is transitioning from a sapling stand to a pole size stand. Scattered larger diameter white birch and maple. Large diameter white pine as well.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole	6	
White Pine	5	Log/Pole	12	
Paper Birch	15	Pole/Sap/Log	7	
Red Maple	20	Pole/Sapling	5	
Quaking Aspen	53	Pole/Sapling	5	36
Sugar Maple	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Aspen (spp.)	Medium	10 - 20 feet	Sapling
Maple (spp.)	High	10 - 20 feet	Sapling

48 6229 - Mixed lowland shrub Nonstocked 2.0 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
49	4130 - Aspen	Poletimber Well	1.8	36	1-50	N/A																																																														
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50	4199 - Other Mixed Upland Deciduous	Sapling Well	30.6	8	Immature	N/A	Harvested via Clearcut w/ Reserves in early 2015 as part of Missing Camp Aspen, #001-14. TCR 3/20/18. All trees cut except paper birch, hemlock and red pine. Wet drainage runs through the stand, left as retention.																																																													
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51	4110 - Sugar Maple Association	Sawtimber Well	57.2	92	81-110	N/A	Harvested via Selection Cut in 2017 as part of Barrett Lake Mix, #032-15. TCR 10/9/17.																																																													
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52	4130 - Aspen	Sapling Well	18.8	6	Immature	N/A	Harvested via Clearcut w/ Reserves in 2017 as part of Barrett Lake Mix, #032-15. TCR 10/9/17. Pocket retention inclusion.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
54	4133 - Aspen, Mixed Pine	Sapling Well	13.8	23	1-50	N/A	Stand was harvested in 1997 as sale #047-95. Aspen with red maple, balsam, white birch.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Sapling	4		White Pine		Low	< 5 feet	Pole
Quaking Aspen		55	Sapling	4	23	White Spruce		Low	< 5 feet	Sapling
Balsam Fir		5	Pole/Sapling	5		Paper Birch		Low	10 - 20 feet	Sapling
White Pine		25	Log/XLog	14	90	Balsam Fir		Low	Variable	Sapling
Paper Birch		5	Sapling	4		Red Maple		Medium	10 - 20 feet	Sapling
55	622 - Lowland Shrub	Nonstocked	1.1			No				
56	4136 - Aspen, Mixed Conifer	Sawtimber Well	6.4	70	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height
White Pine		5	Log/Pole/XLog	15		Balsam Fir	High		Variable	Sapling
White Spruce		5	Log/Pole	11		Maple (spp.)	Low		Variable	Sapling
Quaking Aspen		45	Log/Pole	10	70					
Red Maple		35	Log/Pole	11						
Balsam Fir		10	Pole	8						
57	629 - Mixed non-forested wetland	Nonstocked	1.2			No				
58	4112 - Maple, Beech, Cherry Association	Poletimber Poor	3.5	95	1-50	N/A	Red maple pole stand, with component of hemlock and some white pine along stand edges. Tall red maple poles with a few sawlog size trees. Many of the trees have top dieback. Thick balsam understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Hemlock		2	Log/Pole	12		Maple (spp.)		High	10 - 20 feet	Sapling
Red Maple		98	Pole/Log	9	95	Balsam Fir		Low	10 - 20 feet	Sapling
59	4130 - Aspen	Sapling Well	3.7	6	Immature	N/A	Harvested via Clearcut in 2017 as part of Barrett Lake Mix, #032-15. TCR 10/9/17. Stand lies at the top of a steep slope.			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		80	Sapling	1	6					
Paper Birch		10	Sapling	1						
Red Maple		5	Sapling	1						
Black Cherry		5	Sapling	2						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
60	4130 - Aspen	Poletimber Well	69.8	37	51-80	N/A	Stand harvested in 1986. Northern portion of the stand was a separate sale (086-84), has more scattered residual. South part of the stand was originally a firewood cutting and then a free timber permit. Regeneration is a mix of species, primarily an aspen stand with maple, birch, cherry, balsam, spruce and white pine. Abandoned road into the stand is grown closed with balsam and white pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		9	Pole	5		Maple (spp.)		
White Pine		5	Pole/Sapling	5		Cherry (spp.)		
Paper Birch		2	Pole	5		Serviceberry (Juneberry)		
White Spruce		2	Pole	6		Balsam Fir		
Balsam Fir		10	Pole	7		Density		
Quaking Aspen		62	Pole	6	37	Avg. Height		
Red Maple		10	Pole/Sapling	5		Size		
