



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61107

Entry Year 2023

Acreage: 2,623

County Kalkaska

Management Area: Grayling Outwash

Revision Date: 2021-06-08

Stand Examiner: Steve Crigier

Legal Description:

T28N R5W: Sec 25-27, 35 & 36.

Identified Planning Goals:

To maintain forest health, productivity, sustainability, species diversification and structural diversity throughout the compartment while providing for multiple use and visual management.

Soil and topography:

Soils consist of well drained loamy sands such as Kalkaska and Blue Lake, and well drained Rubicon and Kalkaska sands. Terrain is flat to gently rolling.

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

The compartment is a solid block of state ownership with the exception of Section 27 where we have some private land interface. The majority of the area is forestland with scattered seasonal dwellings. An exception to this is near Bass Lake on the north edge of the compartment where a concentration of cabins and residences are along the waterfront.

Unique Natural Features:

Bald Eagle nesting in the area of the compartment. Eastern Massasauga, Hill's Pondweed and Secretive Locust are known to exist in adjacent compartments and they could be found here since their preferred habitats do exist.

Archeological, Historical, and Cultural Features:

No known or registered sites. Several old railroad grades from the late 1800's and early 1900's bisect the area. The CCC planted a mixture of pines that covered the entirety of Sections 25 and 36 in the early 1930's.

Special Management Designations or Considerations:

The Goose Creek corridor and the Upper Manistee are a part of the Natural Rivers Zoning. The Eastern Massasauga Managed Lands (EMR) is in the northeast part of the compartment.

Watershed and Fisheries Considerations:

Goose Creek, and an unnamed tributary to the Manistee River flow through Compartment 107. Both are Designated Trout Streams. Goose Creek has a naturally reproducing population of brook trout, while the unnamed tributary supports both brook and brown trout. Because the Manistee River is Designated as a Natural River, there is a 75' natural vegetation buffer for all tributaries. No cutting should take place within that buffers. Goose Creek has a long history of being dammed and degraded by beavers. As Goose Creek is an important cold water tributary to the Manistee River, we recommend not managing for young aspen along the stream. All BMPs should be followed in wet areas around either stream.

Wildlife Habitat Considerations:

Compartment 107 is comprised of two different glacial landforms. The first, which only occurs in a couple locations along the edges of the compartment, consists of irregular ice contact ridges of well drained sands. The second and predominant landform, is a relatively flat outwash channel with well drained sandy soils. The current dominant cover type within this compartment is various pine mixes, followed closely by aspen stands. Wildfires where a recognized natural process in communities growing on these sandy soils. Hence a mixture of cover types and age classes is an appropriate management objective. Not only does this replicate a landscaped shaped by periodic wildfires, but it also helps to maintain habitat diversity by providing many different ecological niches.

Aspen cuts should be designed to increase age class diversity to maintain aspen stands of different habitat characteristics within a given area. Retention of mast/bud producing trees/shrubs, creation of downed logs during harvest operations, and increasing age class diversity among aspen stands are excellent ways to increase wildlife use of regenerating stands. Species potentially utilizing these habitats include snowshoe hare, ruffed grouse, deer, woodcock, chestnut-sided warblers, and tiger salamanders. Hardwood treatments are typically designed to incorporate the preservation of within-stand tree species diversity, the retention of mature mast producing trees, and the protection of den, cavity, and downed

trees. Species benefiting from hardwood forests include northern goshawk, wild turkey, gray squirrels, and eastern box turtles. Where possible, hardwoods should be encouraged within pine 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.

Openings are an important part of early succession landscapes found on sandy outwash soils. Maintenance of opening includes selective hand felling of woody encroachment, planting of herbaceous ground cover, planting mast producing shrubs, prescribed burning, and more. Currently only about 5% of the cover types in this compartment are in upland non-forested and low-density treed communities. Communities with little or scattered tree canopy allow sunlight to reach the soil which can provide for a wide variety of herbaceous vegetation, shrubs, and forbs for wildlife food and cover. Non-forested communities in conjunction with adjacent forested communities provide edge habitat, that provides habitat for additional wildlife species. Opportunities to expand or even create openings should be encouraged. Turkey, deer, eastern bluebirds, meadow jumping mice, and smooth green snakes are just a sample of the many species that use these openings.

