



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61027

Entry Year 2028

Acreage: 3,052

County: Benzie

Management Area: Grand Traverse Moraine

Stand Examiner: Craig Allen

Legal Description:

T25N- R14W; Sections 5-8, 17, 18

T25N- R15W, Sections 1, 2

Identified Planning Goals:

Compartment 27 is a part of the Grand Traverse Moraine Management Area in the State Forest Management Plan. Vegetation management in this MA will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character, including the Betsie River which is a designated natural river; and threatened, endangered and special concern species and provide for forest-based recreational uses and Native American non-commercial uses of forest products. Timber management for the next 10 years includes improving the age-class distribution of aspen and red pine. Northern hardwoods management includes continued selective or regeneration harvesting of northern hardwoods to achieve an uneven age-class structure or improve timber quality. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests. Expected trends in this 10-year planning period are increased recreational pressure on recreational trails and introduced insect and disease concerns, especially emerald ash borer and beech bark disease.

Soil and topography:

The topography is mostly level. The west portions of sections 6 and 7 break over a steep side hill that parallels the Betsie River. Banks along the Betsie River tend to be steep and high; being ten feet or greater. The upland areas consist of the well drained Kalkaska- Rubicon soil association. Lowland areas of wet and semi- wet flats are made up of permeable Roscommon - Augres- Croswell soils. Mucks are made up mainly of Carlisle/Carbondale soils types.

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

To the north and west of the compartment lies private land and to the south and east lies State lands. The private lands in the area have many residential homes and continue to experience much land fragmentation. There are vacation and retirement homes in the area. There are nine platted subdivisions within the compartment. Three of these subdivisions have total State ownership. The remainder have a few scattered lots in private ownership. Four of these locations have cabins built upon. The lots are small in size and some are not surveyed. The State should pursue the purchase of any of the vacant lots to continue to block-in State ownership making land management easier, providing better access and allowing more contiguous land area for Public enjoyment and use.

Unique Natural Features:

The Betsie River flows through the west side of this compartment. There are many springs in the compartment that flow into the river. The Betsie is a designated Michigan Natural River system. The designation begins at the Grass Lake Dam, then extending downstream to its mouth at Betsie Lake. The Homestead dam and its adjacent lands are also located within this compartment.

Archeological, Historical, and Cultural Features:

Early Native Americans would commonly establish settlements along the Betsie River. Also, there are a few old homestead sites within the compartment.

Special Management Designations or Considerations:

There are no special management designations within this compartment. Other management considerations involve all proposed treatments (see attached).

Watershed and Fisheries Considerations:

The Betsie River and a number of small, spring creek tributaries to the Betsie River flow through Compartment 27. The Betsie River and all of the small tributaries are Designated Trout Streams, with populations of coho salmon, Chinook salmon, brown trout, and steelhead. Brown trout are stocked by Fisheries Division annually into the Betsie River by Fisheries Division. The spring creek tributaries also likely have populations of brook trout. The Betsie River is a State-Designated Natural River, so Natural Rivers standards must be adhered to when working within 400' of the Betsie River.

The stretch of the Betsie River between Homestead Dam and US-31 is very heavily fished seasonally by wading anglers for steelhead and salmon. (Fisheries Division, DNR Cadillac)

Wildlife Habitat Considerations:

State land in this compartment is situated on an outwash plain of dry sandy soils that support areas of aspen and mixed hardwoods. Forests in this landscape are typically influenced by wildfire; however parts of this landscape were at times shielded from fire to a degree. Consequently, some management for successional advanced hardwood/white pine stands is fitting to this compartment. Hardwood treatments should incorporate the preservation of within-stand tree species diversity, the retention of mature mast producing trees, and the protection of den, cavity, retention of tops, and downed trees. Many wildlife species, including broad-winged hawks, wild turkeys, southern flying squirrels, eastern gray squirrels, and Baltimore orioles, are associated with these forest types. This compartment also has a history of aspen cutting. Such early successional management should be continued on historically fire prone landscapes, with additional aspen harvests scheduled this period in order to increase age class diversity. The incorporation of snags, leave trees, and downed logs, tops, and other material in these cuts will help to increase wildlife use by species like grouse, woodcock, golden-winged warbler, deer, and to replicate a wildfire-altered forest. Some pine plantations are also found here. Where possible, hardwoods should be encouraged within these plantations for within stand diversity. When possible, a 2-5 acre island within a mature plantation could be left relatively un-thinned to provide winter roosting cover for turkeys. These roosts should be located near adequate winter food sources. Openings are an important part of this dry and fire prone landscape. The southeastern and eastern extents of this compartment contain multiple openings and low density deciduous (LDD) stands. Many of these LDD stands were classified as upland brush communities, but as existing trees mature and additional woody species colonize the area these stands would eventually succeed to forested stands in the absence of fire or other natural phenomena. These non-forested stands, along with adjacent forested habitat types provide habitat for many species of wildlife native to this fire prone land type association (LTA). Therefore, opening maintenance will continue in the compartment to restore and maintain this matrix of various non-forested through forested types for the benefit of associated species such as cedar waxwing, deer, wild turkey, mourning dove, meadow vole, or red fox. (Wildlife Division, DNR Traverse City, CSO).

Mineral Resource and Development Concerns and/or Restrictions

There is no known potential for the occurrence of economic deposits of metallic minerals in this part of the state. The closest known active sand/gravel pits occur just over one mile north and northwest of the compartment, and there is some potential for additional sand & gravel development in the compartment on the uplands. The compartment is north of the main Antrim Shale and Silurian reef hydrocarbon plays. Some Antrim wells were drilled in the area around the compartment, but pipelines were never extended to the area, the wells never produced, and have since been plugged and abandoned or, in some cases, orphaned. While there still may be some potential for Antrim gas production from beneath the compartment, it is uneconomical at current gas prices to develop new Antrim wells, and potential future Antrim gas development is considered very low. Potential for oil & gas from other known producing formations beneath the compartment is considered low at this time. There has been no recent well permit activity in the area, and there are no active leases within the compartment involving State-owned mineral rights. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose. (Peter Rose, DNR Geologist, 3/26/26).

Vehicle Access:

There are many gravel and seasonal county roads throughout the compartment offering good access to State lands. There are also many forest "2-track" roads in various areas of the compartment that are in good condition and are used for public and DNR land management accessibility. Due to rough conditions, there may be a need for some road repair work to a few locations on forest 2-track roads located in section 18.

Survey Needs:

There are a few survey needs to establish the location of private land corners and boundaries within this compartment.

Recreational Facilities and Opportunities:

Snowmobile Trail #3 utilizes Landis Rd along the southern edge of this compartment, then turns N/S bisecting the compartment using Begold Rd, then turns east onto Harvest Rd. While this snowmobile trail is located on county roads, trail protection specifications should be considered if hauling occurs during the winter season. (DNR Parks and Recreation Division, Cadillac).

Fire Protection:

This area has wildfire protection by Local Fire Departments and the DNR Traverse City Field Office. Access is acceptable in this compartment, and there is only a minor history of wildfire. The majority of this compartment is a hardwood type, so the opportunity for a large fire is minimal. Urban Interface is not a major concern.

Additional Compartment Information:

Lands recommended for disposal: The small isolated parcel surrounded by private land in section 1 of T25N- R15W, (N1/2S1/2NWSW). Lands recommended for acquisition: Any of the interior private lands as well as those located near the center or lower tier of the compartment could be considered for purchase if they become available. Purchase of these lands

would further help to block in State ownership of land within this compartment, thereby making land management easier with better access and allowing more contiguous land area for Public enjoyment and use.

The following reports from the Inventory are attached:

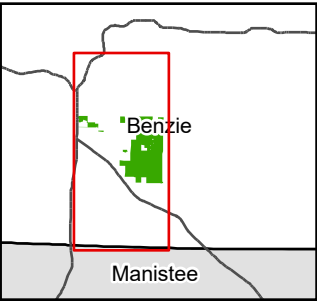
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

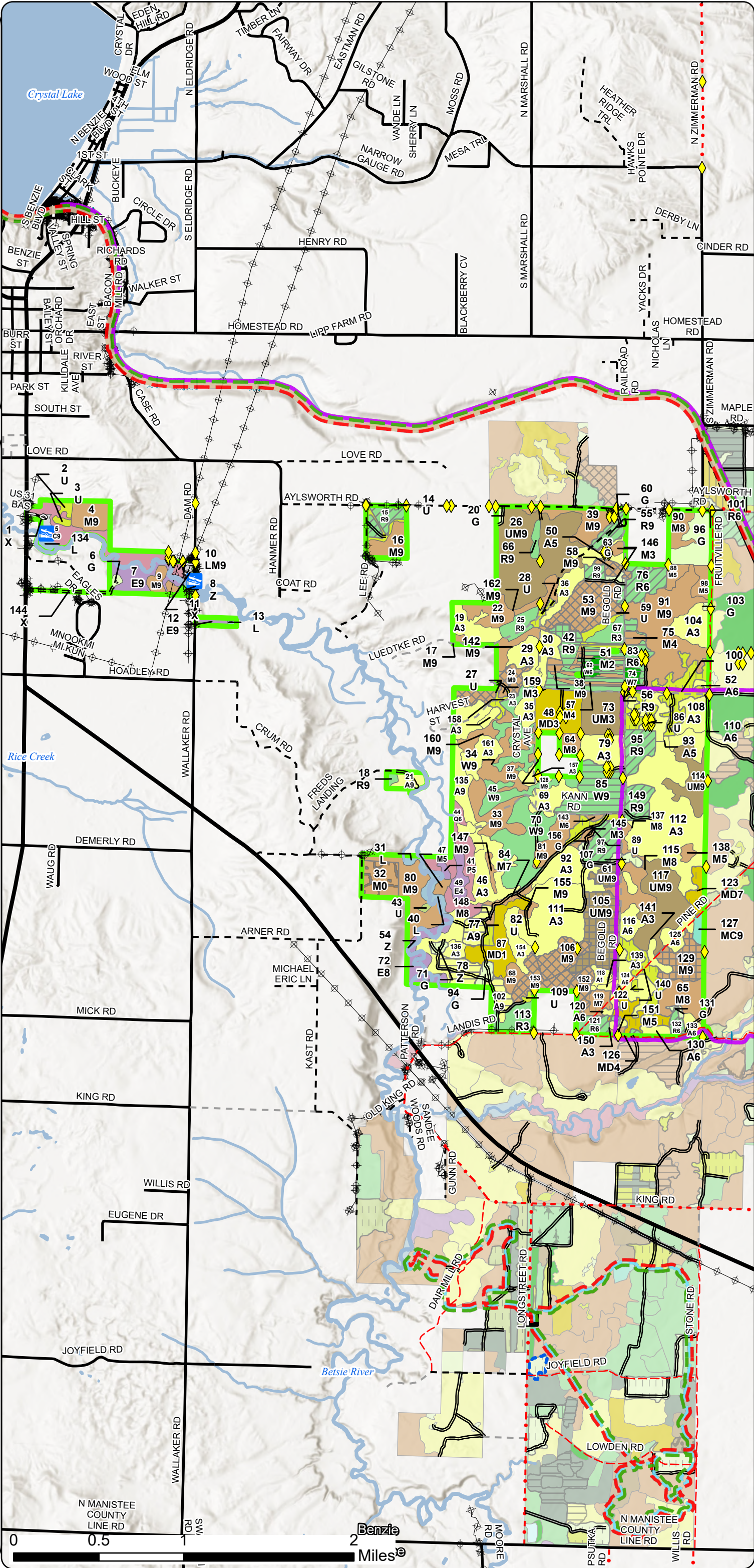
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Field Map