61	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.2	103	81-110	N/A	Stand thinned in 2008 as sale #037-05. Mainly red maple with balsam and white pine component. Some black cherry.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		5	Pole	9		Balsam Fir		
White Pine		8	Log/XLog	16		Maple (spp.)		
Red Maple		80	Log	12	103	Density		
Balsam Fir		7	Pole	8		Avg. Height		
						Size		
62	42310 - Planted Spruce	Poletimber Well	19.7	61	51-80	N/A	Planted in 1962. Mainly spruce with a minor component of aspen and red maple throughout. Scattered white pine as well. Much of the spruce is small diameter still. 3-4 sticks merchantable in many areas, some pockets of shorter spruce and even submerchantable spruce. 9/2017: portion of spruce plantation left as travel corridor when adjacent stand was cut in 2017.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		10	Pole	9		Balsam Fir		
White Spruce		80	Pole/Sapling	7	61	Red Maple		
White Pine		5	Log/Pole	12		White Spruce		
Red Maple		5	Pole	8		Density		
						Avg. Height		
						Size		
63	4112 - Maple, Beech, Cherry Association	Poletimber Medium	11.2	90	51-80	N/A	12/13/2018: Harvested via Selection cut in 2017 as part of Barrett Lake Mix, #032-15. TCR 10/9/17. Narrow stand of red maple with black cherry and large diameter aspen. Better quality is in the southern portion of the stand. Thick balsam understory throughout. Scattered hard maple. ORV trail runs through the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		88	Pole/Log	9	90	White Pine		
Quaking Aspen		5	Pole/Log	9		Balsam Fir		
Black Cherry		7	Pole	8		Red Maple		
						Density		
						Avg. Height		
						Size		
64	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	32.4	15	1-50	N/A	Stand harvested in 2008 as sale #037-05. Regenerating nicely to aspen, red maple, pin cherry primarily. Skid trails and roads are filling in with white pine as well, 1-2 ft tall. Thick regeneration. Residual mature white pine mainly in the western half of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		23	Log	14	100			
Balsam Fir		2	Sapling	1				
Red Maple		20	Sapling	2				
Quaking Aspen		35	Sapling	2	15			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
65	42200 - Natural White Pine	Sawtimber Medium	28.5	115	51-80	N/A	Stand was harvested via shelterwood in 2009 as sale #029-05. Red maple, aspen, white birch, beech, spruce, balsam was removed. Stand has good regeneration of maple, cherry, aspen and some white pine.																																															
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66	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	4.9	92	81-110	N/A	Small diameter red maple with large diameter aspen. Balsam and cherry. Quality decreases in northern portion of the stand. Aspen and cherry are showing decline and starting to die. Narrow stand along Co Rd 407. Hilly in southern end.																																															
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67	4113 - R.Maple, Conifer	Sawtimber Medium	4.0	103	51-80	N/A	Stand thinned in 2008 as sale #037-05. Red maple with balsam, spruce and cherry. Some large aspen retained along the road.																																															
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68	310 - Herbaceous Openland	Nonstocked	22.4	0	Immature	4211 - Planted Red Pine	Site planted with 905 TPA red pine on 5/7/2022. 9/10/21 - Site prep sprayed. Report attached. Fall 2020 - Stand roller chopped and trenched, plant in 2021. Originally part of a spruce plantation. Cut in 2017 as part of County Road 422 SBW (# 002-16). ***Cultivation treatment sequence changed. Stand will be trenched in 2020, site prep sprayed in 2021, and planted in 2022. This will follow newly implemented statewide sequence for red pine cultivation treatments.																																															
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69	4130 - Aspen	Sapling Poor	17.8	7	Immature	N/A	Originally part of a spruce plantation that failed. Cut in 2017 as part of County Road 422 SBW (# 002-16).																																															
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70	6224 - Treed Bog	Nonstocked	3.5			No																																																