This compartment has the high likelihood of harboring eastern massasauga rattlesnake (EMR), a Federally Threatened and State Special Concern species. Timber operations and habitat manipulation should comply with EMR management guidelines. Land management practices such as timber harvesting, mowing, disking or prescribed burning should be conducted in such a manner so as to minimize the potential for adverse impacts to massasaugas (e.g., conducting management activities during the snakes' inactive season (November through early March) or on days when snakes are less likely to be active on the surface during the active season).

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have an economic use. The nearest gravel pit is just over one mile to the east. Gravel potential is considered good on the uplands. This area is located along the south edge of the Niagaran reef trend and south of the Antrim Shale gas play. All of the State land is currently leased for oil and gas development and could have potential for additional Guelph (Niagaran) reefs.

Vehicle Access:

There is good access through out the compartment. Cameron Bridge Road is the main access into the north part of the compartment. County Road 612 provide paved access into the south end of 107 and Deward Rd is along the east edge of the compartment.

Survey Needs:

None needed

Recreational Facilities and Opportunities:

A boat launch has been carved out at the South end of Bass Lake upon state forest land. There is no other boat launch site, public or private, on this lake and it appears that this one developed simply after years and years of historical use. The site is not maintained. The Blue Bear Snowmobile Trail and the Kalkaska ORV Trail pass through the compartment.

Fire Protection:

Fire protection in this area is provided by the MDNR Kalkaska Field Office with assistance being available from the Grayling DNR Field Office as well as local Volunteer Fire Departments. Road access is fair with a good water source nearby to be utilized for fire suppression.

Additional Compartment Information:

The following reports from the Inventory are attached:

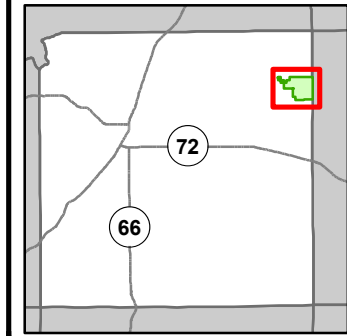
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

