



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61027

Entry Year 2018

Acreage: 3,050

County Benzie

Management Area: Benzie Outwash

Revision Date: 2016-06-09

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 Benzie Outwash management area (MA). 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 has a few scattered out lots in private ownership. Three of these locations have cabins built upon. The lots are all very small in size and many are not surveyed. The State should pursue the purchase of the lots (lots without structures) 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, 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, Traverse City)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift are the Devonian Ellsworth and Antrim Shales. These shales are used for cement products. A gravel pit is located two miles to the north and there should be some potential. This area is located just north of the Niagaran reef trend and is in an area of Antrim Shale leasing and development. All of the State mineral rights in the Compartment are leased for oil and gas development. (Tom Hoane, DNR Geologist, 9/07/06).

Vehicle Access:

There are many gravel and seasonal county roads throughout the compartment within this area 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 (T.N. 1/26/16, Parks and Recreation Division, Cadillac)

Fire Protection:

This area has wildfire protection by Thompsonville Fire Department and the DNR Platte River and Traverse City Field Offices. 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:

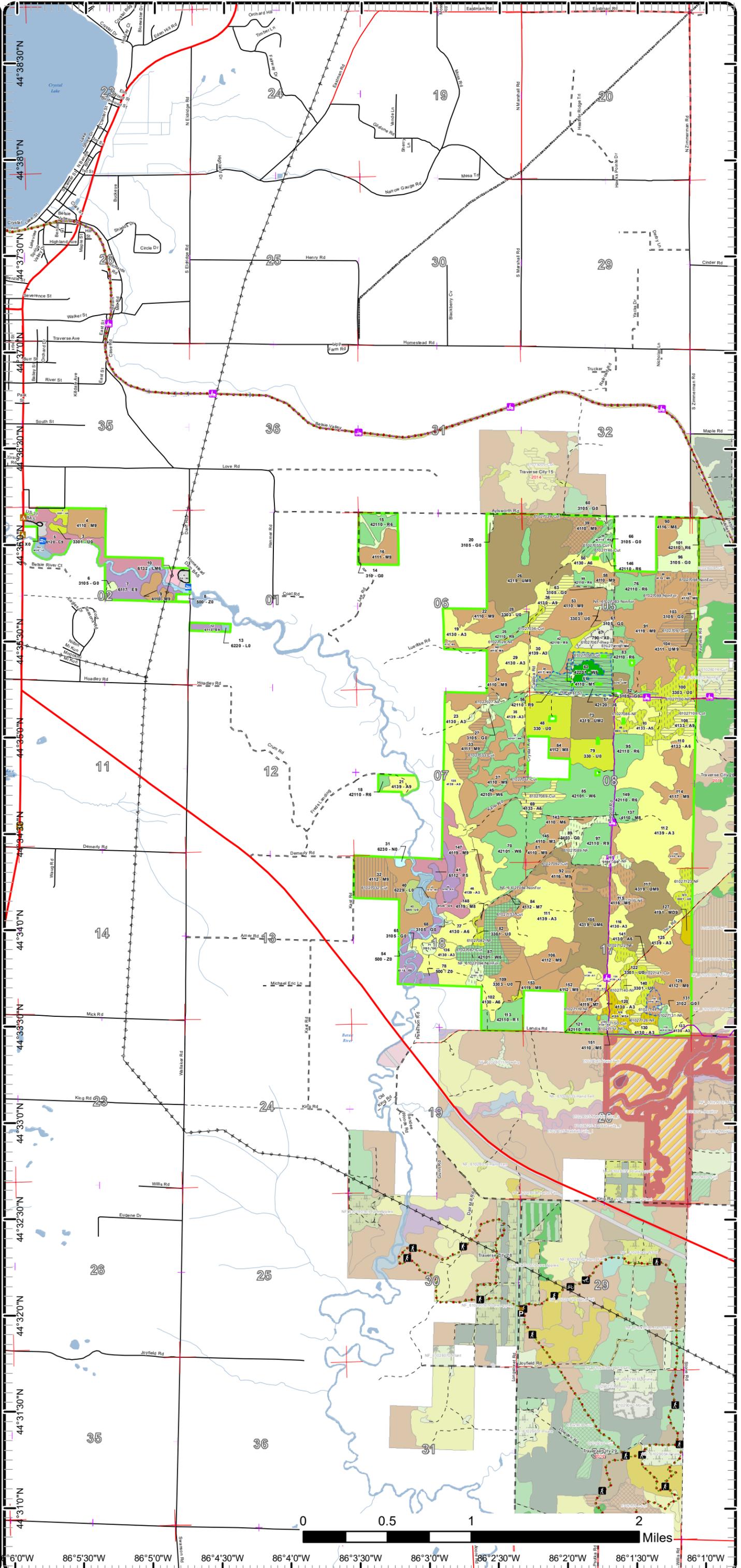
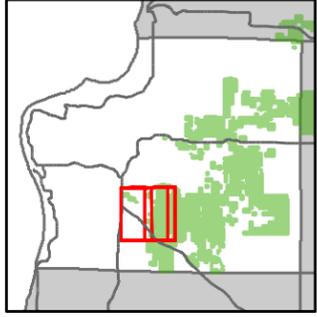
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

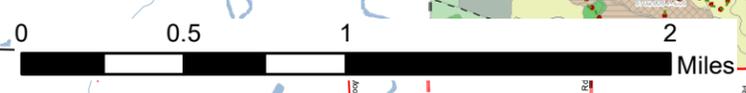
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 27
 T 25N R14W 05-08, 17, 18
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Benzie Outwash
 YOE: 2018
 Acres: 3050 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 6/9/2016
 Map Phase: Web - Post



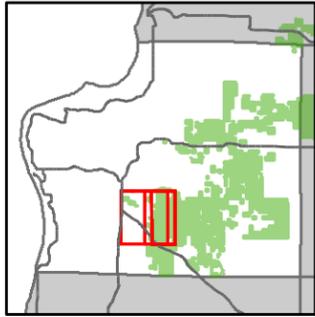
- Miris Corners
- + Remonumented Section Corners
- Bridges
- Culverts
- Boating Access Site
- Campground
- Snowmobile Trails
- Designated Hiking Trails
- - Designated Bicycle Trails
- - Designated Equestrian Trails
- - Designated Snowmobile Trails
- Designated Railroad
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Patch/Strip Cut (Femelschlag)
- Site Prep
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Opening Maintenance
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated
- Lakes



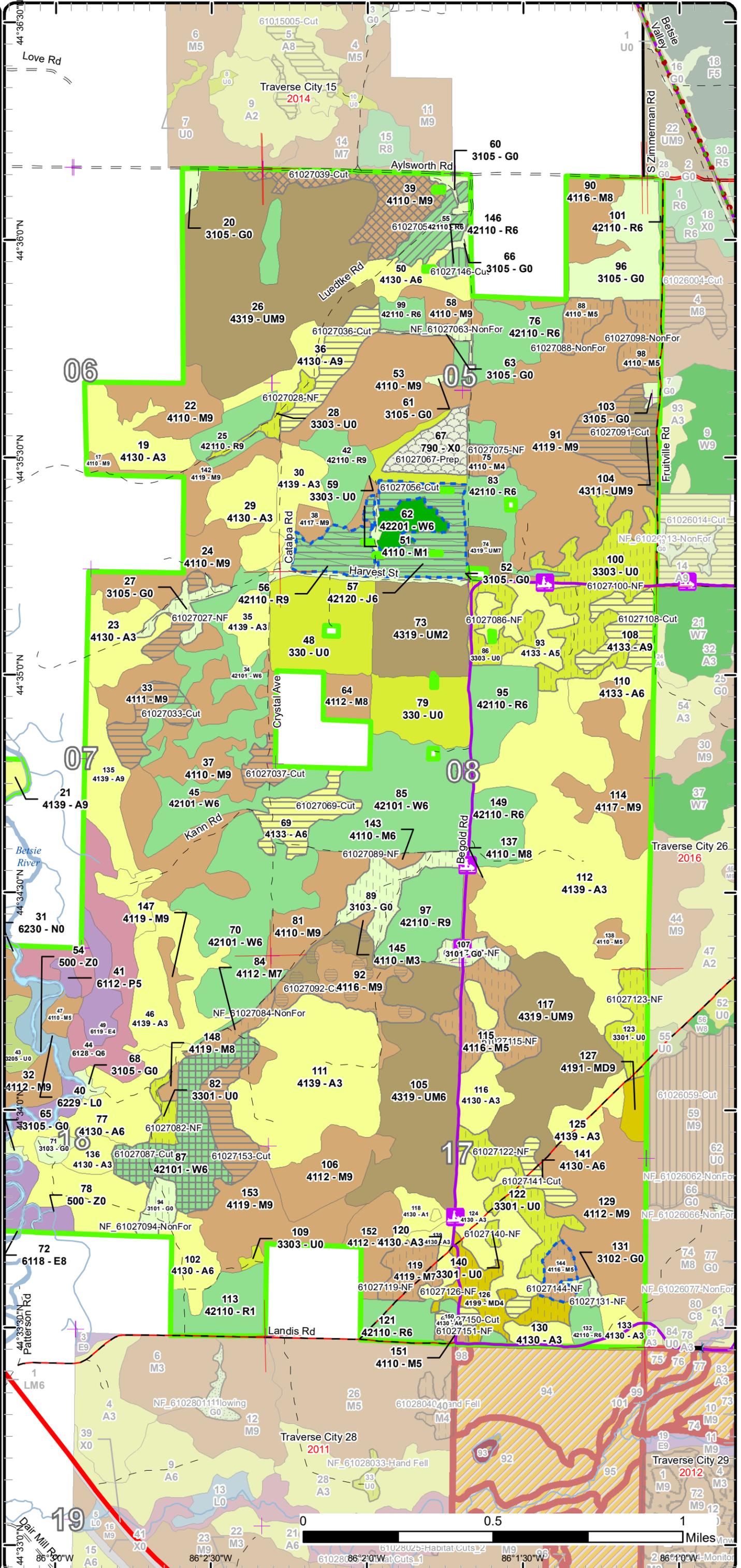
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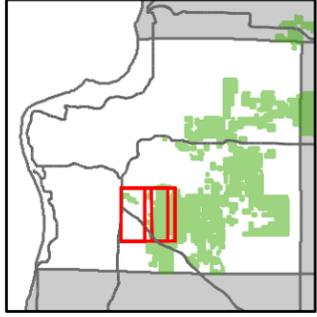