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71	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	10.2	7	Immature	N/A	Originally part of a spruce plantation. Cut in 2017 as part of County Road 422 SBW (# 002-16). MO for natural regeneration, with a backup of planting to RP if needed. Regen Check - 11/5/2019: Moderate stocking of red maple and aspen saplings throughout with cherry, spruce, balsam and white pine in association. Optional next steps (backup plan) was to trench and plant areas with inadequate stocking; Areas not found in survey. Re-evaluate upon next inventory cycle. 5/8/23 - Full stocking of red maple, aspen, cherry, balsam fir and white pine. Leave stand as is.																																																						
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72	4139 - Aspen, Mixed Deciduous	Sapling Well	45.2	15	Immature	N/A	Stand was harvested in 2008 as sale #029-05. Regenerating to a mix of aspen, maple, cherry, balsam and white birch. Residual white pine, spruce, cedar. Nice thick regeneration.																																																						
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73	110 - Low Intensity Urban	Nonstocked	4.7			No	County Road 407 and cleared ROW																																																						
74	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	39.8	97	51-80	N/A	Stand was thinned/shelterwood cut in 2009 as sale #029-05. Beech Bark Disease was prevalent, all beech was removed from the stand. Maple and other species were thinned. Areas of the stand are now more open due to amount of beech removed. Thick regeneration of beech, maple, and some cherry and aspen in the open areas. Some yellow birch regeneration. West of the old grade the residual BA of maple is higher and more of a balsam and maple understory.																																																						
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75	4130 - Aspen	Sapling Well	11.0	27		N/A	Stand was cut in 1996 as sale #010-95. Nice aspen regeneration with red maple. Very thick stand. Subcanopy of red maple, cherry and a few balsam.																																																						
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76	4139 - Aspen, Mixed Deciduous	Sapling Well	19.7	15	Immature	N/A	Stand harvested in 2008 as sale #037-05. Stand was a portion of the spruce plantation that failed and therefore harvested for aspen management. Current regeneration is a mix of aspen, pin cherry, red maple and some balsam. Thick regeneration 10-15 ft tall average.																																																		
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77	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.3	80	51-80	N/A	Narrow stand of aspen, red maple and black cherry along the east shoulder of Co Rd 407. Short height in aspen. Very thick understory of maple, aspen and balsam. Low quality maple. Travel influence zone.																																																		
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78	110 - Low Intensity Urban	Nonstocked	1.4			No	County Road 422 and cleared ROW																																																		
79	6122 - Black Spruce	Poletimber Well	16.3	76	51-80	N/A	Black spruce, small diameters. Areas of more saspling size spruce and cedar and very wet.																																																		
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80	4130 - Aspen	Sawtimber Well	26.4	80	81-110	N/A	Mature aspen, showing decline. Component of red maple, black cherry, white pine and white spruce. Stand is semi open in areas with a thick understory of maple, cherry and balsam. Pockets of more maple. Southwest portion of the stand is more open. Aspen averaging 4 sticks merchantable height.																																																		
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82	4130 - Aspen	Poletimber Well	10.7	48	51-80	N/A	Stand was harvested in 1975. Part of a large cut that extends into compartments 89 and 90. Young aspen with component of red maple, black cherry, balsam, spruce, white pine, white birch. Large diameter white pine and white spruce throughout.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		65	Pole	8	48	Aspen (spp.)		
Black Cherry		5	Pole/Sapling	6		Serviceberry (Juneberry)		
Red Maple		20	Pole	7		Balsam Fir		
White Pine		2	Log	14		Red Maple		
White Spruce		2	Log	14		Cherry (spp.)		
Balsam Fir		6	Pole	5				
Sub-Canopy Species		Density	Avg. Height	Size				
Aspen (spp.)		Low	10 - 20 feet	Sapling				
83	6225 - Bog	Nonstocked	14.1			No	Bog with small pond in SE corner, beaver activity	
84	4199 - Other Mixed Upland Deciduous	Poletimber Well	20.2	97	111-140	N/A	White birch with white spruce and red maple and large diameter aspen. Balsam and red maple in the understory. Birch and aspen are mature, showing signs of decline, many have died. Access through private land, could be questionable due to recent land sales.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		30	Pole	8		Balsam Fir		
White Spruce		10	Pole/Log	9		Black Spruce		
Paper Birch		45	Pole	9	97	Maple (spp.)		
White Pine		5	Pole/Log	9				
Quaking Aspen		10	Log/Pole	10				
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Fir		Medium	Variable	Sapling				
85	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.4	97	141-170	N/A	Birch ridge, steep in spots. Mix with red maple, large aspen, beech and balsam. Large diameter white pine. Birch and aspen showing decline and mortality. Red maple is lower quality. Thick balsam understory in many areas. Small pockets of red maple (M6).	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		2	Log/Pole	10		Balsam Fir		
Hemlock		3	Log	12		Maple (spp.)		
Red Maple		35	Log/Pole	11	97			
Paper Birch		30	Log/Pole	10	97			
Quaking Aspen		15	Log/Pole	11				
White Pine		5	Log/Pole	12				
86	4110 - Sugar Maple Association	Sawtimber Well	18.1	92	81-110	N/A	.Stand was thinned in 2009 as sale #029-05. Most of the beech was removed. Good regeneration coming up already....maple, cherry, beech and aspen.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		5	Log/Pole	12		Balsam Fir		
Quaking Aspen		5	Pole	8		Beech		
Yellow Birch		5	Pole/Sapling	6		Aspen (spp.)		
Sugar Maple		75	Log/Pole	11	92	Maple (spp.)		
Paper Birch		5	Pole/Sapling	7				
Red Maple		5	Log/Pole	12				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
87	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.7	92	111-140	N/A	Lots of double and triple maple. Most of the Beech has died and fallen. Some is still standing dead. Thick beech understory. Beech scale throughout the stand, even on the saplings. Fairly steep slope on the south side of the stand. There is a beech scale (BBD) monitoring plot within the stand.																																												
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88	4199 - Other Mixed Upland Deciduous	Sapling Well	41.7	14	Immature	N/A	Stand harvested in 2009 as sale #029-05. Regeneration is a mix of aspen, maple, cherry, white birch, balsam, white pine. Residual pole size maple, birch, black cherry and white pine. Stand has lot of species diversity currently. The stand was originally cut in 1979 (07-79) and was not a "clean" cut. Small openings through stand. There's some scattered clumps of conifers.																																												
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89	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	12.1	120	111-140	N/A	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>45</td> <td>Pole</td> <td>9</td> <td>120</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>25</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	45	Pole	9	120	White Pine	10	Pole/Log	9		Red Maple	10	Pole	8		Paper Birch	10	Pole/Log	9		Black Spruce	25	Pole	7		Sub-Canopy Species	Density	Avg. Height	Size	Northern White Cedar	Medium	5 - 10 feet	Sapling	Black Spruce	Low	Variable	Sapling		
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91	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	7.6	81	51-80	N/A	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>35</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>45</td> <td>Pole</td> <td>8</td> <td>81</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole	8		Black Spruce	35	Pole	8		Northern White Cedar	45	Pole	8	81	White Pine	10	Log/Pole	12																				
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92	6225 - Bog	Nonstocked	7.1			No																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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94 6119 - Mixed Lowland Deciduous Forest Poletimber Well 26.8 79 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole	8	
White Pine	5	Log/Pole	11	
Black Ash	5	Sapling/Pole	4	
Paper Birch	35	Pole/Log	9	
Red Maple	40	Pole	8	79
Quaking Aspen	5	Pole	8	79