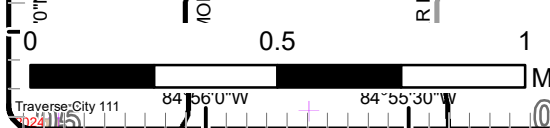
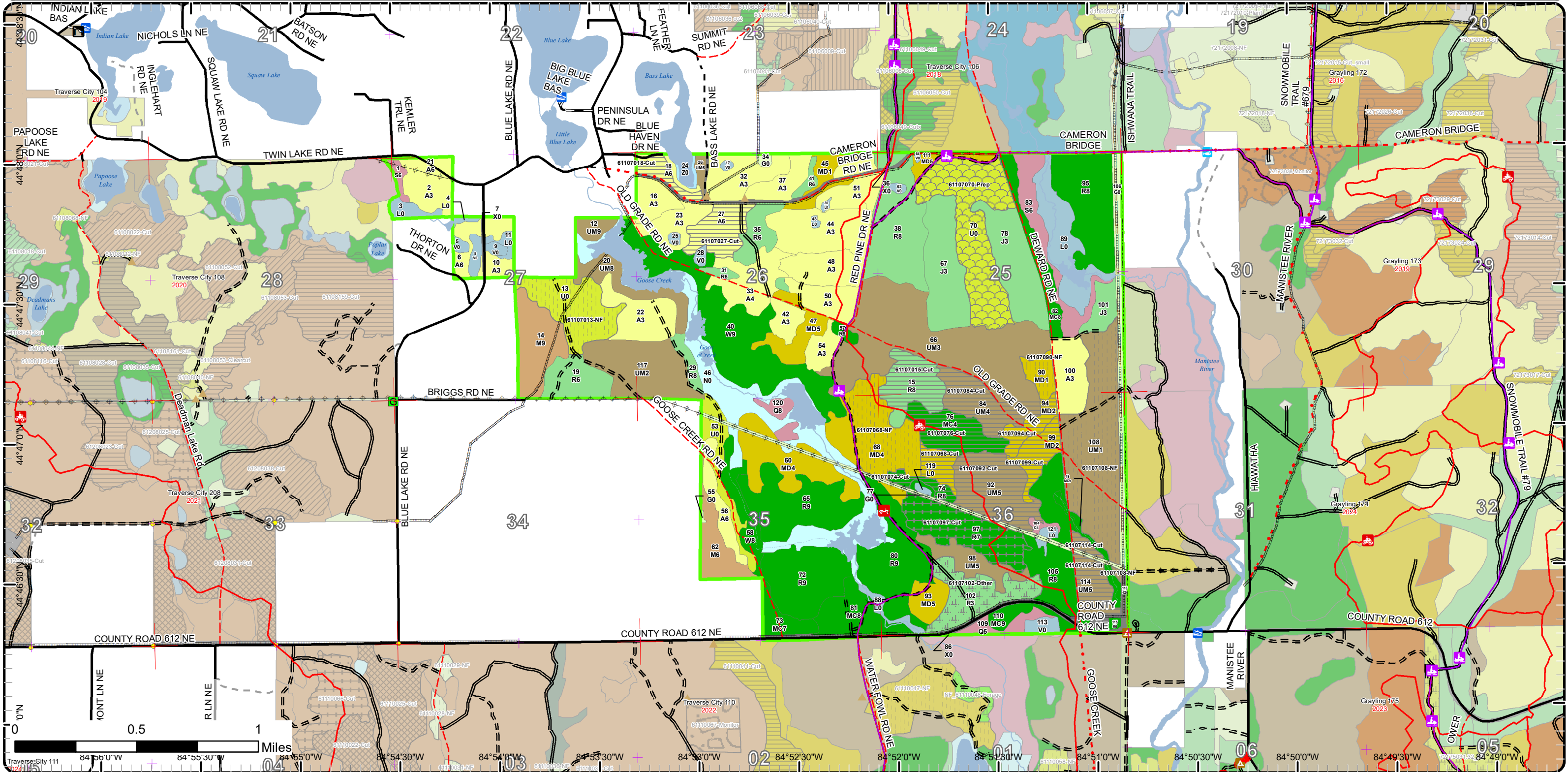
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 107
 T28N R05W 25-27, 35, 36
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Grayling Outwash
 YOE: 2023
 Acres: 2622.9 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 9/15/2021
 Map Phase: Post-Review

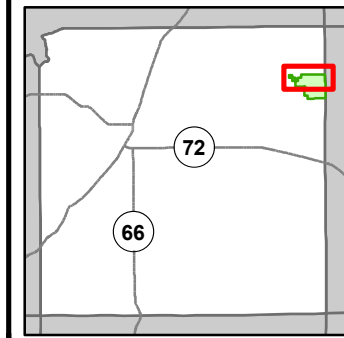


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- . . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV Trails
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- Gate
- Boating Access Site
- Bridges
- Campground
- Fishing Access Site
- Sign
- Intermittent Stream
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Opening Maintenance
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