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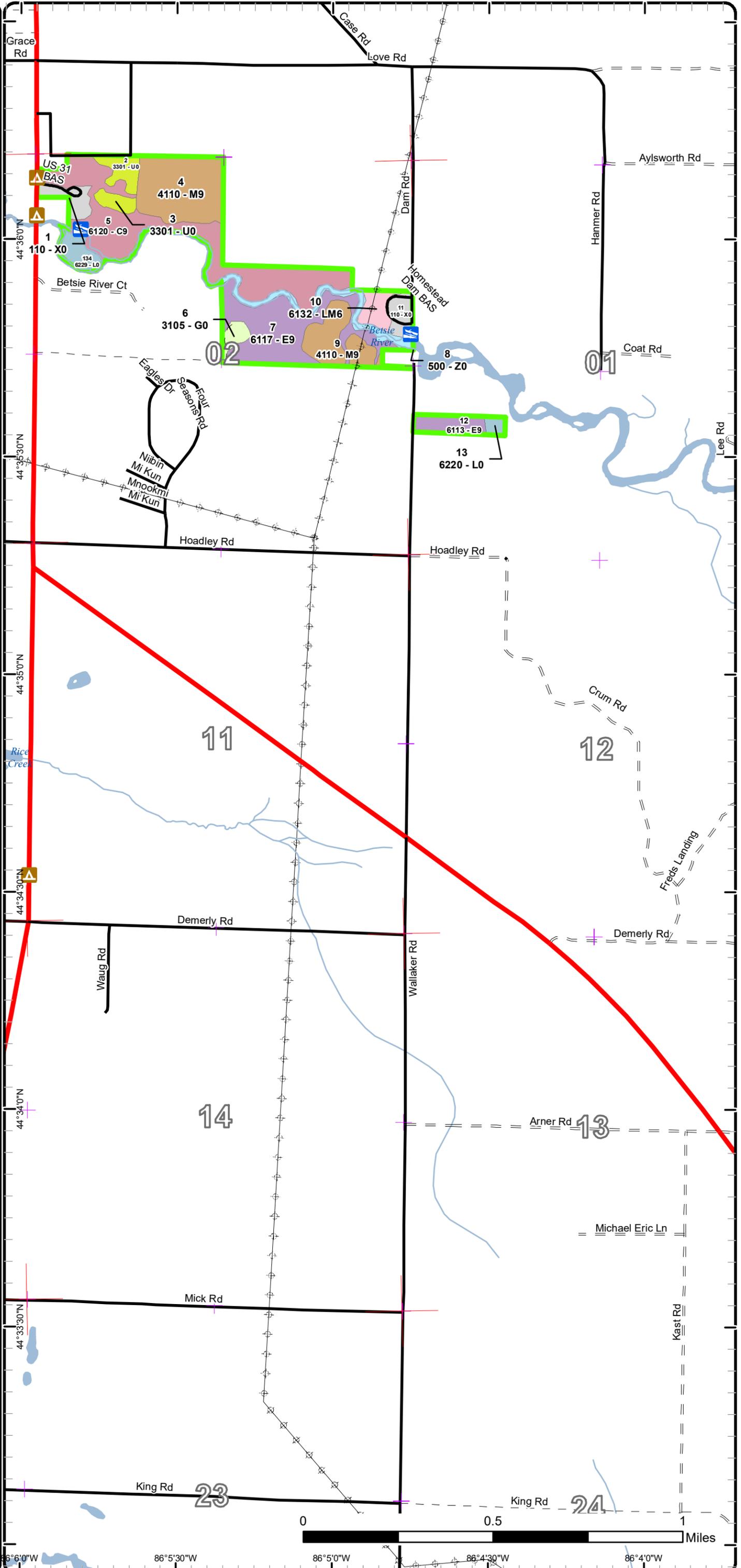


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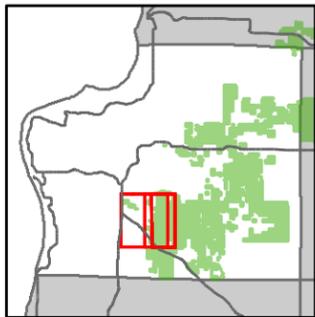


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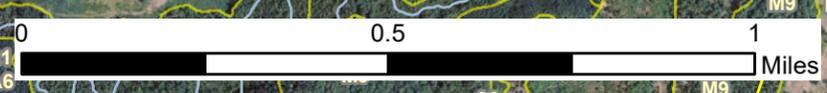
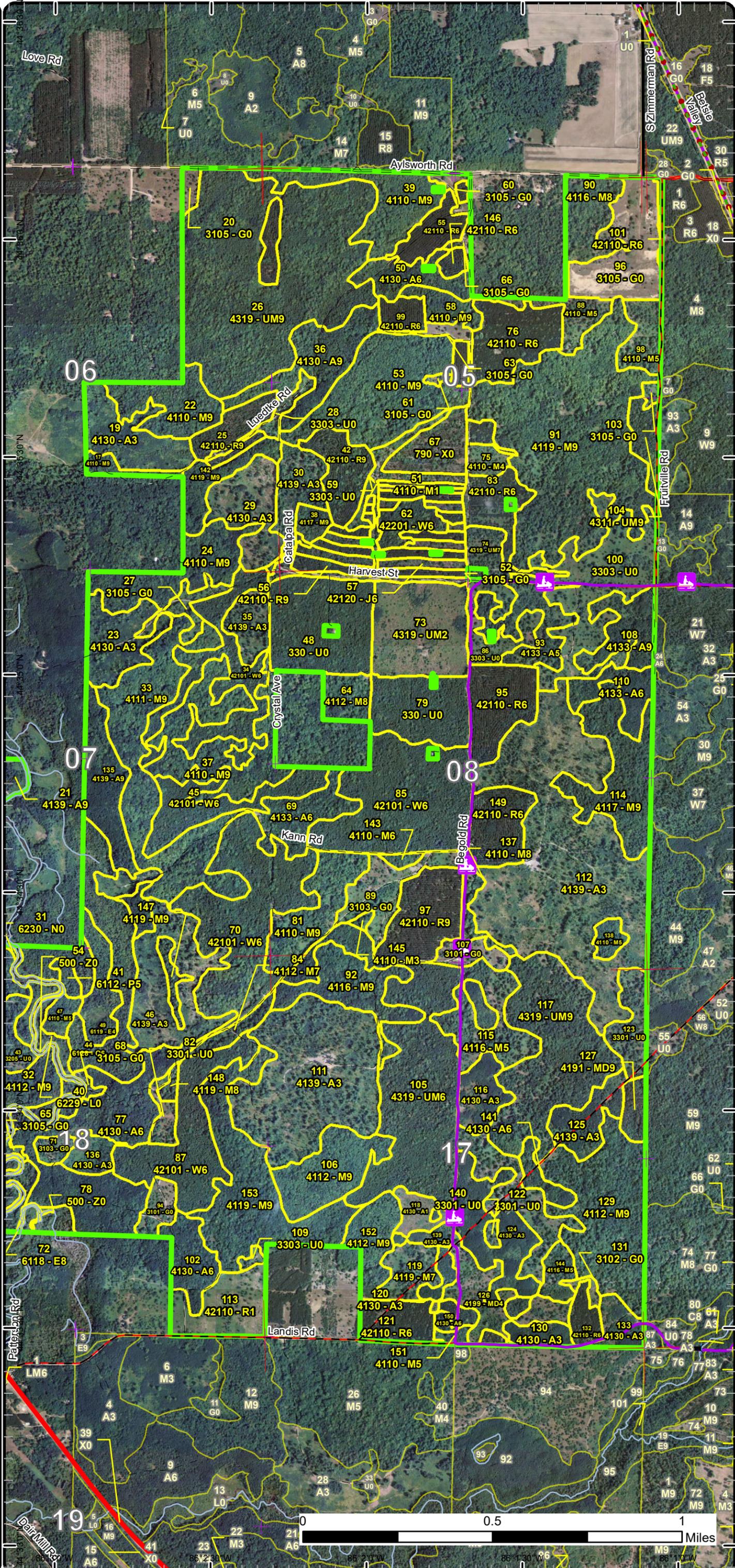