95 6122 - Black Spruce Poletimber Well 26.8 93 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	60	Pole	8	93
White Pine	2	Log/Pole	12	
Balsam Fir	10	Pole	8	
Bigtooth Aspen	5	Log/Pole	11	
Red Maple	13	Pole	9	
Paper Birch	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Black Spruce	Low	5 - 10 feet	Sapling

Mainly spruce with red maple, balsam and white birch. Old notes say stand was cut in early 1930's. large white pine throughout. Pockets of older birch and aspen.

96 6229 - Mixed lowland shrub Nonstocked 7.5 No

97 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 9.3 97 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole/Log	8	
Northern White Cedar	5	Pole/Log/Sap	8	
Balsam Fir	20	Pole	8	
Red Maple	30	Log/Pole	11	
White Pine	5	Log/Pole	12	
Paper Birch	30	Pole	9	97
Bigtooth Aspen	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Low	5 - 10 feet	Sapling
Balsam Fir	High	Variable	Sapling

98 6120 - Lowland Cedar Sawtimber Well 88.4 120 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log	12	
Black Spruce	5	Pole	8	
Northern White Cedar	60	Pole/Log	9	120
Hemlock	10	Log/XLog	15	120
White Pine	5	Log/Pole	12	
Paper Birch	5	Log/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Hemlock	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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99 6120 - Lowland Cedar Poletimber Well 110.1 120 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	35	Pole	8	
Red Maple	10	Pole	8	
Northern White Cedar	50	Pole/Log	9	120
White Pine	5	Log/Pole	12	

100 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 9.0 90 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	8		Hemlock	Low	Variable	Sapling
Red Maple	10	Log	12		Red Maple	Low	Variable	Sapling
Paper Birch	5	Log/XLog	14					
Hemlock	51	Log/XLog	15	90				
White Pine	5	Log/Pole	12					
Northern White Cedar	24	Pole/Log	9					

101 4119 - Mixed Northern Hardwoods Sawtimber Well 10.6 97 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	8		Maple (spp.)	Medium	10 - 20 feet	Sapling
White Pine	5	Log/Pole	12		Balsam Fir	High	Variable	Sapling
Red Maple	70	Log/Pole	11	97				
Quaking Aspen	5	Log/Pole	11					
Paper Birch	10	Log/Pole	10	97				
Sugar Maple	5	Log	12					

Mix with red maple, large aspen, beech and balsam. Large diameter white pine. Birch and aspen showing decline and mortality. Red maple is lower quality. Thick balsam understory in many areas. Small pockets of red maple (M6).
Conifers make up the edges of the stand.

102 310 - Herbaceous Openland Nonstocked 9.1 0 Immature 4211 - Planted Red Pine

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	High	< 5 feet	Seeding

Site planted with 905 TPA red pine on 5/7/2022.
9/10/21 - Site prep sprayed. Report attached.
Fall 2020 - Stand roller chopped and trenched, plant in 2021.

Originally part of a spruce plantation. Cut in 2017 as part of County Road 422 SBW (# 002-16).
***Cultivation treatment sequence changed. Stand will be trenched in 2020, site prep sprayed in 2021, and planted in 2022. This will follow newly implemented statewide sequence for red pine cultivation treatments.