Compartment: 61027
T 25N R14W 05-08, 17, 18
County: Benzie
Unit: Traverse City
Mgmt. Area: Grand Traverse Moraine
YOE: 2028
Acres: 3,051.97 GIS Calculated
Examiner: Craig Allen
Date Exported: 06/25/2026
Map Phase: Web Post

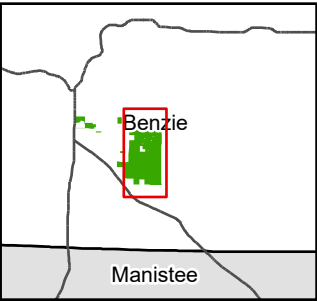


- Survey Grade Corners
- Toilet
- Culvert
- Parking Lot
- Boating Access Site
- Designated Hiking Pathway
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowmobile
- Railtrail
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
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- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Electric
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Selection
- Seed Tree
- Thinning
- Openings Mgmt.
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
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- 430 - Upland Mixed Forest
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- 613 - Lowland Mixed Forest
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- 122 - Road/Parking Lot
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- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

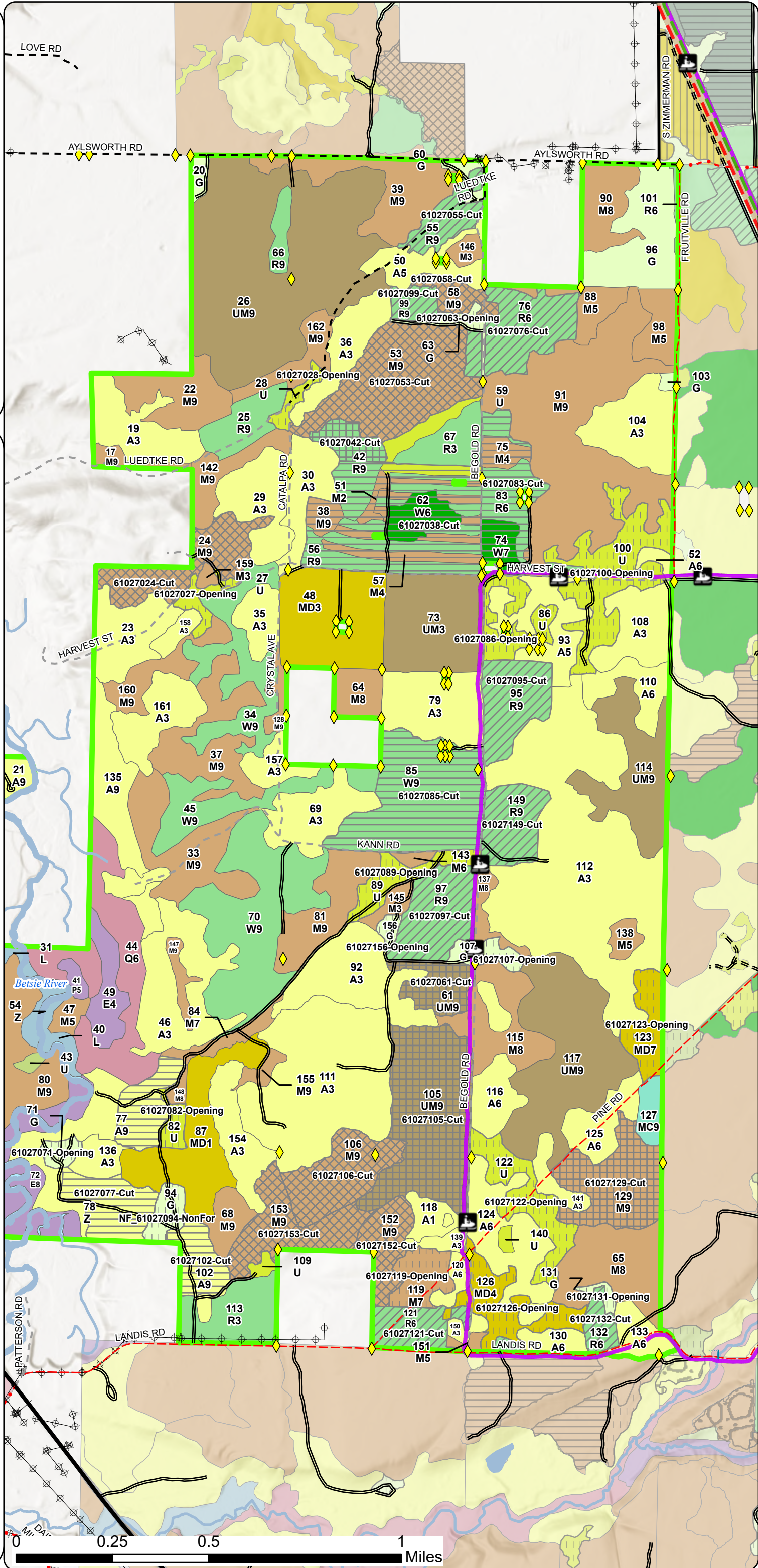


Cover Type & Treatments Map

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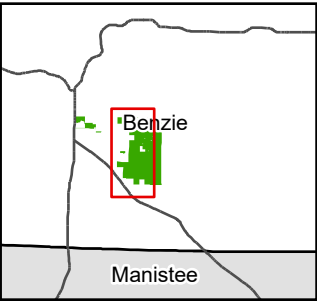


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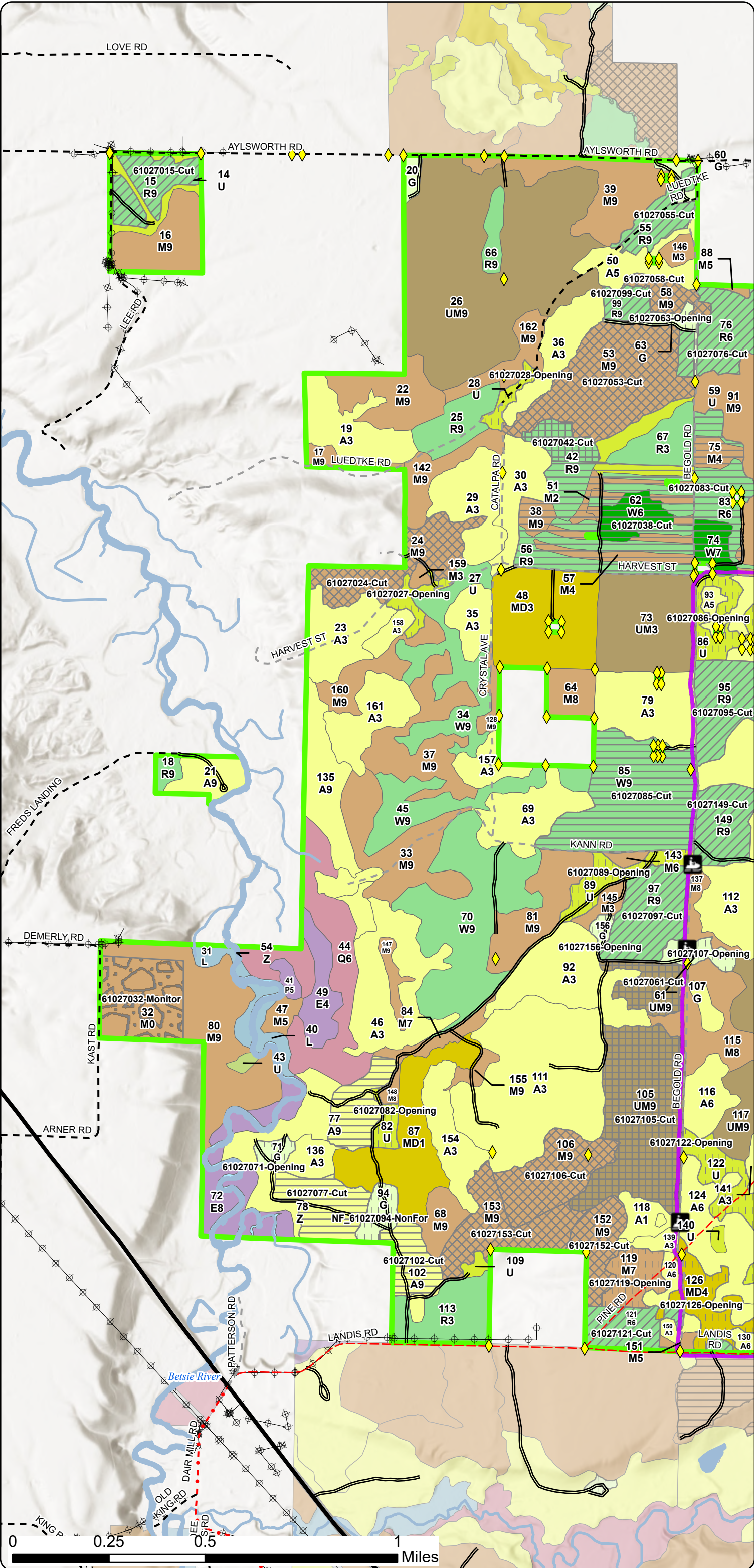


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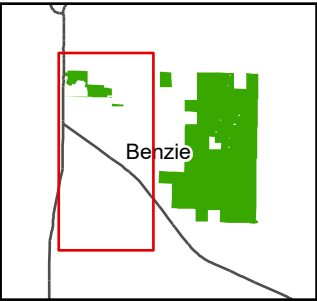