Stand Boundary Map

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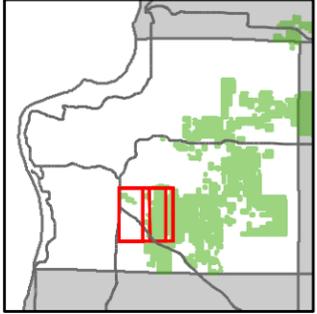


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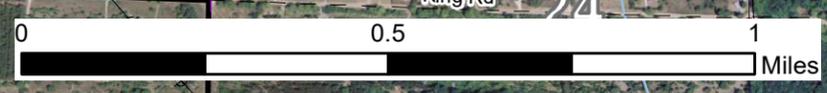
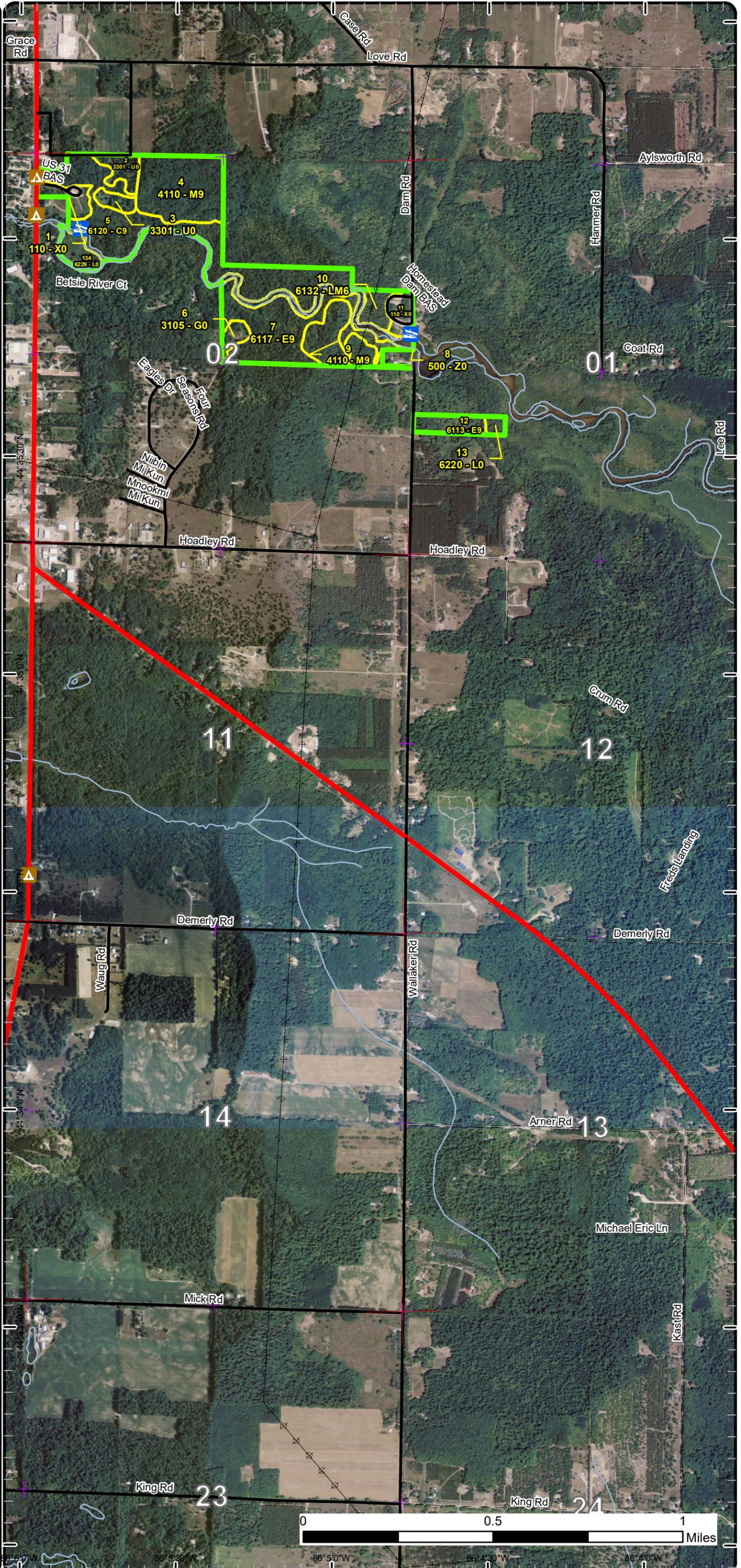


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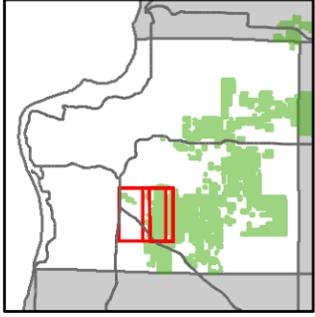
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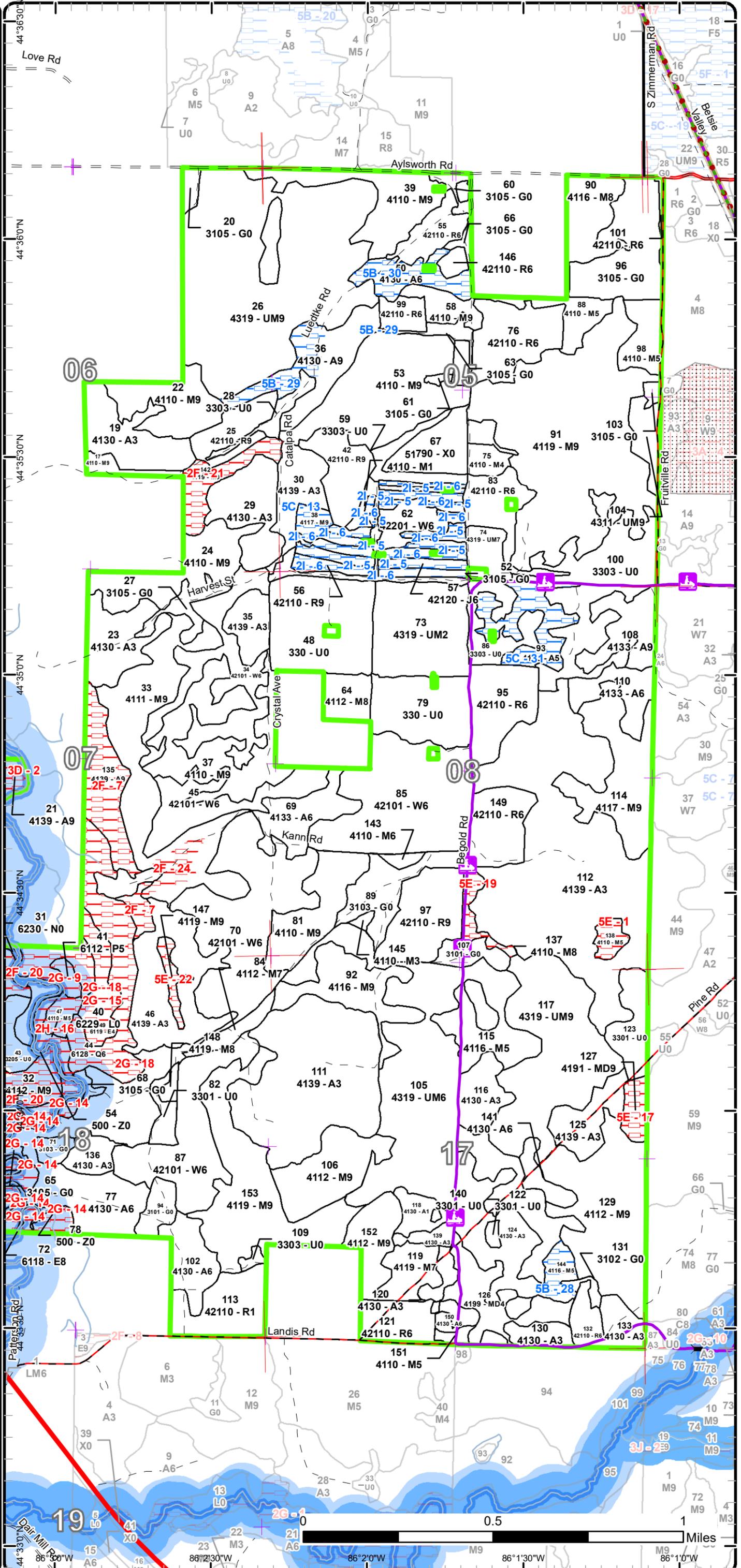
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Special Conservation Areas & Site Conditions Map

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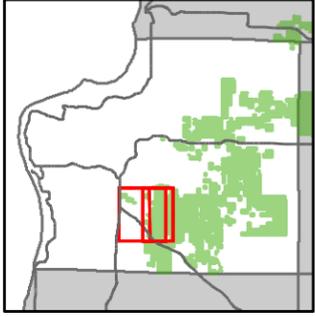


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- Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- Special Conservation Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Other SCA (No Category Assigned)

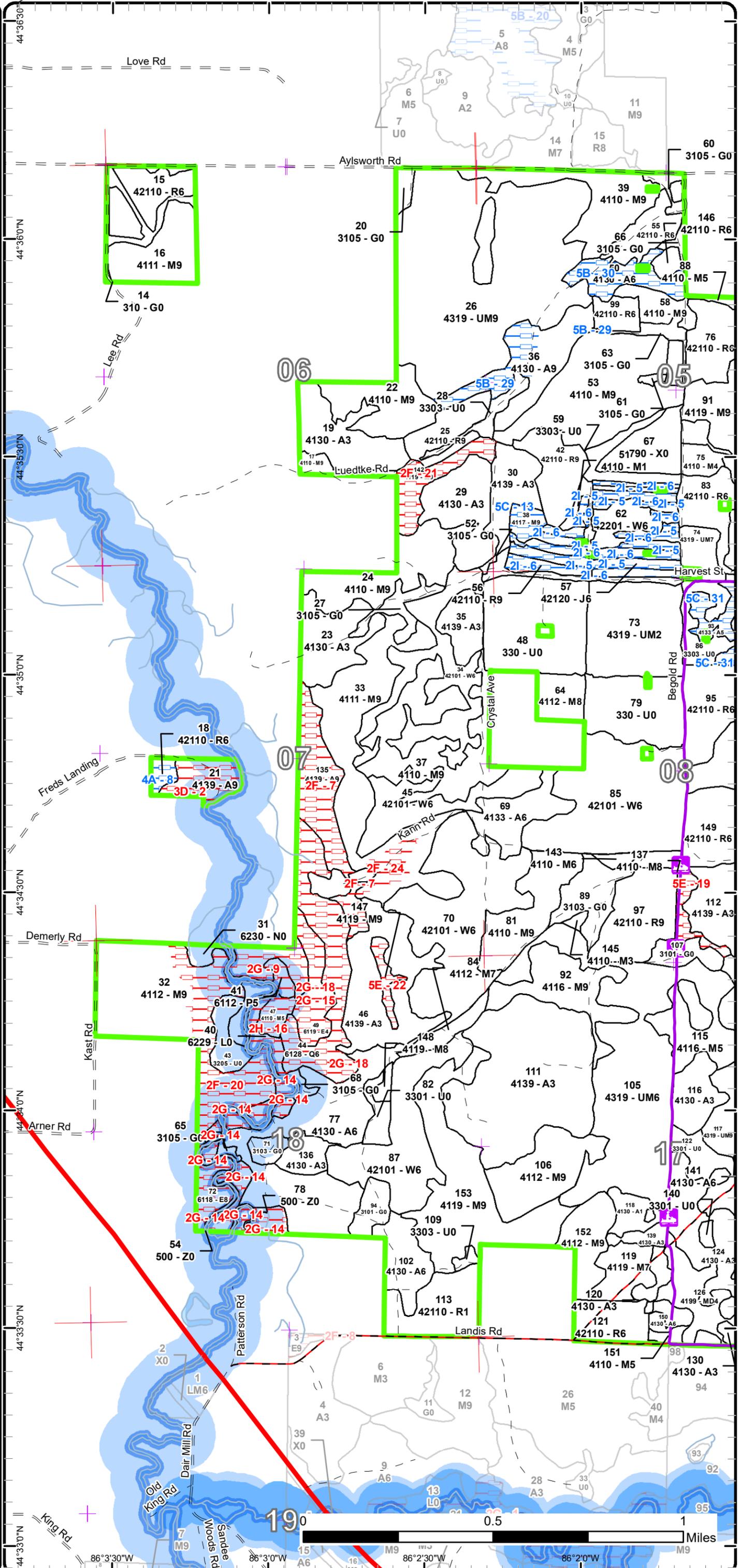


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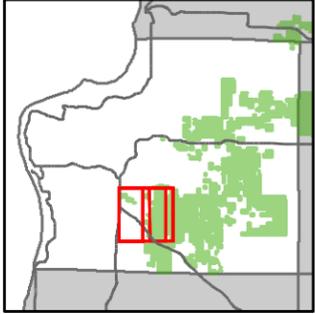


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- 4A: No Markets Available for these Forest Products
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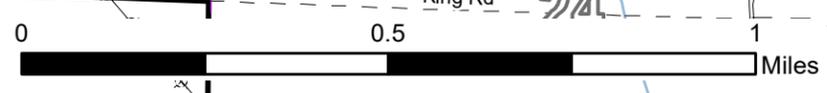
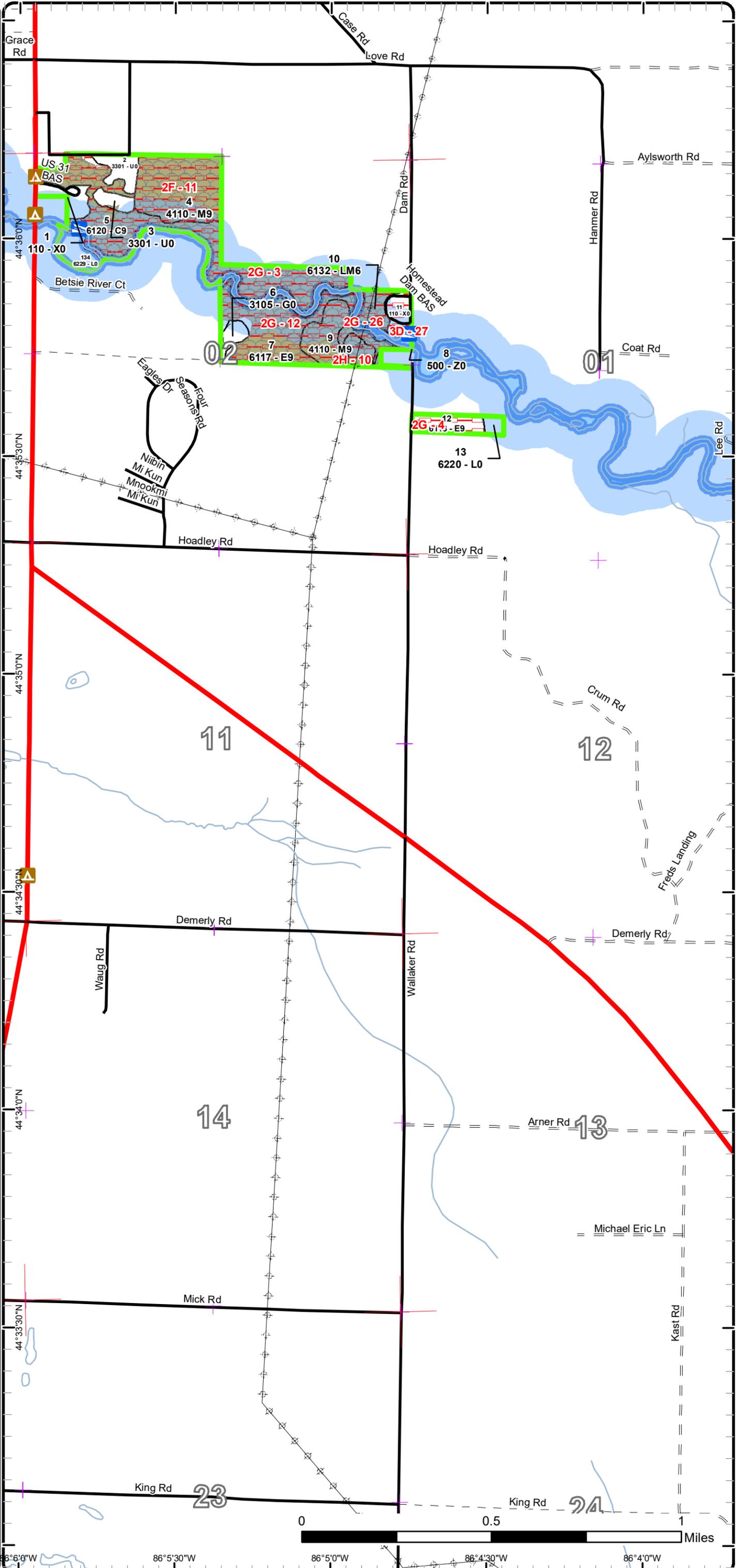