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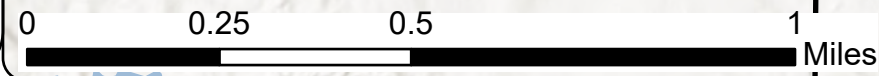
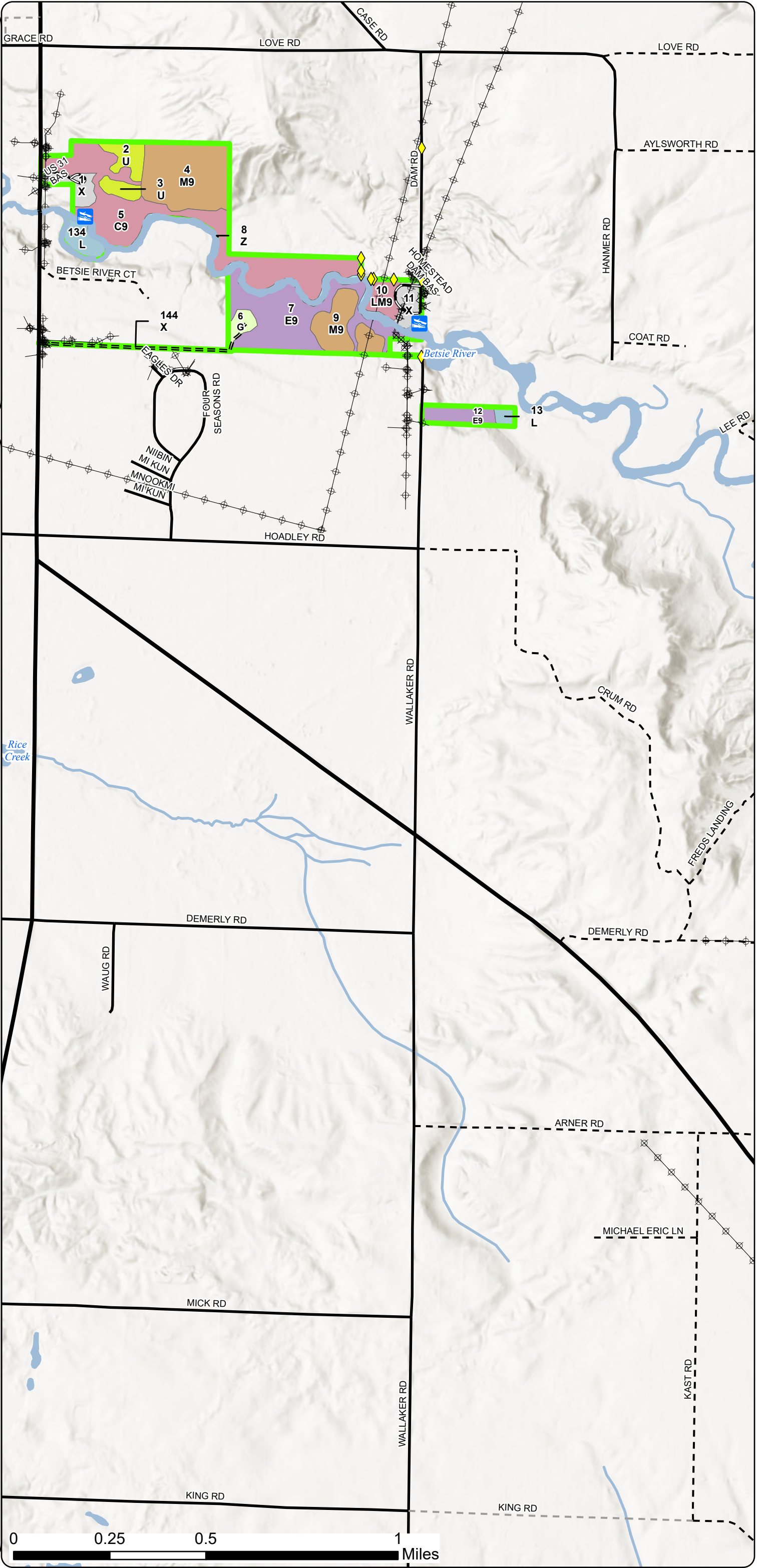


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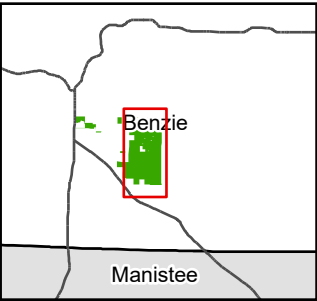


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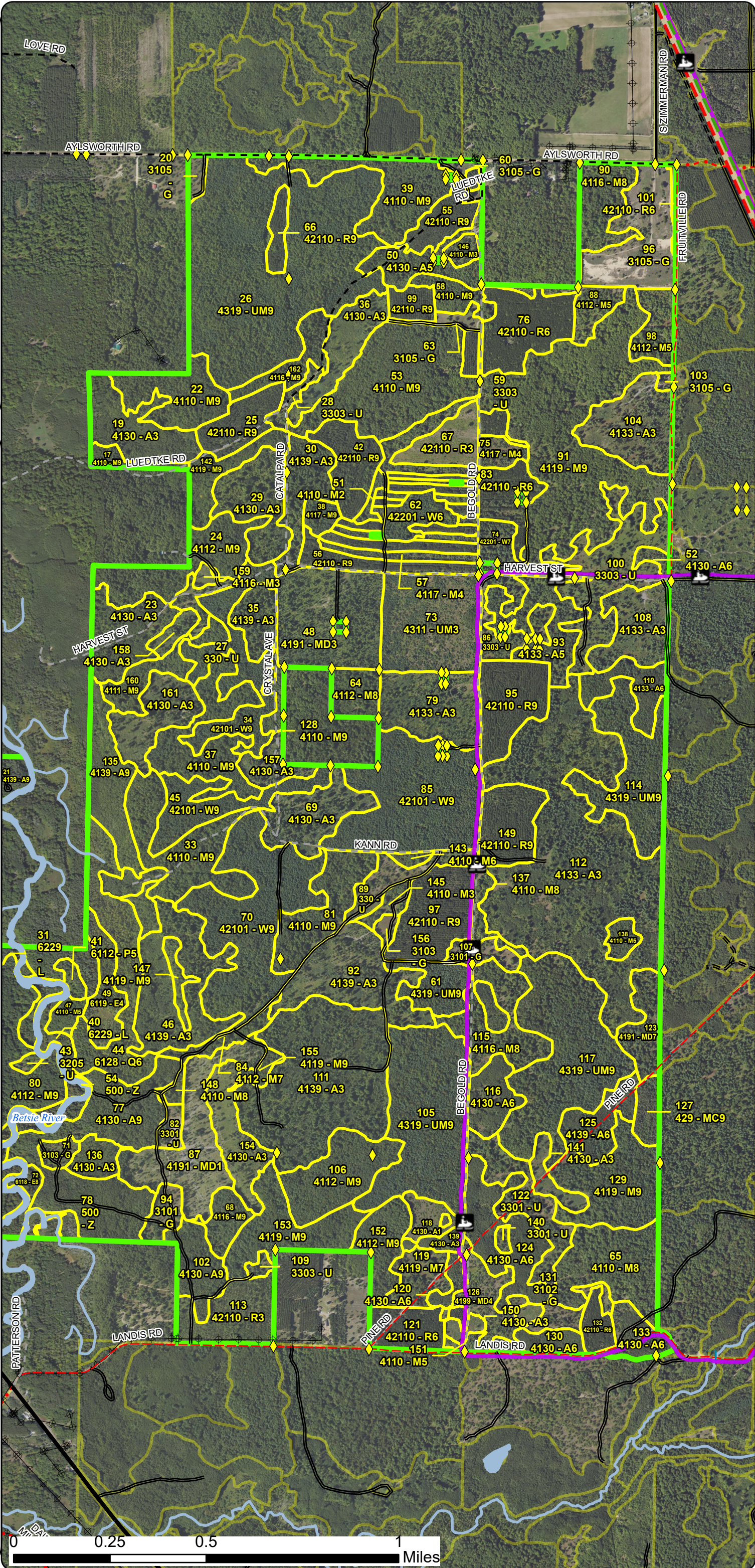


Stand Boundary
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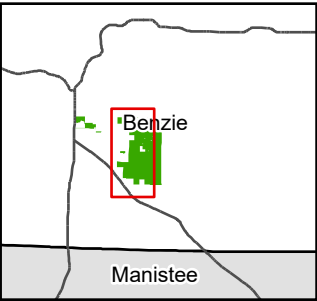


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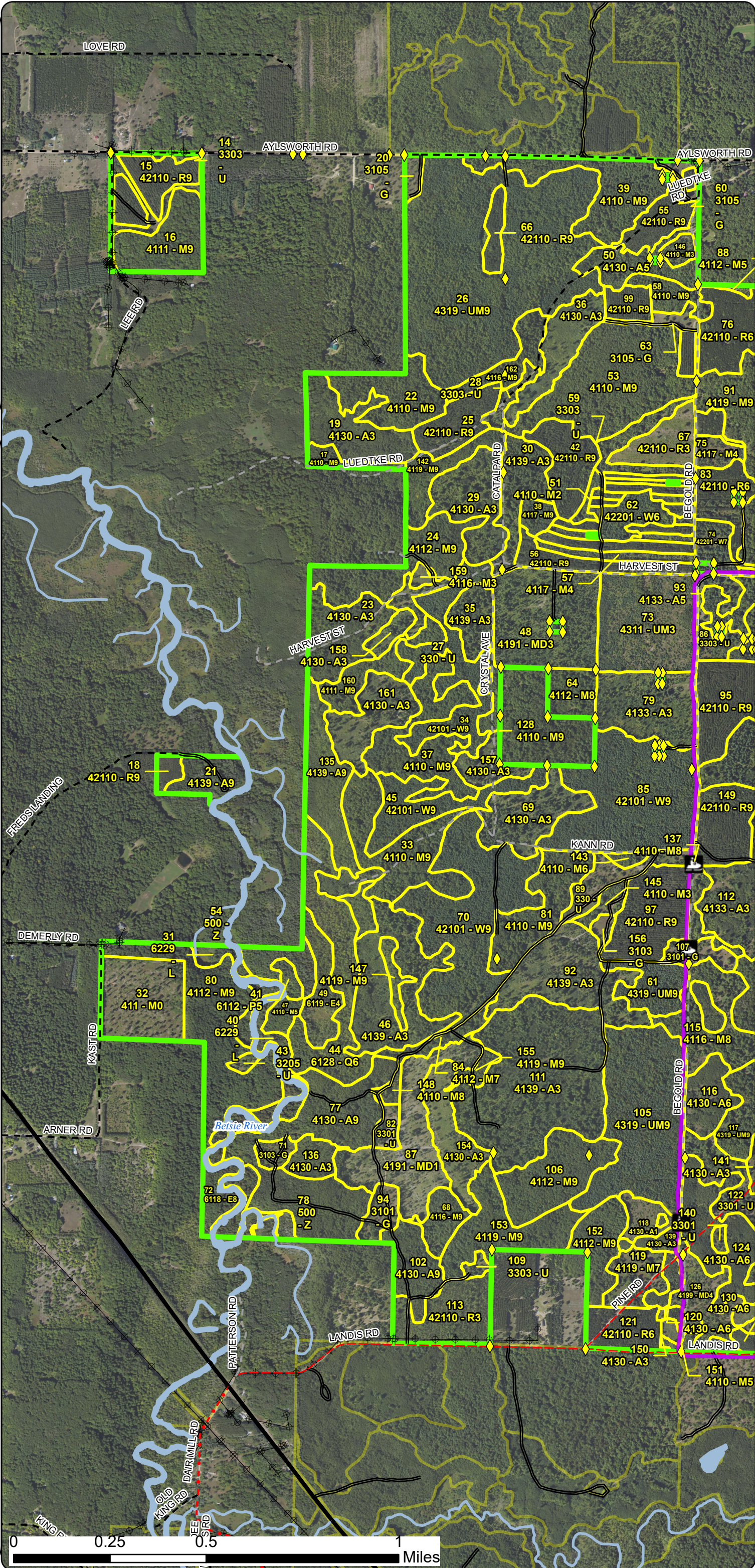


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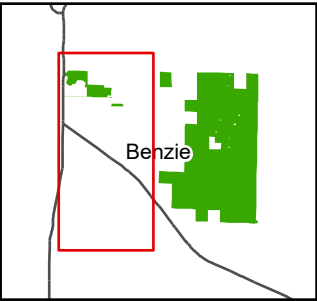