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- SCA Removal
- Unavailable
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- 3D: Recreational / Scenic values
- Stand Boundaries
- Special Conservation Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- Potential Old Growth



86°6'0"W 86°5'30"W 86°5'0"W 86°4'30"W 86°4'0"W

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	324	57	80	0	90	38	67	39	0	0	0	0	0	0	0	0	0	695
Bare/Sparsely Vegetated	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Cedar	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	44
Herbaceous Openland	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
Jack Pine	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	17
Low-Density Trees	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	45
Lowland Deciduous	0	0	0	0	0	0	0	0	0	14	32	27	0	0	0	0	0	0	73
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	21	6	0	0	0	0	0	0	0	0	27
Northern Hardwood	0	0	0	0	11	7	26	36	76	160	294	166	0	0	0	0	0	123	899
Red Pine	0	23	0	69	0	0	153	25	0	0	0	0	0	0	0	0	0	0	270
Upland Mixed Forest	0	0	40	0	0	0	223	75	8	0	0	0	0	0	0	0	0	0	346
Upland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
White Pine	0	0	0	0	0	0	239	0	0	0	0	0	0	0	0	0	0	0	239
Total	388	347	97	149	11	97	679	223	144	180	326	286	0	0	0	0	0	123	3050



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2018

Acres of Harvest

Compartment 27
Total Compartment Acres: 3,050

Commercial Harvest - 286
Harvests with Site Condition - 42
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	63	0	0	0	0	0	0	0	0	63
Northern Hardwood	69	28	33	0	37	0	0	0	0	167
Red Pine	42	0	0	0	3	12	0	0	0	57
White Pine	0	0	0	40	0	0	0	0	0	40
Total	174	28	33	40	40	12	0	0	0	328

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	328	16	0	0	0	0	0	256	0	599
Next Step	0	58	58	0	16	0	273	0	0	404
Total	328	73	58	0	16	0	273	256	0	1003



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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27	61027027-NF	7.3	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No **Site Condition:**

Prescription Selectively had fell some of the encroaching woody vegetation to maintain the upland brush community. Work to retain quality mature sugar maple and regen. Leave scattered mast bearing trees and shrubs

Next Step
Treatments:

Acceptable
Regen:

Other Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May want to fertilize plantings and protect with wire cages or tubex.

Proposed Start Date: 10/01/2017

28	61027028-NF	5.5	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No **Site Condition:**

Prescription Selectively had fell some of the encroaching woody vegetation to maintain the upland brush community. Work to retain quality mature sugar maple and regen. Leave scattered mast bearing trees and shrubs

Next Step
Treatments:

Acceptable
Regen:

Other Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May want to fertilize plantings and protect with wire cages or tubex.

Proposed Start Date: 10/01/2017

32	61027032-Cut	37.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	81-110	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Select mark good form and health sugar maple, cherry and basswood trees to retain for shelterwood protection as well as seed production. Harvest all other trees. Keep and conifer trees for diversity.

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

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

Other
Comment:

Proposed Start Date: 10/01/2017

33	61027033-Cut	20.9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Harvest all hardwoods to open area for aspen regeneration. Harvest white pine as needed to open area to increase sunlight. Mark scattered trees and possibly small islands for retention. North area may have little or no retention due to small size.

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

Acceptable aspen, sugar maple, basswood, cherry
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
36	61027036-Cut	16.2	4130 - Aspen	Sawtimber Well	60		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No **Site Condition:**

Prescription Clear cut area to open up for aspen regeneration. Mark leave trees of healthy sugar maple and basswood scattered in stand. Create retention island around pocket of advanced sugar maple in north east area of stand near edge of stand 53. Landing can be located in stand 63 as trucking would be difficult on road west of harvest area.

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

Acceptable Regen: aspen, maple, basswood, elm

Other Comment:

Proposed Start Date: 10/01/2017

37	61027037-Cut	6.5	4110 - Sugar Maple Association	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Harvest area to expand and regenerate aspen component. Harvest all hardwoods and pine as needed to open area up. Mark leave tree retention of various species scattered in stand. Mark most mature sugar maple for retention.

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

Acceptable Regen: aspen, maple, cherry, elm, white pine

Other Comment:

Proposed Start Date: 10/01/2017

39	61027039-Cut	28.0	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Select mark harvest. Remove poor form trees. Mark following complete marker guidelines...leaving best tree in place. Mark down to around residual of approximately 80 sf BA, but areas may be variable.

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

Acceptable Regen: maple, basswood, cherry

Other Comment:

Proposed Start Date: 10/01/2017

55	61027055-Cut	12.4	42110 - Planted Red Pine	Poletimber Well	53	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Select mark to remove approximately 1/3 volume.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2017



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
56	61027056-Cut	42.0	42110 - Planted Red Pine	Sawtimber Well	61	171-200	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal

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

Prescription Harvest these plantation strips with the adjacent intermingled strips of jack (stand 57) to prepare site for replanting of red pine. Possibly mark some
Specs: leave red pine near roads on south and east sides for visual management. Also, mark or designate hardwood component to leave for diversity.

Next Step SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable planted red pine
Regen:

Other This is in an area of old subdivisions. There are 4 small private owned lots within this stand that will either need to be purchased or surveyed prior to
Comment: proceeding with the proposed harvest

Proposed Start Date: 10/01/2017

67	61027067-Prep	15.7	790 - Other Bare/Sparsely Vegetated	Nonstocked	0	Unspecified	SitePrep	Other - Specify	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Site prep to bulldoze all slash into pile(s) then burn piles. After slash piles have been burned, then trench and plant site to red pine.
Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable red pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

69	61027069-Cut	18.4	4133 - Aspen, Mixed Pine	Poletimber Well	50	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Clearcut all species to regenerate and expand aspen type. Mark to leave most sugar maple trees of good form and health and possibly a few
Specs: cherry. Mark to leave some scattered healthy white pine as well.

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

Acceptable aspen, maple, cherry
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

75	61027075-NF	5.3	4110 - Sugar Maple Association	Poletimber Poor	75	1-50	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No **Site Condition:**

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
82	61027082-NF	5.4	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal

Habitat Cut: No **Site Condition:**

Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Work to retain quality sugar maple and sm regen. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover.

Next Step
Treatments:

Acceptable
Regen:

Other Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May want to fertilize plantings and protect with wire cages or tubex.

Proposed Start Date: 10/01/2017

86	61027086-NF	14.6	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No **Site Condition:**

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover.
Specs: Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

87	61027087-Cut	39.5	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	53	111-140	Harvest	Seed Tree with Retention	42201 - Natural White Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Harvest all weevil damaged white pine. Select mark to leave better form white pine trees scattered uniformly. Harvest all hardwoods to regenerate aspen, cherry, maple. Mark retention trees of all species (of better form/health). Goal for mix species stand.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable white pine, maple, aspen, cherry
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

88	61027088-NonFor	8.0	4110 - Sugar Maple Association	Poletimber Medium	78	51-80	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription SGG 11/27/06 - Selectively had fell some of the encroaching woody vegetation to maintain the upland brush community. Leave scattered mast bearing trees and shrubs. Work to retain quality mature suger maple and regen.

Next Step
Treatments:

Acceptable
Regen:

Other Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May want to fertilize plantings and protect with wire cages or tubex.

Proposed Start Date: 10/01/2017



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
89 61027089-NF	18.9	3103 - Rubus-Fern	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal

Habitat Cut: No Site Condition:

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
 Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

91 61027091-Cut	26.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	75	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Harvest all aspen, ironwood, maple and cherry. Mark leave trees of better form/health maple and basswood scattered throughout the area. Leave
Specs: most of the white pine, but mark some to cut that are weevil damaged or poor condition.

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

Acceptable aspen, maple, pine, basswood
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

92 61027092-Cut	33.2	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	57	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Cut all aspen and ironwood to regenerate and expand aspen component. Keep zones thicker to sugar maple in higher BA, but can lightly thin by
Specs: selection. Select mark other hardwoods as well throughout. May want to consider harvesting most of the cherry due to poor form and health. Mark any white pine to cut if needed to remove poor form or to open areas for aspen regen.