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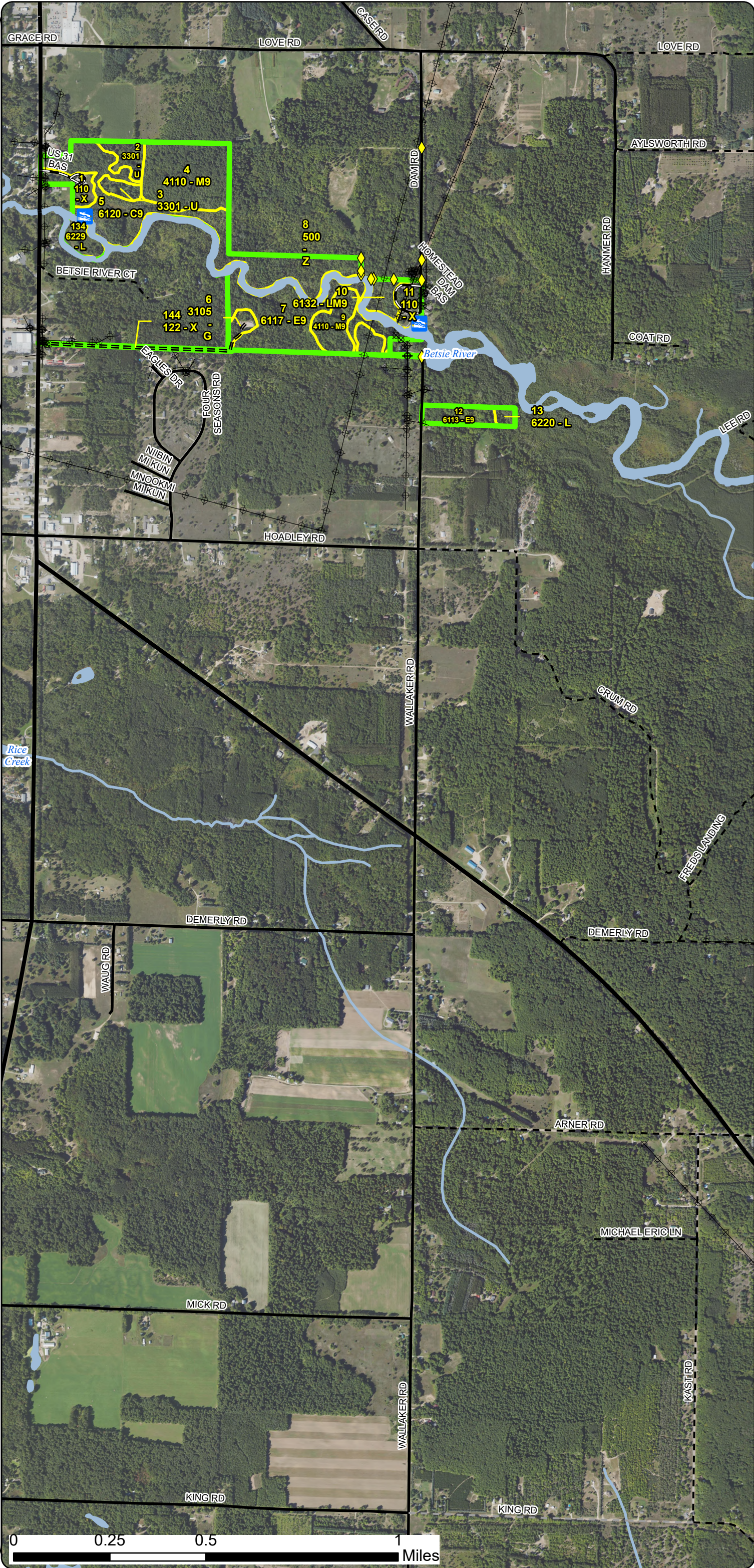


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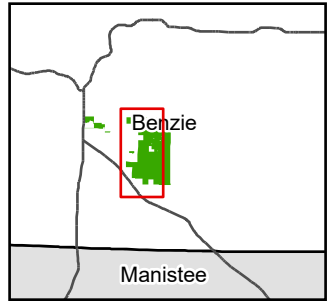
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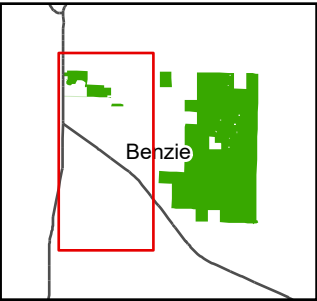
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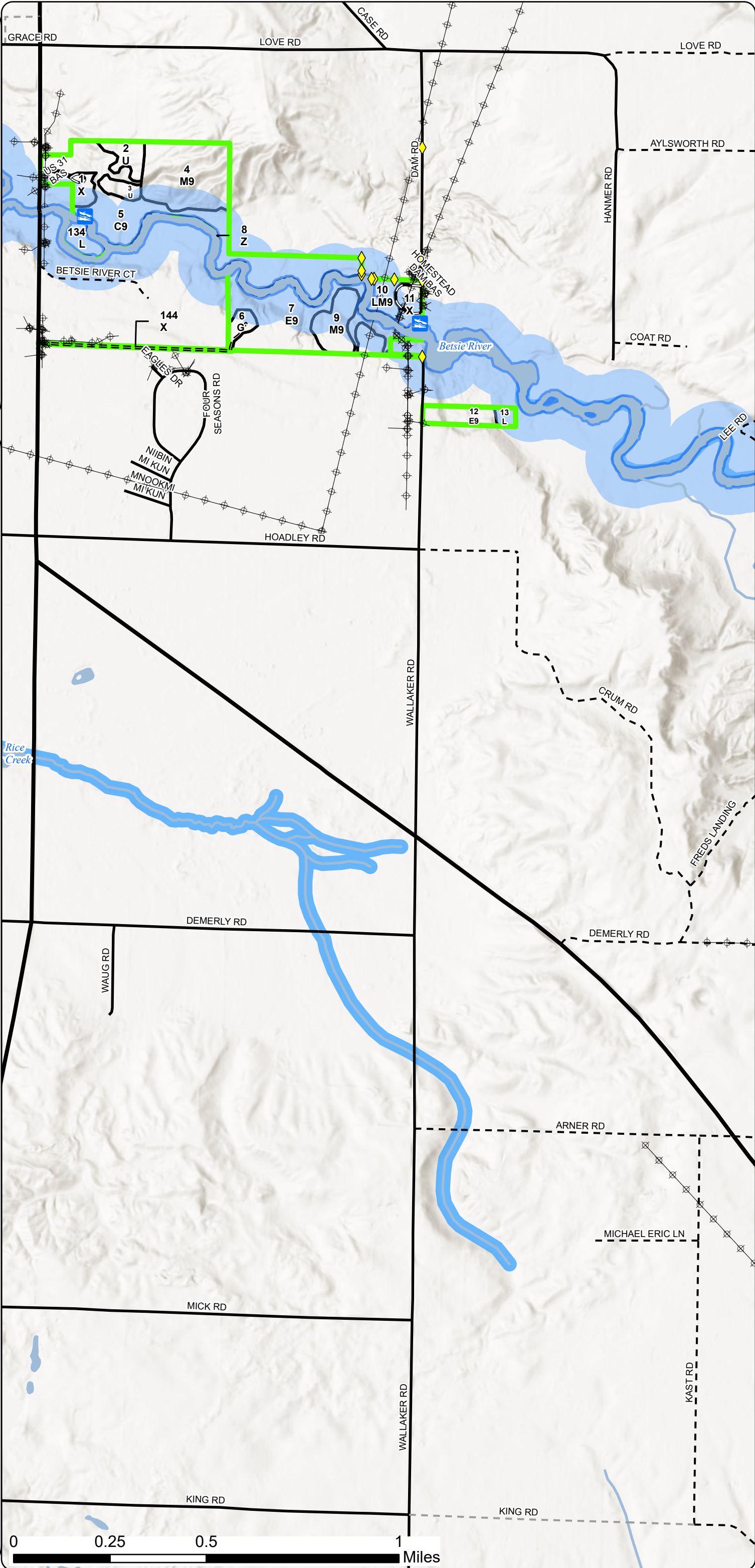
-
- This is a detailed topographic map of a rural area, likely in North Carolina, showing property boundaries, roads, and the Betsie River. The map is overlaid with a green grid and various colored lines (green, purple, red) indicating different planning zones or boundaries. Numerous numbered parcels are labeled with codes like '15 R9', '16 M9', '14 U', etc. Major roads include LOVE RD, AYLSWORTH RD, LUEDTKE RD, CATALPA RD, BEGOLD RD, KANN RD, HARVEST ST, KAST RD, ARNER RD, PATTERSON RD, LANDIS RD, PINE RD, and KING RD. A scale bar at the bottom indicates distances from 0 to 1 mile.

Special Conservation Areas
& Site Conditions Map

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- Compartment Boundary
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	190	355	58	82	3	86	23	16	39	0	0	0	0	0	0	0	0	851
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	41
Herbaceous Openland	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Low-Density Trees	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	45
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	14	33	28	0	0	0	0	0	75
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	4
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	38	44	0	0	0	0	0	14	21	0	0	0	0	0	0	0	0	117
Northern Hardwood	29	2	4	0	0	14	0	9	27	157	159	220	96	47	0	0	0	58	820
Red Pine	0	14	22	0	68	0	0	151	32	0	0	0	0	0	0	0	0	0	287
Upland Conifers	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	42	0	0	0	211	102	0	0	0	0	0	0	0	0	0	355
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
White Pine	0	0	0	0	0	0	0	188	0	8	0	0	0	0	0	0	0	0	196
Total	282	244	425	100	150	17	86	582	194	225	180	253	215	47	0	0	0	58	3054



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 27
Total Compartment Acres: 3,052

Commercial Harvest - 2702
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	49	0	0	0	0	0	0	0	0	49
Northern Hardwood	77	160	0	33	0	0	0	0	0	271
Red Pine	31	0	0	9	0	157	0	0	0	197
Upland Mixed Forest	0	0	0	75	0	0	0	0	0	75
White Pine	57	0	0	0	0	0	0	0	0	57
Total	214	160	0	117	0	157	0	0	0	649

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	649	0	0	0	0	29	0	7		849
Next Step	0	408	496	0	0	331	657	0	0	2057
Total	649	408	496	0	0	331	686	0	7	2906



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

15	61027015-Cut	16.6	42110 - Planted Red Pine	9	63	171- 200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of the trees. Primarily focus on marking poor form, suppressed, defect trees, then mark others as needed to allow 1/3 volume removal with even spacing throughout plantation as poss <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
24	61027024-Cut	26.8	4112 - Maple, Beech, Cherry Association	9	95	111- 140	Harvest	Selection	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Lightly, select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Leave some bee <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> maple, cherry, aspen, basswood <u>Regen:</u> <u>Other</u> Also, add spec to remove any ironwood as needed to facilitate logging operations. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
27	61027027- Opening	5.6	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											



Standard

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 61027028-Opening	4.3	3303 - Mixed Low Density Trees	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

32 61027032-Monitor	29.4	411 - Northern Hardwood	0	7	Immature	Monitoring	Monitoring - Regeneration	411 - Northern Hardwood	Planting Record	No
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Prescription MWR ProjectMSU crew will monitor site per study specs.