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

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

Other
Comment:

Proposed Start Date: 10/01/2017

98 61027098-NonFor	11.6	4110 - Sugar Maple Association	Poletimber Medium	78	51-80	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription SGG 11/27/06 - Selectively had fell some of the encroaching woody vegetation to maintain the upland brush community. Work to retain quality
Specs: mature sugar maple and regen. Leave scattered mast bearing trees and shrubs.

Next Step
Treatments:

Acceptable
Regen:

Other Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May want to fertilize plantings and protect with wire
Comment: cages or tubex.

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
100	61027100-NF	47.2	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal

Habitat Cut: No

Site Condition:

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
 Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

107	61027107-NF	7.2	3101 - Poverty Grass, Cladonia	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No

Site Condition:

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
 Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

108	61027108-Cut	17.4	4133 - Aspen, Mixed Pine	Sawtimber Well	65	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut area for aspen regeneration. Cut all aspen, maple, cherry and marked white pine. Retain scattered (better form/health) trees of maple and
Specs: cherry by marking with green. Mark with to cut pine of poor form or effected by weevil damage or to just open up areas more for aspen regen purposes.

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

Acceptable aspen, maple, cherry, pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

115	61027115-NF	24.4	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	75	51-80	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No

Site Condition:

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
 Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
119 61027119-NF	12.3	4119 - Mixed Northern Hardwoods	Sawtimber Poor	80	1-50	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal

Habitat Cut: No **Site Condition:**

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

122 61027122-NF	22.9	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No **Site Condition:**

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

123 61027123-NF	13.9	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No **Site Condition:**

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

126 61027126-NF	20.8	4199 - Other Mixed Upland Deciduous	Poetimber Poor	70	1-50	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No **Site Condition:**

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
131	61027131-NF	1.9	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal

Habitat Cut: No Site Condition:

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
 Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

140	61027140-NF	1.5	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No Site Condition:

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
 Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

141	61027141-Cut	6.5	4130 - Aspen	Poetimber Well	60	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No Site Condition:

Prescription Harvest all hardwood species to regenerate and expand aspen component. Leave all pine in stand. Mark retention trees of basswood, sugar maple,
Specs: cherry, elm.

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

Acceptable aspen, white pine, basswood, elm, cherry
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

144	61027144-NF	7.2	4116 - Mixed N. Hardwood - Aspen	Poetimber Medium	40	51-80	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No Site Condition: Shelterwood/Seed Source

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover.
 Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
146	61027146-Cut	2.9	42110 - Planted Red Pine	Poletimber Well	53	81-110	Harvest	Shelterwood with Retention	4110 - Sugar Maple Association	Uneven-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Mark scattered red pine to retain for shelter and diversity and cut the rest to allow thick sugar maple understory to take over site.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable sugar maple

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

150	61027150-Cut	4.9	4130 - Aspen	Poletimber Well	45	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut hardwoods in these two small areas to regenerate and expand the aspen. No retention due to small size of stands and lack of other

Specs: species. Leave any pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple,

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

151	61027151-NF	2.2	4110 - Sugar Maple Association	Poletimber Medium	35	1-50	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Proposal
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Habitat Cut: No

Site Condition:

Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or

Specs: conifers for wildlife food and cover. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

153	61027153-Cut	15.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	93	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest all hardwoods to regenerate and expand aspen component. Mark scattered leave trees of better form maple, cherry, basswood. Mark white

Specs: pine to cut that is of poor form or health...retain all others.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, basswood, cherry, white pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
63	NF_61027063-NonFor	4.5	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Selectively had fell some of the encroaching woody vegetation to maintain the upland brush community. Work to retain quality mature sugar maple and regen. Leave scattered mast bearing trees and shrubs

Next Step
Treatments:

Acceptable
Regen:

Other Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May want to fertilize plantings and protect with wire cages or tubex.

Proposed Start Date: 10/01/2017

84	NF_61027084-NonFor	6.3	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	90	1-50	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription In a cold air drainage. Selectively hand fell saplings to maintain opening.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 12/30/1899

94	NF_61027094-NonFor	7.1	3101 - Poverty Grass, Cladonia	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3101 - Poverty Grass, Cladonia		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription 1. Remove exotics as needed by herbiciding, or other methods. Seed in annual crop for soil building for several years then convert to appropriate perennial planting, native or pasture mix, 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). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

2. Some hardwoods encroachment at south end (A/SM/BC/IW). Work to retain quality mature sugar maple and regen. Leave scattered mast bearing trees and shrubs

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 599.1**

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 27

Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions										
		With Condition			2I	4A	5B	5C	2F	2G	2H	3D	5E		
694	608	47		39	Aspen			26	20	28				12	
16	16	0		0	Bare/Sparsely Vegetated										
44	0	0		44	Cedar						44				
116	116	0		0	Herbaceous Openland										
17	0	17		0	Jack Pine	17									
200	200	0		0	Low-Density Trees										
3	0	0		3	Lowland Aspen/Balsam Poplar						3				
45	0	0		45	Lowland Conifers						45				
73	1	0		71	Lowland Deciduous						71	1			
4	0	0		4	Lowland Mixed Forest						4				
15	11	0		4	Lowland Shrub						4				
3	3	0		0	Marsh					0					
27	21	0		6	Mixed Upland Deciduous										6
899	777	12		110	Northern Hardwood			7	5	77	1	17			15
269	241	29		0	Red Pine	25	3								
347	347	0		0	Upland Mixed Forest										
8	8	0		0	Upland Shrub										
10	5	0		5	Urban									5	
19	19	0		0	Water										
239	239	0		0	White Pine										
3,050	2,613	104		333	Total Forested Acres	42	3	34	25	105	172	18	16	21	
	86%	3%		11%	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	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

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 27

Year of Entry: 2018

2	Unavailable	3D: Recreational / Scenic values	12	Unspecified	Unspecified	Unspecified	Unspecified
<p>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.</p>							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p>Comments: Area includes Betsie River floodplain with many natural springs and seeps. Also, includes recreational trails that access the river from the public access parking lot for fisherman and hikers. Has scenic values as well.</p>							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Nominate for disposal.</p>							
5	Available	2I: Survey needed	17	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
6	Available	2I: Survey needed	25	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
7	Unavailable	2F: Too steep	28	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Very steep hillside...inoperable</p>							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 27

Year of Entry: 2018

8	Available	4A: No Markets Available for these Forest Products	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.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
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	2G: Too wet (sensitive soils, does not include access issues)	25	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 27

Year of Entry: 2018

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	7	3I: Historical / archeological (add locked comments)	Unspecified	Unspecified	Unspecified
Comments: Experimental plantation. Tried planting a few different species not commonly planted in the past.							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
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.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 27

Year of Entry: 2018

20	Unavailable	2F: Too steep	32	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Majority of this area is on very steep hillside going down toward Betsie River. Then stand flattens out down by river. So this area is either too steep or inaccessible due to steep terrain or Betsie river.							
21	Unavailable	2F: Too steep	13	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							
24	Unavailable	2F: Too steep	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3D: Recreational / Scenic values	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
27	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is parking lot for Homestead Dam. Fisherman's access to Betsie River.							
28	Available	5B: Maintain for regeneration purposes	7	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Manage stand for sugar maple saps in understory. Allow aspen to naturally "fall-out" of stand and sugar maple will slowly, over time take over canopy							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Craig Allen : Examiner

Compartment: 27
 Year of Entry: 2018

29	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5B: Maintain for regeneration purposes	14	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Aspen is holding good- can go another rotation...treating stand adjacent to east so delay till next time for age class diversity.							