Specs:

Next Step
Treatments:

Acceptable mixed Northern Hardwood
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

38 61027038-Cut	77.4	4117 - Mixed N. Hardwood - Pine	9	90	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
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Prescription This is an area of various red and jack pine plantations that were planted using strip plantation techniques that did not work well. Final harvest this area, then replant to red pine.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; Monitoring, Artificial Regen;
Treatments: Monitoring, Artificial Regen; Planting, Unfurrowed; NonCommCut, Brush Saw Release; Planting, Interplant;

Acceptable red pine
Regen:

Other No retention due to replanting the area. Chip this sale to remove as much wood and debris as possible to make replanting possible.Add snow
Comment: trail protect spec.per timber specialist...add use masticator treatment after timber sale to also help reduce any

Site Condition:

Proposed Start Date: 10/01/2027

42 61027042-Cut	8.7	42110 - Planted Red Pine	9	63	141-170	Harvest	Seed Tree	4117 - Mixed N. Hardwood - Pine	Planting Record	No
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Prescription Seed tree mark this portion of the old red pine stand to convert to northern hardwood management. Mark seed trees leaving approximately 10 to 30 BA scattered throughout. Harvest all other red pine, but protect thick sugar maple understory as much as pos

Specs:

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

Acceptable maple, basswood, red pine, cherry, elm, ash
Regen:

Other Red pine seed trees can be kept for shade and seed source which will add to stand diversity.
Comment:

Site Condition:

Proposed Start Date: 10/01/2027



Standard

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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53 61027053-Cut	54.9	4110 - Sugar Maple Association	9	110	141-170	Harvest	Selection	411 - Northern Hardwood	Planting Record	No
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Prescription Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Leave some beech if the

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

Acceptable maple, basswood, ash, aspen, cherry
Regen:

Other Also, add spec to remove any ironwood as needed to facilitate logging operations.
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

55 61027055-Cut	12.6	42110 - Planted Red Pine	9	63	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin stand by select marking individual trees to harvest approximately 1/3 of the trees. Primarily focus on marking poor form, suppressed, defect trees, then mark others as needed to allow 1/3 volume removal with even spacing throughout plantation as poss

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

58 61027058-Cut	8.4	4110 - Sugar Maple Association	9	98	111-140	Harvest	Selection	411 - Northern Hardwood	Planting Record	No
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Prescription Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. leave any conifers.

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

Acceptable maple, basswood, cherry
Regen:

Other Also, add spec to remove any ironwood as needed to facilitate logging operations.
Comment:

Site Condition:

Proposed Start Date: 10/01/2027



Standard

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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61	61027061-Cut	13.6	4319 - Mixed Upland Forest	9	63	81-110	Harvest	Seed Tree	4191 - Mixed Upland Deciduous with Conifer	Planting Record	No
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Prescription Mark to leave seed trees (approx 10-30 BA) as follows: Green mark better form/health white pine, sugar maple, and basswood. These seed trees should be good health/form and large sawlog DBH size. Harvest all other aspen, red maple, white pine, ironwood,

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, white pine, aspen, basswood, cherry.

Regen:

Other Follow proper long term retention area guidelines.add drumming spec for wildlife. Also mark to keep any den trees and add standing snag
Comment: spec

Site Condition:

Proposed Start Date: 10/01/2027

63	61027063-Opening	4.5	3105 - Mixed Upland Herbaceous	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

71	61027071-Opening	4.1	3103 - Rubus-Fern	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription Probably will need to remove some woody vegetation. Plant forage crop appropriate for site location and seasonal (i.e. summer vs. winter forage) wildlife uses. May want/need to work around existing beneficial vegetation (i.e. blackberry, Juneberry, cher

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

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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
76 61027076-Cut	25.8	42110 - Planted Red Pine	6	39	171-200	Harvest	Thinning	42110 - Planted Red Pine	Planting Record	No
<u>Prescription</u> First Thinning. Harvest every 3rd row. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> remove 1/3 volume. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
77 61027077-Cut	35.3	4130 - Aspen	9	56		Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Clearcut stand to regenerate and expand aspen and mixed hardwoods. Leave any sugar maple 18" + DBH, all conifers, elm, and any standing dead trees. Protect patches of hemlock understory. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple, sugar maple, white pine, basswood, cherry <u>Regen:</u> <u>Other</u> Add drumming log spec for wildlife. Long term retention already mapped out within river setback/buffer...see Site Condition. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
82 61027082-Opening	4.6	3301 - Low Density Deciduous Trees	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wil <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
83 61027083-Cut	30.6	42110 - Planted Red Pine	6	39	171-200	Harvest	Clearcut	42110 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final harvest this area and replant to red pine. <u>Specs:</u> <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Artificial Regen; Planting, Unfurrowed; NonCommCut, Brush Saw Release; Planting, Interplant; <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> Little or no retention recommended due to replanting. Add snow trail protect spec. Add chipping spec to prep area for re-plant. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										

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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 61027085-Cut	57.4	42101 - Planted White Pine, Mixed Deciduous	9	63	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final harvest this area and replant to red pine. <u>Specs:</u> <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Artificial Regen; Planting, Unfurrowed; NonCommCut, Brush Saw Release; Planting, Interplant; <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> retention mostly on west lobe of the stand...see site condition and map.Add snow trail protect spec.Add chipping spec to prepare area for <u>Comment:</u> replant. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
86 61027086-Opening	13.6	3303 - Mixed Low Density Trees	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs <u>Specs:</u> and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern <u>Comment:</u> hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
89 61027089-Opening	12.4	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs <u>Specs:</u> and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern <u>Comment:</u> hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
95 61027095-Cut	23.4	42110 - Planted Red Pine	9	63	171- 200	Harvest	Thinning	42110 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of the trees. Primarily focus on marking poor form, suppressed, <u>Specs:</u> defect trees, then mark others as needed to allow 1/3 volume removal with even spacing throughout plantation as poss <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> add snow trail protect spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										



Standard

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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97 61027097-Cut	26.6	42110 - Planted Red Pine	9	63	171-200	Harvest	Thinning	42110 - Planted Red Pine	Planting Record	No
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Prescription Thin stand by select marking individual trees to harvest approximately 1/3 of the trees. Primarily focus on marking poor form, suppressed, defect trees, then mark others as needed to allow 1/3 volume removal with even spacing throughout plantation as poss

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other add snow trail protect spec.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

99 61027099-Cut	9.8	42110 - Planted Red Pine	9	63	171-200	Harvest	Thinning	42110 - Planted Red Pine	Planting Record	No
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Prescription Thin stand by select marking individual trees to harvest approximately 1/3 of the trees. Primarily focus on marking poor form, suppressed, defect trees, then mark others as needed to allow 1/3 volume removal with even spacing throughout plantation as poss

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

100 61027100-Opening	37.9	3303 - Mixed Low Density Trees	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

102 61027102-Cut	13.3	4130 - Aspen	9	56	Unspecified	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
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Prescription Clearcut stand to regenerate and expand aspen and mixed hardwoods. Leave any sugar maple 18" + DBH, all conifers, elm, and any standing dead trees. Apply long term retention per policy guidelines.

Specs:

Next Step

Treatments:

Acceptable aspen, red maple, cherry, white pine, sugar maple, elm.

Regen:

Other add drumming log spec for wildlife.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
105 61027105-Cut	61.6	4319 - Mixed Upland Forest	9	63	81-110	Harvest	Seed Tree	4191 - Mixed Upland Deciduous with Conifer	Planting Record	No
<u>Prescription</u> Mark to leave seed trees (approx 10-30 BA) as follows: Green mark better form/health white pine, sugar maple, and basswood. These seed trees should be good health/form and large sawlog DBH size. Harvest all other aspen, red maple, white pine, ironwood, <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> maple, white pine, aspen, basswood, cherry, <u>Regen:</u> <u>Other</u> Follow proper long term retention area guidelines.add drumming spec for wildlife. Also mark to keep any den trees and add standing snag <u>Comment:</u> spec. Include trail protect spec. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
106 61027106-Cut	27.1	4112 - Maple, Beech, Cherry Association	9	103	141-170	Harvest	Selection	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Leave some beech if they ex <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> maple, basswood, cherry, aspen, ash, <u>Regen:</u> <u>Other</u> Also, add spec to remove any ironwood as needed to facilitate logging operations. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
107 61027107-Opening	4.2	3101 - Poverty Grass, Cladonia	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern <u>Comment:</u> hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										

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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
119 61027119-Opening	12.3	4119 - Mixed Northern Hardwoods	7	90	1-50	Openings Mgmt.	Openings Mgmt.	330 - Low-Density Trees	Previous Inventory	No
<u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern <u>Comment:</u> hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
121 61027121-Cut	16.5	42110 - Planted Red Pine	6	39	171-200	Harvest	Thinning	42110 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin stand by harvesting every 3rd row. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> first thinning, remove 1/3 volume. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
122 61027122-Opening	21.5	3301 - Low Density Deciduous Trees	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern <u>Comment:</u> hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
123 61027123-Opening	13.6	4191 - Mixed Upland Deciduous with Conifer	7	70	1-50	Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern <u>Comment:</u> hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										



Standard

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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126 61027126-Opening	20.9	4199 - Other Mixed Upland Deciduous	4	80	1-50	Openings Mgmt.	Openings Mgmt.	330 - Low-Density Trees	Previous Inventory	No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern

Comment: hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro

Site Condition:

Proposed Start Date: 10/01/2027

129 61027129-Cut	33.2	4119 - Mixed Northern Hardwoods	9	100	81-110	Harvest	Seed Tree	4191 - Mixed Upland Deciduous with Conifer	Planting Record	No
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Prescription Manage for mix species. Seed tree mark leaving best health/form mature sugar maple, white pine and Basswood. Leave approximately 10-3

Specs: BA, but can leave more in an areas of better quality sugar maple. Open up areas where aspen concentrated. Leave ver

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, basswood, aspen, white pine, elm, ash

Regen:

Other Follow long term retention area policy guidelines.Add drumming log spec for grouse and standing snag spec.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

131 61027131-Opening	1.9	3102 - Grass	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription Probably will need to remove some woody vegetation. Plant forage crop appropriate for site location and seasonal (i.e. summer vs. winter forage) wildlife uses. May want/need to work around existing beneficial vegetation (i.e. blackberry, Juneberry, cher

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern

Comment: hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro

Site Condition:

Proposed Start Date: 10/01/2027



Standard

	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
132	61027132-Cut	6.7	42110 - Planted Red Pine	6	39	171-200	Harvest	Thinning	42110 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin stand by harvesting every 3rd row. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> First thinning, remove 1/3 volume. Add snow trail protect spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
149	61027149-Cut	19.4	42110 - Planted Red Pine	9	63	171-200	Harvest	Thinning	42110 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of the trees. Primarily focus on marking poor form, suppressed, defect trees, then mark others as needed to allow 1/3 volume removal with even spacing throughout plantation as poss <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Add snowmobile trail protection spec <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
152	61027152-Cut	15.6	4112 - Maple, Beech, Cherry Association	9	103	111-140	Harvest	Selection	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Leave some beech if they exh <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> maple, basswood, ash, cherry, aspen <u>Regen:</u> <u>Other</u> Also, add spec to remove any ironwood as needed to facilitate logging operations. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
153	61027153-Cut	27.3	4119 - Mixed Northern Hardwoods	9	103	111-140	Harvest	Selection	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Leave some beech if they exh <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> maple, basswood, ash, cherry, aspen <u>Regen:</u> <u>Other</u> Also, add spec to remove any ironwood as needed to facilitate logging operations. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											