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
	Potential Old Growth		SCA Removal	4
Comments This area no longer meets the criteria to be classified as a Special Conservation Area.				
	Potential Old Growth		SCA Removal	60
Comments This area no longer meets the criteria to be classified as a Special Conservation Area.				
	Potential Old Growth		SCA Removal	35
Comments This area no longer meets the criteria to be classified as a Special Conservation Area.				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4	4110 - Sugar Maple Association	Sawtimber Well	24.4	105	141-170	
5	6120 - Lowland Cedar	Sawtimber Well	44.4	100	51-80	
7	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	27.2	105	51-80	
9	4110 - Sugar Maple Association	Sawtimber Well	13.3	100	111-140	
10	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	4.5	105	Unspecified	Aspen starting to fall apart. Sugar maple heavy in the understory where aspen is located. 1/2 low 1/2 high ground. This small stand is sandwiched between the Betsie River and the parking lot at the Homestead Dam for fisherman access. The stand has many foot trails to access river.
12	6113 - Lowland Maple	Sawtimber Well	5.8	95	51-80	Low quality sugar maple. High ground near road, then drops down - mostly lowland. Should consider disposal (sale) of property.
15	42110 - Planted Red Pine	Poletimber Well	16.6	53	141-170	Thinned (1st time) every 3rd row in June 2011 BA's vary=130-170
16	4111 - S.Maple, Hard Mast Association	Sawtimber Well	21.7	95	81-110	
17	4110 - Sugar Maple Association	Sawtimber Well	4.6	100	81-110	
18	42110 - Planted Red Pine	Poletimber Well	3.4	53	171-200	
19	4130 - Aspen	Sapling Well	23.8	11	Unspecified	Cut in Aug. 2005. Trees that were left uncut (retention) include red maple, hemlock, beech...including some small islands of these trees.
21	4139 - Aspen, Mixed Deciduous	Sawtimber Well	11.7	75	51-80	Also has yellow birch, and some old apple trees along NW side.
22	4110 - Sugar Maple Association	Sawtimber Well	22.3	75	81-110	Many multi-stem trees regen= 1'-2' tall sm,ash,iron
23	4130 - Aspen	Sapling Well	21.4	11	Unspecified	Was clear cut (with reserves) in 2005. Trees left (reserves) were scattered white pine, hemlock, beech, sugar maple.
24	4110 - Sugar Maple Association	Sawtimber Well	28.2	85	81-110	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	42110 - Planted Red Pine	Sawtimber Well	19.5	53	111-140	first thinning done in June of 2011 Lots of hardwoods in understory (saps).
26	4319 - Mixed Upland Forest	Sawtimber Well	138.9	53	81-110	Pine was planted (1963) in natural holes and openings within the stand. some weevil damaged. Regen= mixed, but mostly sm, iron Some elms of various sizes scattered around. High variability from one spot to the next of species type, volumes, and quality. Lots of multi-stems. (Ba's = avg. 110-120)
29	4130 - Aspen	Sapling Well	23.8	5	Unspecified	Harvested summer of 2011. Original stand had mostly plantation red pine planted weaving in and around hardwoods. Left retention islands of red pine and individual maples.
30	4139 - Aspen, Mixed Deciduous	Sapling Well	16.2	5	Unspecified	Harvested summer 2011.
32	4112 - Maple, Beech, Cherry Association	Sawtimber Well	69.7	100	81-110	Lots of raspberry, a few elm trees, lots of beech regen. Thinned fall of 2001, but only 43 acres in sale due to steep slopes/terrain and river.
33	4111 - S.Maple, Hard Mast Association	Sawtimber Well	64.0	90	81-110	
34	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	36.7	53	111-140	
35	4139 - Aspen, Mixed Deciduous	Sapling Well	11.0	5	Unspecified	Also contains a few beech trees (save). Was harvested july of 2011 Wind blow-downs in storm July 2006.
36	4130 - Aspen	Sawtimber Well	28.4	60		Harvest east half for aspen regeneration. Leave west half to allow understory sugar maple saplings to take over stand as struggling aspen overstory slowly drops out of the stand.
37	4110 - Sugar Maple Association	Sawtimber Well	42.2	90	81-110	occasional ash, beech, elm
38	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	4.6	80	51-80	
39	4110 - Sugar Maple Association	Sawtimber Well	28.0	85	111-140	Lots of ironwood of various hts. regen= 1-2' tall sugar maple, iron, bass Also contains a few hemlock.
41	6112 - Lowland Aspen	Poletimber Medium	3.0	60	Unspecified	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.
42	42110 - Planted Red Pine	Sawtimber Well	17.4	53	111-140	Was row thinned in June 2011 Heavy understory of maple and ash.

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Traverse City Mgt. Unit

Report 7 – Forested Stands

Compartment: 27
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	45.2	100	81-110	Open/park-like Fragile, dark, wet soils. Several springs/drainages that go into Betsie River.
45	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	24.7	53	81-110	
46	4139 - Aspen, Mixed Deciduous	Sapling Well	43.6	4	Unspecified	Was harvested in June of 2011. Some steep hillsides. Contains some scattered mature retention trees and some retention islands as well.
47	4110 - Sugar Maple Association	Poletimber Medium	4.8	85	81-110	
49	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	13.7	80	Unspecified	Almost a "non- forested" classification.
50	4130 - Aspen	Poletimber Well	14.2	60	Unspecified	
51	4110 - Sugar Maple Association	Sapling Poor	2.6	35	1-50	Also has scattered aspen, black cherry
53	4110 - Sugar Maple Association	Sawtimber Well	54.0	100	81-110	Not much ground vegetation or saps. Also contains some beech and ash too.
55	42110 - Planted Red Pine	Poletimber Well	12.4	53	171-200	Was row-thinned in 2005.
56	42110 - Planted Red Pine	Sawtimber Well	25.2	61	171-200	
57	42120 - Planted Jack Pine	Poletimber Well	16.8	61	51-80	Heavy blow-down and snap-off damage from wind and ice as well as many jack pine just dying out. Stand will be over taken by (mostly sugar maple) understory along with mix of various other species.
58	4110 - Sugar Maple Association	Sawtimber Well	8.3	88	81-110	
62	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	9.7	55	111-140	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. If treated = would have to be selection marked. seedlings= sm, ash
64	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	9.9	85	1-50	
69	4133 - Aspen, Mixed Pine	Poletimber Well	18.4	50	Unspecified	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	64.9	53	81-110	west side 50/50 mix of hwd to pines. Westside lots of sm, aspen, ironwood, ash. Many blowdowns from storm in July 2006. Many old burn scar wp stumps. Heavy weevil damage.
72	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	26.1	97	Unspecified	Betsie river flood plain. Moist soils. Lots of various types of ground level vegetation.
73	4319 - Mixed Upland Forest	Sapling Medium	39.9	15	1-50	Harvested in 2001. Slowly filling in with mixed natural regeneration.
74	4319 - Mixed Upland Forest	Sawtimber Poor	8.3	75	1-50	semi-open area...many scattered old apple trees filling in with various species.
75	4110 - Sugar Maple Association	Poletimber Poor	5.3	75	1-50	
76	42110 - Planted Red Pine	Poletimber Well	25.3	29	111-140	
77	4130 - Aspen	Poletimber Well	56.2	46		
81	4110 - Sugar Maple Association	Sawtimber Well	24.6	80	51-80	Contains many areas of good advanced sugar maple regen of various size.
83	42110 - Planted Red Pine	Poletimber Well	19.9	29	111-140	
84	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	6.1	90	1-50	
85	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	63.8	53	81-110	
87	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	39.5	53	111-140	
88	4110 - Sugar Maple Association	Poletimber Medium	10.9	78	51-80	
90	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	17.7	80	51-80	Old wire fence along west side of stand appears to be left over from adjacent old county dump.
91	4119 - Mixed Northern Hardwoods	Sawtimber Well	123.0	75	81-110	Lower BAs in openings. Aspen is holding. Lots of natural openings. Average to low quality hardwoods; lots of double stems. Variable BA and quality. Aspen is scattered.
92	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	25.9	57	81-110	
93	4133 - Aspen, Mixed Pine	Poletimber Medium	20.0	59	Unspecified	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
95	42110 - Planted Red Pine	Poletimber Well	23.4	53	141-170	Third row thinned in fall of 2009 TSI work to girdle and cut hardwoods was done many years ago
97	42110 - Planted Red Pine	Sawtimber Well	26.3	53	141-170	Has been row-thinned.
98	4110 - Sugar Maple Association	Poletimber Medium	11.6	78	51-80	
99	42110 - Planted Red Pine	Poletimber Well	9.9	53	141-170	Both units row-thinned in 2005 North unit has all the maple sapling in understory.
101	42110 - Planted Red Pine	Poletimber Well	1.6	56	111-140	Very small stand along seasonal county road. Possibly was planted as a visual barrier between road and old county dump. Too small to consider thinning. Only 6 rows at the widest spot.
102	4130 - Aspen	Poletimber Well	15.1	46	Unspecified	Ash is dead or in process due to ash borer.
104	4311 - Pine, Aspen Mix	Sawtimber Well	9.1	60	81-110	Good white pine quality and Good aspen
105	4319 - Mixed Upland Forest	Poletimber Well	84.3	53	81-110	Scattered elm.
106	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.8	93	81-110	
108	4133 - Aspen, Mixed Pine	Sawtimber Well	17.4	65	Unspecified	Some signs of aspen decline. Need regeneration harvest.
110	4133 - Aspen, Mixed Pine	Poletimber Well	13.4	43		Manage this stand with adjacent aspen stand (#24) in compartment 26.
111	4139 - Aspen, Mixed Deciduous	Sapling Well	80.9	4	1-50	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.
112	4139 - Aspen, Mixed Deciduous	Sapling Well	140.6	4	Unspecified	Harvest completed in December of 2011.
113	42110 - Planted Red Pine	Sapling Poor	22.7	5	Immature	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
114	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	36.3	65	81-110	A natural pine stand. Manage for WP and mixed hardwoods.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
115	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	24.4	75	51-80	
116	4130 - Aspen	Sapling Well	16.9	29	Unspecified	
117	4319 - Mixed Upland Forest	Sawtimber Well	66.2	60	81-110	Scattered very large, old white pine with fire scars. Also, contains some scattered ash, basswood, beech.
118	4130 - Aspen	Sapling Poor	7.1	15	Unspecified	
119	4119 - Mixed Northern Hardwoods	Sawtimber Poor	12.3	80	1-50	Low quality timber. Very mixed species. Grass openings. SGG 11/27/06 - Was typed as grassy opening during last inventory. Selectively hand fell some woody encroachment.
120	4130 - Aspen	Sapling Well	4.3	25	Unspecified	
121	42110 - Planted Red Pine	Poletimber Well	16.6	29	111-140	
124	4130 - Aspen	Sapling Well	28.2	29	Unspecified	
125	4139 - Aspen, Mixed Deciduous	Sapling Well	15.1	29	Unspecified	Most all of the white pine was kept when this was harvested in 1991. WP in various size classes scattered throughout.
126	4199 - Other Mixed Upland Deciduous	Poletimber Poor	20.8	70	1-50	Grass in openings and ferns, with witchhazel and honeysuckle.
127	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.5	81	111-140	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.
129	4112 - Maple, Beech, Cherry Association	Sawtimber Well	56.8	90	81-110	Variable stand. Ash, sugar maple seedlings. Some of the very large, old fire scarred white pine.
130	4130 - Aspen	Sapling Well	6.6	27	Unspecified	
132	42110 - Planted Red Pine	Poletimber Well	6.7	29	111-140	
133	4130 - Aspen	Sapling Well	8.7	27	Unspecified	
135	4139 - Aspen, Mixed Deciduous	Sawtimber Well	27.6	70	Unspecified	Too steep to harvest
136	4130 - Aspen	Sapling Well	7.5	4	Unspecified	Stand was harvested in July of 2011.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
137	4110 - Sugar Maple Association	Sawtimber Medium	6.0	85	1-50	This stand is long term retention for adjacent stand 112 that was harvested.
138	4110 - Sugar Maple Association	Poletimber Medium	4.5	35	1-50	
139	4130 - Aspen	Sapling Well	4.5	15	Unspecified	
141	4130 - Aspen	Poletimber Well	6.5	60	81-110	Also, contains some scattered basswood, elm, sugar maple, cherry
142	4119 - Mixed Northern Hardwoods	Sawtimber Well	13.2	85	81-110	Very steep hills --too steep for logging there.
143	4110 - Sugar Maple Association	Poletimber Well	2.1	70	51-80	
144	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	7.2	40	51-80	
145	4110 - Sugar Maple Association	Sapling Well	1.2	35	1-50	Also contains scattered mature red maple multi-stem and cherry.
146	42110 - Planted Red Pine	Poletimber Well	2.9	53	81-110	sugar maple understory height is variable 2 to 30 feet tall...mostly advanced Was row-thinned in 2005.
147	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.4	95	81-110	This stand is a steep slope that was left for retention in the surrounding harvested stand.
148	4119 - Mixed Northern Hardwoods	Sawtimber Medium	2.1	85	51-80	
149	42110 - Planted Red Pine	Poletimber Well	19.4	53	111-140	Third row thinned in fall of 2009 TSI work to girdle and cut hardwoods was done many years ago
150	4130 - Aspen	Poletimber Well	4.9	45	Unspecified	
151	4110 - Sugar Maple Association	Poletimber Medium	2.2	35	1-50	
152	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.9	93	81-110	
153	4119 - Mixed Northern Hardwoods	Sawtimber Well	56.2	93	51-80	