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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
156 61027156-Opening	2.3	3103 - Rubus-Fern	99			Openings Mgmt.	Openings Mgmt.	3204 - Mast Producing Shrub	Previous Inventory	No
<u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs <u>Specs:</u> and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern <u>Comment:</u> hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
94 NF_61027094-NonFor	7.1	3101 - Poverty Grass, Cladonia	99			NonForestMgt	Openings Mgmt.	3101 - Poverty Grass, Cladonia	Previous Inventory	No
<u>Prescription</u> 1. Remove exotics as needed by herbiciding, or other methods. Seed in annual crop for soil building for several years then convert to <u>Specs:</u> appropriate perennial planting, native or pasture mix, for site location and seasonal (i.e. summer vs. winter forage) w <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Avoid areas of sugar maple regeneration. Work with FRD to allow sugar maple to expand in areas in order to increase contiguous northern <u>Comment:</u> hardwood cover type and protect forest interior species from edge predators while also promoting natural gaps in appro <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										

Total Treatment 848.8
Acreage Proposed:



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

2E 5B 5G 2F 2G 2H 3D 3G 3J 5E

800	738	14	48	Aspen		14		27			12		10	
41	0	0	41	Cedar				41						
66	63	0	3	Herbaceous Openland							3			
130	130	0	0	Low-Density Trees										
3	0	0	3	Lowland Aspen/Balsam Poplar				3						
45	0	0	45	Lowland Conifers				45						
74	0	0	74	Lowland Deciduous				74						
4	0	0	5	Lowland Mixed Forest				5						
19	19	0	0	Lowland Shrub										
116	116	0	0	Mixed Upland Deciduous										
795	657	0	138	Northern Hardwood				103		16				18
288	285	3	0	Red Pine	3									
7	0	7	0	Upland Conifers			7							
355	355	0	0	Upland Mixed Forest										
2	2	0	0	Upland Shrub										
11	11	0	0	Urban										
21	21	0	0	Water										
122	113	0	9	White Pine										9
2,900	2,510	24	365	Total Forested Acres	3	14	7	130	168	16	12	3	10	27
	87%	1%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention		5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This "island" stand was used as long term retention for harvest of stand that surrounds it now.								

Report 4 – Site Conditions



2	Unavailable	3D: Recreational/scenic values	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Recreational site- "Fred's Landing" this land is used for access to Betsie River. There is heavy use (at times) especially during salmon runs. There is a need here for discussion regarding proper development of this site for parking as well as boat launch capabilities due to the fact that many guides use this site to launch their float boats.							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: no vehicular access...blocked by surrounding lowlands and river							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Nominate for disposal.							
5	Unavailable	2F: Too steep	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2F: Too steep	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



8	Available	2E: Road needed	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stand is located down in river valley that has very poor sandy roads...would not support Logging truck traffic and would not be feasible for extensive road work to access a 3 acre stand.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	73	3J: Water quality/BMPs (stream, river, or lake)	3D: Recreational/scenic values	Unspecified	Unspecified
Comments: Stand follows edge of River and is used heavily by fishermen to access via trails.							
11	Unavailable	2F: Too steep	24	2B: Unknown if access through adjacent landowner(s) is possible	3D: Recreational/scenic values	3J: Water quality/BMPs (stream, river, or lake)	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: sugar maple saps							
13	Unavailable	2F: Too steep	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



16	Unavailable	2F: Too steep	47	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5G: Research Study	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Experimental plantation. Tried planting a few different species not commonly planted in the past.							
18	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: long term retention for stand 85 harvested area.							
19	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand was used as long term retention for adjoining stand to the east when it was harvested. Keep along road/trail as retention.							
20	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This was long term retention for harvest area of stand 157 and 69 which was completed in 2020.							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	4	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: This steep hillside was left for retention in the surrounding stand that was harvested							

Report 4 – Site Conditions



23	Unavailable	3G: Other influence zones - See comments	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	22	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: River setback minimum 100 feet, along with several river access/camping sites. Long term retention for stand 77.							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Betsie River flood plain							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: long term retention for treatment in stand 102							
29	Unavailable	2F: Too steep	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: steep hillside may limit logging activity							

Report 4 – Site Conditions



30	Available	5B: Maintain for regeneration purposes	14	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



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
1	110 - Low Intensity Urban	None	4.9			No	Public Access parking lot area (with open grassy area) for public access to betsie river in Benzonia.Administered by the Parks and Recreation Division.																																																								
2	3301 - Low Density Deciduous Trees	None	4.8			No	Lots of honey suckle bushes.Some black walnut along the north boundary line on near field. likely some with be seeding into state land more.																																																								
3	3301 - Low Density Deciduous Trees	None	2.8			No																																																									
4	4110 - Sugar Maple Association	Sawtimber Well	24.4	115	111-140	N/A	A few mature ash sawlog size trees still alive and well near NW corner and north edge of stand. There are lots of down large woody debris from ash die-out. The stand lost considerable BA from last field visit in 2016 due to die off of ash.Also contains a few mature hemlock and yellow birch. Lots of pole size sugar maple.																																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>70</td><td>XLog/Log/Pole</td><td>18</td><td>115</td></tr><tr><td>Beech</td><td>15</td><td>XLog/Log/Pole</td><td>20</td><td></td></tr><tr><td>Black Cherry</td><td>9</td><td>Log/Pole/XLog</td><td>16</td><td></td></tr><tr><td>Basswood</td><td>3</td><td>Log/Pole</td><td>16</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>3</td><td>Log/Pole</td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	70	XLog/Log/Pole	18	115	Beech	15	XLog/Log/Pole	20		Black Cherry	9	Log/Pole/XLog	16		Basswood	3	Log/Pole	16		Bigtooth Aspen	3	Log/Pole	12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Beech</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Black Cherry</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Hemlock</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Sugar Maple</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Sugar Maple</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Ironwood</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	10 - 20 feet	10 - 20 feet	Black Cherry	Low	5 - 10 feet	5 - 10 feet	Hemlock	Low	Variable	Variable	Sugar Maple	Medium	>20 feet	>20 feet	Sugar Maple	Low	10 - 20 feet	10 - 20 feet	Ironwood	Medium	Variable	Variable		
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5	6120 - Lowland Cedar	Sawtimber Well	41.1	110	51-80	N/A																																																									
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6	3105 - Mixed Upland Herbaceous	None	2.8			No	This opening is heavily used as a informal parking area for fishermen to access the Betsie River.																																																								
7	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	27.9	115	81-110	N/A																																																									
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8	500 - Water	None	10.4			No	Betsie River including Homestead Dam.																																																								



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
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18	42110 - Planted Red Pine	Sawtimber Well	3.4	63	171-200	N/A	Part of a small isolated parcel of State land used for fishing access to the Betsie River. Called "Fred's Landing"																																														
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19	4130 - Aspen	Sapling Well	23.8	21	Unspecified	N/A	Cut in Aug. 2005. Trees that were left uncut (retention) include red maple, hemlock, beech...including some small islands of these trees.																																														
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20	3105 - Mixed Upland Herbaceous	None	3.2			No	Part of an old farm field that is adjacent to private property and county road. Some various trees planted and natural.																																														
21	4139 - Aspen, Mixed Deciduous	Sawtimber Well	11.7	85	81-110	N/A	Used for Recreational River access. Called "Fred's Landing".Also contains some yellow birch, and a few old apple trees along NW side.																																														
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22	4110 - Sugar Maple Association	Sawtimber Well	22.3	85	81-110	N/A	Many multi-stem treesSome good old sugar maple den trees within.																																														
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23	4130 - Aspen	Sapling Well	22.6	21	Unspecified	N/A	Was clear cut (with reserves) in 2005.Trees left (reserves) were scattered white pine, hemlock, beech, sugar maple.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
30	4139 - Aspen, Mixed Deciduous	Sapling Well	18.1	15	Unspecified	N/A	Harvested summer 2011. Harvest was to regenerate and expand aspen component and yet work around existing advanced sugar maple regen of saps and pole size. Also marked to select poorer Sugar maple to retain healthier better trees. Goal for mix stand of maple and aspen. Older maple trees give shade and seed for younger.																														
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31	6229 - Mixed Lowland Shrub	None	3.3			No	Appears to be part of an old oxbow lowland area along the edge of the Betsie River.																														
32	411 - Northern Hardwood	Unspecified	29.4	7	Immature		Stand was shelterwood cut fall of 2017 as part of MSU study (MWR) project. Updated from NF to seedling based on treatment history.Mature trees left in shelterwood are mostly sugar maple with a few black cherry. Approximately 20-22 inch DBH on average.																														
33	4110 - Sugar Maple Association	Sawtimber Well	32.5	60	81-110	N/A	South part is very steep hill sides with forest road in valley. Would be very difficult for harvesting in this area.																														
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34	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	31.3	63	111-140	N/A																															
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35	4139 - Aspen, Mixed Deciduous	Sapling Well	11.0	15	Unspecified	N/A	Also contains a few beech trees (save). Was harvested July of 2011 Wind blow-downs in storm July 2006.																														
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36	4130 - Aspen	Sapling Well	18.1	6	Immature	N/A	Stand harvested in May of 2020.																																					
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37	4110 - Sugar Maple Association	Sawtimber Well	30.0	100	51-80	N/A	Also contains occasional beech, elm																																					
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38	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	4.6	90	51-80	N/A																																						
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39	4110 - Sugar Maple Association	Sawtimber Well	29.8	95	81-110	N/A	Lots of ironwood of various hts. regen= 1-2' tall sugar maple, iron, bass Also contains a few hemlock.																																					
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40	6229 - Mixed Lowland Shrub	None	9.6			No	flood plain adjacent to Betsie River.																																					
41	6112 - Lowland Aspen	Poletimber Medium	3.0	70	Unspecified	N/A	Fragile soils, very wet in places Would not be able to commercial harvest= would not be able to get to the stand due to adjacent cedar lowlands. Some storm blow-down damage from storm on 7/19/06.																																					
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Red Maple	Medium	Variable	Variable																																									
42	42110 - Planted Red Pine	Sawtimber Well	17.4	63	141-170	N/A	Was row thinned in June 2011 Heavy understory of maple and ash.																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>10</td><td>Log</td><td>14</td><td></td></tr><tr><td>Red Pine</td><td>85</td><td>Log/Pole</td><td>12</td><td>63</td></tr><tr><td>Black Cherry</td><td>5</td><td>Log</td><td>12</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Sugar Maple</td><td>Full</td><td>Variable</td><td>Variable</td></tr><tr><td>Beech</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	10	Log	14		Red Pine	85	Log/Pole	12	63	Black Cherry	5	Log	12		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	Variable	Variable	Sugar Maple	Full	Variable	Variable	Beech	Low	Variable	Variable	
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Beech	Low	Variable	Variable																																									



MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
43	3205 - Mixed Upland Shrub	None	1.6			No																																																							
44	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	45.2	110	81-110	N/A	Open/park-like Fragile, dark, wet soils.Several springs/drainages that go into Betsie River.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>15</td><td>Log/Pole</td><td>15</td><td></td><td>Sugar Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Yellow Birch</td><td>5</td><td>Log/Pole</td><td>11</td><td></td><td>Hemlock</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Bigtooth Aspen</td><td>15</td><td>Log/Pole</td><td>13</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Northern White Cedar</td><td>35</td><td>Log/Pole</td><td>10</td><td>110</td><td></td><td></td><td></td><td></td></tr><tr><td>Hemlock</td><td>30</td><td>Log/Pole</td><td>10</td><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	15	Log/Pole	15		Sugar Maple	Medium	Variable	Variable	Yellow Birch	5	Log/Pole	11		Hemlock	Medium	>20 feet	>20 feet	Bigtooth Aspen	15	Log/Pole	13						Northern White Cedar	35	Log/Pole	10	110					Hemlock	30	Log/Pole	10					
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45	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	21.7	63	111-140	N/A																																																							
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White Pine	80	Log/Pole	10	63	Ironwood	Low	Variable	Variable																																																					
Black Cherry	10	Log/Pole	14																																																										
46	4139 - Aspen, Mixed Deciduous	Sapling Well	43.6	14	1-50	N/A	Was harvested in June of 2011. Some steep hillsides. Contains some scattered mature retention trees and some retention Islands as well.																																																						
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Black Cherry	20	Sapling	2	14																																																									
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47	4110 - Sugar Maple Association	Poletimber Medium	4.4	95	81-110	N/A																																																							
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MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
61	4319 - Mixed Upland Forest	Sawtimber Well	13.6	63	81-110	N/A	Scattered elm.																																																				
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62	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	9.9	65	111-140	N/A	Some nice white pine, but also some weevil damaged.This area was possibly planted with white pine, but no rows were detected.Good diversity of species.																																																				
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Beech	Low	Variable	Variable																																																								
63	3105 - Mixed Upland Herbaceous	None	4.5			No	Managing for sugar maple in the hardwood stands around this opening so protect sugar maple regen. This opening will be used for adjacent stands when harvests occur.																																																				
64	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	10.1	95	51-80	N/A																																																					
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Sugar Maple	Low	Variable	Variable																																																								
65	4110 - Sugar Maple Association	Sawtimber Medium	32.3	100	51-80	N/A	Many multi-stems. Sugar maple doing good in understory...keep management towards this component.																																																				
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>50</td><td>XLog/Log/Pole</td><td>18</td><td>100</td></tr><tr><td>Red Maple</td><td>10</td><td>Log/Pole</td><td>14</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>Black Cherry</td><td>15</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Basswood</td><td>20</td><td>Log/Pole</td><td>14</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	50	XLog/Log/Pole	18	100	Red Maple	10	Log/Pole	14		White Pine	5	Log/Pole	12		Black Cherry	15	Log/Pole	10		Basswood	20	Log/Pole	14				<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Witch Hazel</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Sugar Maple</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	Variable	Variable	Witch Hazel	Low	5 - 10 feet	5 - 10 feet	Sugar Maple	High	Variable	Variable	Red Maple	Low	Variable	Variable				
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66	42110 - Planted Red Pine	Sawtimber Well	5.9	63	141-170	N/A	first thinning done in June of 2011 Lots of hardwoods in understory (saps).																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
67	42110 - Planted Red Pine	Sapling Well	13.8	6	Immature	N/A	9/15/2024 - Mechanical release was completed to get red pine stand back to free to grow status. 9/12/2023 - Stand had year 3 regen survey completed. Stand is currently sitting at around 789 Trees Per Acre and is currently 69% Free to Grow at this time. Jack Pine is the main competition. 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 833 trees per acre. Stand is not currently free to grow at this time, a herbicide treatment is currently recommended. Check stand for year 3 regeneration survey is also recommended. 4/27/21 - site was planted with 12,900 seedlings. 2020 Stand was trenched. Stand was clear cut (December of 2015) to convert to red pine...will need site prep to clean up slash debris due to old jack pine that was mostly dead. After site prep then trench and plant red pine.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Sapling	1	6		
68	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	9.0	60	1-50	N/A	.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density
Sugar Maple		70	Pole	8	60	Sugar Maple	High
Bigtooth Aspen		25	Log/Pole	12		Ironwood	High
Black Cherry		5	Log/Pole	12			
69	4130 - Aspen	Sapling Well	22.5	6	Immature	N/A	Harvested in May/June 2020. sale 61-037-18
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		5	Log/Pole	12			
Bigtooth Aspen		75	Sapling	1	6		
White Pine		15	Log/Pole	12	63		
Black Cherry		5	Sapling	1			
70	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	63.9	63	111-140	N/A	west side 50/50 mix of hwd's to pines. Westside lots of good sugar maple saps and poles in understory. Many blowdowns from storm in July 2006. Many old burn scar wp stumps. Heavy weevil damage.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density
Sugar Maple		20	Log/Pole	14		Sugar Maple	High
Red Maple		5	Log/Pole	14			
Basswood		10	Log	14			
White Pine		60	Log/Pole	10	63		
Black Cherry		5	Log/Pole	12			





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
76	42110 - Planted Red Pine	Poletimber Well	25.9	39	171-200	N/A																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>95</td><td>Pole</td><td>7</td><td>39</td></tr><tr><td>Black Cherry</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	95	Pole	7	39	Black Cherry	5	Pole/Log	8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sugar Maple</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Ironwood</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	< 5 feet	< 5 feet	Ironwood	Low	< 5 feet	< 5 feet														
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Sugar Maple	Medium	< 5 feet	< 5 feet																																												
Ironwood	Low	< 5 feet	< 5 feet																																												
77	4130 - Aspen	Sawtimber Well	57.0	56		N/A	Also some scattered sugar maple of various sizes.																																								
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78	500 - Water	None	1.1			No	part of an old oxbow that was once the Betsie River																																								
79	4133 - Aspen, Mixed Pine	Sapling Well	29.0	10	1-50	N/A	Site was harvested in Dec 2015- into January of 2016. Old white pine plantation with weevil damage throughout. Scattered leave pine and maple trees of best form where left for seed crop. Area had good amount of aspen, red and sugar maple, and basswood. Good mixed natural regen of all these species should occur. (Area had approx. 20% cover of aspen at time of harvest)																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>20</td><td>Log/Pole</td><td>11</td><td>63</td></tr><tr><td>Bigtooth Aspen</td><td>40</td><td>Sapling</td><td>1</td><td>10</td></tr><tr><td>Black Cherry</td><td>20</td><td>Sapling</td><td>1</td><td>10</td></tr><tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>1</td><td>10</td></tr><tr><td>White Pine</td><td>10</td><td>Sapling</td><td>1</td><td>10</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	White Pine	20	Log/Pole	11	63	Bigtooth Aspen	40	Sapling	1	10	Black Cherry	20	Sapling	1	10	Red Maple	10	Sapling	1	10	White Pine	10	Sapling	1	10														
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80	4112 - Maple, Beech, Cherry Association	Sawtimber Well	46.9	125	81-110	N/A	Also has a few elm trees..																																								
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81	4110 - Sugar Maple Association	Sawtimber Well	24.0	90	81-110	N/A	Contains many areas of good advanced sugar maple regen of various size.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
82	3301 - Low Density Deciduous Trees	None	4.6			No	Opening has been used in past for logging landing site and will likely be used again in future. Wildlife Div. 2006 comments: Strawberry, juneberry, rice grass, honeysuckle. Older QA clone with witch hazel in understory. The non-forested part of this stand is "Poverty grass/Cladonia".
		Sub-Canopy Species	Density	Avg. Height	Size		
		Spotted Knapweed	Low	Not Applicable	Not Applicable		
		Quaking Aspen	Low	Variable	Variable		
		White Pine	Trace	Variable	Variable		
		Black Cherry	Medium	Variable	Variable		
		Basswood	Low	Variable	Variable		
		Witch Hazel	Low	5 - 10 feet	5 - 10 feet		
		Poverty Grass	High	Not Applicable	Not Applicable		
		Bracken Fern	Medium	Not Applicable	Not Applicable		
83	42110 - Planted Red Pine	Poletimber Well	19.3	39	171-200	N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species
		Red Pine	90	Pole	7	39	White Pine
		Black Cherry	5	Pole	8		Beech
		Apple (spp.)	5	Pole	5		
				Density	Avg. Height	Size	
				Low	< 5 feet	< 5 feet	
				Low	< 5 feet	< 5 feet	
84	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	6.7	100	1-50	N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species
		Black Cherry	10	Log/Pole	14		Ironwood
		Sugar Maple	20	Pole	6		Sugar Maple
		Red Maple	60	Log/Pole	14	100	
		Basswood	10	Log/Pole	16		
				Density	Avg. Height	Size	
				Medium	Variable	Variable	
				Medium	Variable	Variable	
85	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	61.0	63	141-170	N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species
		Sugar Maple	15	Log/Pole	12		Sugar Maple
		Basswood	5	Log/Pole	16		Ironwood
		Quaking Aspen	10	Log/Pole	10	75	
		White Pine	70	Log/Pole	12	63	
				Density	Avg. Height	Size	
				Medium	Variable	Variable	
				Medium	Variable	Variable	
86	3303 - Mixed Low Density Trees	None	13.6			No	Contains a few scattered old orchard apple trees.



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
91	4119 - Mixed Northern Hardwoods	Sawtimber Well	104.3	85	81-110	N/A	Lower BAs in openings. Lots of natural openings. Average to low quality hardwoods; lots of double stems. Variable BA and quality.
Canopy Species % Cover Size Class DBH Age		Sub-Canopy Species Density Avg. Height Size					
Sugar Maple40Log/Pole1485		IronwoodHighVariableVariable					
Red Maple20Pole/Log9		Witch HazelLowVariableVariable					
Basswood10Log/Pole12		White PineLowVariableVariable					
Quaking Aspen10Log/Pole10		Sugar MapleMedium>20 feet>20 feet					
Black Cherry10Log/Pole10		BeechMediumVariableVariable					
White Pine10Log/Pole12		Sugar MapleLowVariableVariable					
92	4139 - Aspen, Mixed Deciduous	Sapling Well	35.9	6	Immature	N/A	
Canopy Species % Cover Size Class DBH Age		Sub-Canopy Species Density Avg. Height Size					
Sugar Maple20Log/Pole/XLog14		IronwoodHighVariableVariable					
Red Maple15Sapling1		Sugar MapleLowVariableVariable					
Basswood5Sapling1							
Bigtooth Aspen40Sapling16							
White Pine10Pole8							
Black Cherry10Sapling1							
93	4133 - Aspen, Mixed Pine	Poletimber Medium	22.5	69	Unspecified	N/A	
Canopy Species % Cover Size Class DBH Age		Sub-Canopy Species Density Avg. Height Size					
Red Maple5Pole9		White PineHighVariableVariable					
Quaking Aspen60Pole969		IronwoodLowVariableVariable					
White Pine20Pole/Log9		Black CherryMediumVariableVariable					
Black Cherry15Pole/Log9							
94	3101 - Poverty Grass, Cladonia	None	7.0			No	Opening survey was done on this opening by Wildlife Div. in 2006
		Sub-Canopy Species Density Avg. Height Size					
		Broom SedgeLowNot ApplicableNot Applicable					
		Bracken FernLowNot ApplicableNot Applicable					
		White PineTraceVariableVariable					
		Cladonia (Reindeer moss)LowNot ApplicableNot Applicable					
		Spotted KnapweedLowNot ApplicableNot Applicable					
		BeechTraceVariableVariable					
		Witch HazelLow5 - 10 feet5 - 10 feet					
		Blackberry/RaspberryLow5 - 10 feet5 - 10 feet					
		Black CherryMediumVariableVariable					
		Poverty GrassMediumNot ApplicableNot Applicable					



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
104	4133 - Aspen, Mixed Pine	Sapling Well	27.2	5	1-50	N/A	Harvested in April of 2020 to regen and expand aspen and keep stand as diverse multi-species. sale 61-055-18																																																			
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Sub-Canopy Species	Density	Avg. Height	Size																																																							
Red Maple	High	Variable	Variable																																																							
105	4319 - Mixed Upland Forest	Sawtimber Well	61.6	63	81-110	N/A	Also contains scattered elm.																																																			
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106	4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.1	103	141-170	N/A																																																				
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107	3101 - Poverty Grass, Cladonia	None	6.8			No	Contains old apple orchard trees and several old black walnut trees.																																																			
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109	3303 - Mixed Low Density Trees	None	2.0			No																																													
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110	4133 - Aspen, Mixed Pine	Poletimber Well	13.8	53		N/A	Aspen doing very well.																																												
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111	4139 - Aspen, Mixed Deciduous	Sapling Well	81.6	14	1-50	N/A	Prior to harvest this was plantation white pine that was heavily damaged by weevil Area was harvested in June of 2012. Better quality White pine was marked to leave, and hardwood species were marked or spec cut to leave some residual for diversity. Goal was to leave diverse species mix stand but open it up to allow lots of sunlight for regeneration and expansion of aspen component.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
112	4133 - Aspen, Mixed Pine	Sapling Well	140.6	14	Unspecified	N/A	Harvest completed in December of 2011. Goal for mixed, multi-species management.																																								
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113	42110 - Planted Red Pine	Sapling Well	22.4	15	Immature	N/A	This area was formerly a strip plantation of jack pine and red pine. The jack pine was clearcut 10 years before the red. The red pine strips were clearcut in Dec. of 2009. The site was all rollerchopped in spring of 2010 to knock back jack pine saps and chop slash. Site was then trenched and planted in spring of 2011. Site planted to Red pine April, 2011 FTP#C61-493																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>95</td><td>Sapling/Pole</td><td>3</td><td>15</td></tr><tr><td>Black Cherry</td><td>5</td><td>Log/Pole</td><td>12</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	95	Sapling/Pole	3	15	Black Cherry	5	Log/Pole	12																										
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114	4319 - Mixed Upland Forest	Sawtimber Well	36.3	75	111-140	N/A	A natural pine stand. Manage mostly for WP with some mixed hardwoods, including some sawlog sugar maple.																																								
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115	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	24.8	85	51-80	N/A	Variable stand--many natural openings.																																								
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Ironwood	Medium	Variable	Variable																																												
116	4130 - Aspen	Poletimber Well	16.9	39	Unspecified	N/A																																									
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Black Cherry	Low	Variable	Variable																																												



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
126	4199 - Other Mixed Upland Deciduous	Poletimber Poor	20.9	80	1-50	N/A	Grass in openings and ferns, with witch hazel and honeysuckle. Lots of variable size classes mixed with natural openings.			
Canopy Species American Elm		% Cover 20	Size Class Pole	DBH 8	Age	Sub-Canopy Species Honeysuckle (spp.)		Density Medium	Avg. Height Variable	Size Variable
Canopy Species Quaking Aspen		% Cover 35	Size Class Pole	DBH 8	Age	Sub-Canopy Species Bigtooth Aspen		Density Medium	Avg. Height Variable	Size Variable
Canopy Species Black Cherry		% Cover 45	Size Class Pole/Log	DBH 8	Age 80	Sub-Canopy Species Serviceberry (Juneberry)		Density Medium	Avg. Height 5 - 10 feet	Size 5 - 10 feet
						Sub-Canopy Species Witch Hazel		Density Medium	Avg. Height Variable	Size Variable
						Sub-Canopy Species Black Cherry		Density High	Avg. Height Variable	Size Variable
127	429 - Mixed Upland Conifers	Sawtimber Well	6.8	91	111-140	N/A	Old experimental forest. Majority of stand is of poor quality, form: forks, curves, limby, etc. 95% Leave for historic purposes. A lot of the Scotch pine is dead or dying and never thinned.			
Canopy Species Norway Spruce		% Cover 5	Size Class XLog/Log	DBH 20	Age 91	Sub-Canopy Species Ironwood		Density High	Avg. Height Variable	Size Variable
Canopy Species Scotch Pine		% Cover 10	Size Class Log/Pole	DBH 11	Age 91	Sub-Canopy Species Sugar Maple		Density High	Avg. Height Variable	Size Variable
Canopy Species Austrian Pine		% Cover 70	Size Class Log/Pole	DBH 16	Age 91	Sub-Canopy Species Red Maple		Density Medium	Avg. Height Variable	Size Variable
Canopy Species Red Maple		% Cover 10	Size Class Pole	DBH 8	Age					
Canopy Species Sugar Maple		% Cover 5	Size Class Pole	DBH 8	Age					
128	4110 - Sugar Maple Association	Sawtimber Well	4.6	100	81-110	N/A	occasional ash, beech, elm			
Canopy Species Sugar Maple		% Cover 75	Size Class Log/Pole	DBH 12	Age 100	Sub-Canopy Species Sugar Maple		Density Low	Avg. Height Variable	Size Variable
Canopy Species Basswood		% Cover 5	Size Class Log/Pole	DBH 12	Age	Sub-Canopy Species Ironwood		Density High	Avg. Height Variable	Size Variable
Canopy Species Black Cherry		% Cover 15	Size Class Log/Pole	DBH 10	Age					
Canopy Species Bigtooth Aspen		% Cover 5	Size Class Log/Pole	DBH 12	Age					
129	4119 - Mixed Northern Hardwoods	Sawtimber Well	33.2	100	81-110	N/A	Variable stand in species and BA. Also contains a few scattered elm trees.			
Canopy Species Sugar Maple		% Cover 40	Size Class Log/Pole	DBH 16	Age 100	Sub-Canopy Species Sugar Maple		Density Low	Avg. Height Variable	Size Variable
Canopy Species Red Maple		% Cover 15	Size Class Log/Pole	DBH 12	Age	Sub-Canopy Species Ironwood		Density Medium	Avg. Height Variable	Size Variable
Canopy Species Beech		% Cover 5	Size Class XLog/Log	DBH 18	Age					
Canopy Species Bigtooth Aspen		% Cover 10	Size Class Log/Pole	DBH 12	Age					
Canopy Species White Pine		% Cover 10	Size Class XLog/Log	DBH 22	Age					
Canopy Species Black Cherry		% Cover 10	Size Class Log/Pole	DBH 12	Age					
Canopy Species Ironwood		% Cover 5	Size Class Pole	DBH 6	Age					
Canopy Species Basswood		% Cover 5	Size Class Log/Pole	DBH 14	Age					
130	4130 - Aspen	Poletimber Well	6.6	37	Unspecified	N/A				
Canopy Species Quaking Aspen		% Cover 20	Size Class Pole	DBH 5	Age 37	Sub-Canopy Species Witch Hazel		Density Medium	Avg. Height 5 - 10 feet	Size 5 - 10 feet
Canopy Species Bigtooth Aspen		% Cover 70	Size Class Pole	DBH 5	Age 37	Sub-Canopy Species Honeysuckle (spp.)		Density Medium	Avg. Height 5 - 10 feet	Size 5 - 10 feet
Canopy Species Black Cherry		% Cover 10	Size Class Pole	DBH 5	Age 37					





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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
146	4110 - Sugar Maple Association	Sapling Well	3.5	14	1-50	N/A	sugar maple understory height is variable 2 to 30 feet tall...mostly advancedWas row-thinned in 2005.Shelterwood Harvest was done in fall of 2020sale 61-049-18 (2)		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		20	Pole/Log	9	63	Sugar Maple		Full	Variable
Sugar Maple		80	Sapling	2	14				

147	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.4	105	81-110	N/A	This stand is a steep slope that was left for retention in the surrounding harvested stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		40	Log/Pole	14	105	Beech		Medium	Variable
Beech		30	Log/Pole	14		Ironwood		Medium	Variable
Bigtooth Aspen		15	Log/Pole	12					
Basswood		15	Log/Pole	12					

148	4110 - Sugar Maple Association	Sawtimber Medium	1.9	95	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		45	XLog/Log	18	95	Witch Hazel		Medium	Variable
Sugar Maple		15	Log/Pole	16		Ironwood		Medium	Variable
Black Cherry		25	XLog/Log	18					
Red Maple		15	Pole/Log	8					

149	42110 - Planted Red Pine	Sawtimber Well	19.4	63	171-200	N/A	Third row thinned in fall of 2009 TSI work to girdle and cut hardwoods was done many years ago		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	63	Sugar Maple		Medium	Variable
						Black Cherry		Medium	Variable
						Ironwood		Medium	5 - 10 feet
									5 - 10 feet

150	4130 - Aspen	Sapling Well	5.0	6	Immature	N/A	Stand was harvested in May/june 2020 sale 61-037-18		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		40	Sapling	1	6	Sugar Maple		Medium	Variable
Quaking Aspen		60	Sapling	1	6				

151	4110 - Sugar Maple Association	Poletimber Medium	2.0	45	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		90	Pole	8	45	Sugar Maple		High	Variable
Quaking Aspen		10	Pole	9		Ironwood		Low	Variable



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
152	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.6	103	111-140	N/A																																																							
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153	4119 - Mixed Northern Hardwoods	Sawtimber Well	27.3	103	111-140	N/A																																																							
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154	4130 - Aspen	Sapling Well	19.0	6	Immature	N/A																																																							
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155	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.5	103	51-80	N/A																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
156	3103 - Rubus-Fern	None	2.3			No	Was used as timber sale landing in 2019 and will likely be used again in future harvests of adjacent stands.	
157	4130 - Aspen	Sapling Well	8.9	6		N/A	Harvested in May/June 2020. sale 61-037-18	
158	4130 - Aspen	Sapling Well	4.7	6		N/A	Stand harvested in May-june of 2020.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
161	4130 - Aspen	Sapling Well	20.1	6		N/A	Stand harvested in June 2020. scattered mature retention trees for seed and species diversity and slight shade for maple regeneration			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Sugar Maple	5	Log/Pole	11	100					
	Basswood	3	Log/Pole	12						
	Black Cherry	10	Sapling	1						
	Bigtooth Aspen	82	Sapling	1	6					
162	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	11.7	70	51-80	N/A	Most of stand has steep hillside.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Sugar Maple	45	Log	14	70	Ironwood		Medium	Variable	Variable
	Basswood	30	Log/Pole	14		Witch Hazel		Medium	5 - 10 feet	5 - 10 feet
	Quaking Aspen	20	Log/Pole	10	70	Sugar Maple		Medium	Variable	Variable
	Bigtooth Aspen	5	Log/Pole	12	70	Beech		Low	Variable	Variable