Stand	Cover Type	Acres	Managed Site	General Comments:
1	110 - Low Intensity Urban	4.9	No	parking lot area (and open area) for public access to Betsie River in Benzonia. Administered by the Parks and Recreation Division.
2	3301 - Low Density Deciduous Trees	4.8	No	
3	3301 - Low Density Deciduous Trees	2.8	No	
6	3105 - Mixed Upland Herbaceous	2.9	No	This opening is heavily used as an informal parking area for fishermen to access the Betsie River.
8	500 - Water	8.1	No	Betsie River including Homestead Dam.
11	110 - Low Intensity Urban	4.7	Yes	Parking area for Homestead Dam public access site on Betsie River. Maintained by Parks and Recreation Div.
13	6220 - Alder/willow	1.6	No	Propose for Disposal --ok'd at Compartment Review in Dec.2006.
14	310 - Herbaceous Openland	8.4	No	narrow corridors in and around a red pine plantation. We be needed to use during harvest operations for all thinnings.
20	3105 - Mixed Upland Herbaceous	3.2	No	Part of an old farm field that is adjacent to private property and county road.
27	3105 - Mixed Upland Herbaceous	7.3	No	Narrow opening with seasonal county road running through length of it. Also an access drive to an adjacent private property.
28	3303 - Mixed Low Density Trees	5.5	No	
31	6230 - Cattail	2.7	No	Appears to be part of an old oxbow of the Betsie River.
40	6229 - Mixed lowland shrub	8.8	No	flood plain adjacent to Betsie River.
43	3205 - Mixed Upland Shrub	8.3	No	
48	330 - Low-Density Trees	42.9		Old white pine plantation that had majority of heavily weevil damaged trees. The stand was harvested leaving scattered leave trees of white pine and sugar maple to allow stand to naturally regenerate back to a mix of hardwoods (aspen, maple, cherry) and mix pine. Harvested on December of 2015.
52	3105 - Mixed Upland Herbaceous	7.9	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
54	500 - Water	10.4	No	Betsie River.
59	3303 - Mixed Low Density Trees	8.1	No	
60	3105 - Mixed Upland Herbaceous	3.2	No	
61	3105 - Mixed Upland Herbaceous	1.0	No	
63	3105 - Mixed Upland Herbaceous	4.5	No	
65	3105 - Mixed Upland Herbaceous	1.1	No	small opening on a bend of the Betsie River...frequently used as remote camping site.
66	3105 - Mixed Upland Herbaceous	2.0	No	
67	790 - Other Bare/Sparsely Vegetate	15.7		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.
68	3105 - Mixed Upland Herbaceous	1.5	No	small opening on a bend of the Betsie River...occasional used for remote camping.
71	3103 - Rubus-Fern	4.1	No	Griffith notes from 2006: Deer tracks, autumn olive, honeysuckle, golden rod, strawberry, rice grass, witch hazel. Small stand of hemlock at north edge of opening. Looks like decent place for woodcock. Very minor woody encroachment. Could possibly do habitat cut in part of adjacent A6 (stand #77).
78	500 - Water	0.9	No	part of an old oxbow that was once the Betsie River
79	330 - Low-Density Trees	28.4		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)
82	3301 - Low Density Deciduous Trees	5.4	No	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".
86	3303 - Mixed Low Density Trees	14.6	No	
89	3103 - Rubus-Fern	18.9	No	Wildlife Div. 2006 comments: deer tracks, honeysuckle, juneberry, juniper, mullin, golden rod, grass sp., occ. QA, some rubus, old stumps, lyco, RP seedlings, old QA clone in decline, sedge under bracken, BC saps. Unlisted species = ironwood.



Stand	Cover Type	Acres	Managed Site	General Comments:
94	3101 - Poverty Grass, Cladonia	7.1	No	Opening survey was done on this opening by Wildlife Div. in 2006
96	3105 - Mixed Upland Herbaceous	32.6	No	This is the old Benzie County Landfill.
100	3303 - Mixed Low Density Trees	47.3	No	
103	3105 - Mixed Upland Herbaceous	1.7	No	
107	3101 - Poverty Grass, Cladonia	7.2	No	Old Homestead site within
109	3303 - Mixed Low Density Trees	1.6	No	
122	3301 - Low Density Deciduous Trees	22.9	No	2006 Wildlife Div. comments: Golden rod, mullin, moss, cladonia, deer tracks, sheep sorel, grass spp., occasional honeysuckle, strawberry. Scattered rubus, junberry, juniper. Small pockets of declining quaking aspen. Overall not in bad shape. Some areas are heavy with SKW. Could treat these "degraded" areas.
123	3301 - Low Density Deciduous Trees	13.9	No	WLD 2006: Some SKW concentrated near road. Golden rod, mullin, rice grass, horsemint, junberry, honeysuckle, hawthorn, some seedling/sapling junberry.
131	3102 - Grass	1.9	No	
134	6229 - Mixed lowland shrub	5.1	No	A lowland island in Betsie River near public access.
140	3301 - Low Density Deciduous Trees	1.5	No	2006 Wildlife Div. comments: Golden rod, mullin, moss, cladonia, deer tracks, sheep sorel, grass spp., occasional honeysuckle, strawberry. Scattered rubus, junberry, juniper. Small pockets of declining quaking aspen. Overall not in bad shape. Some areas are heavy with SKW. Could treat these "degraded" areas.