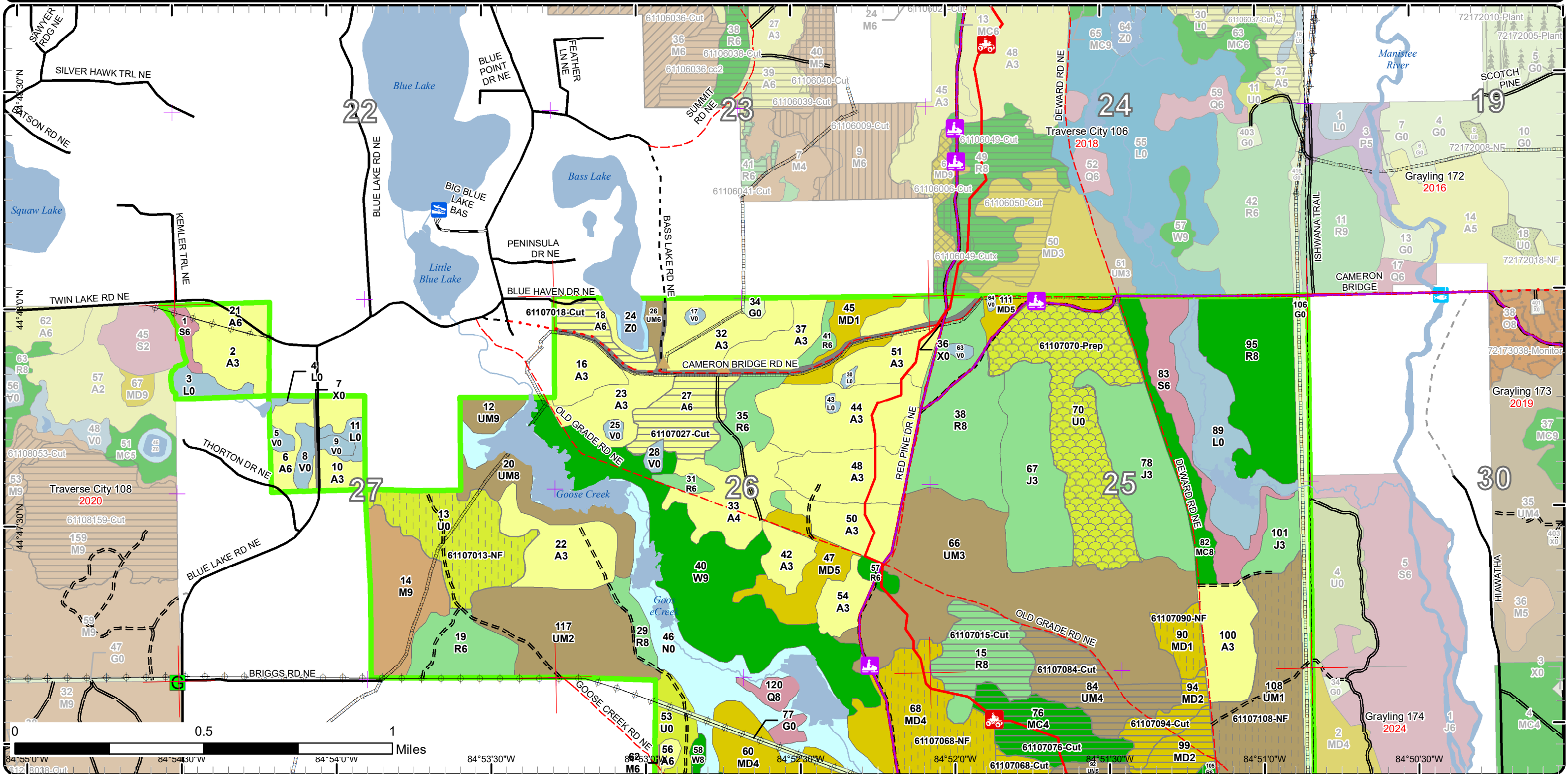


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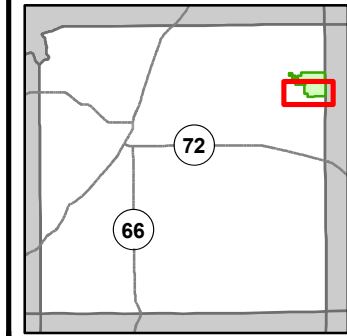


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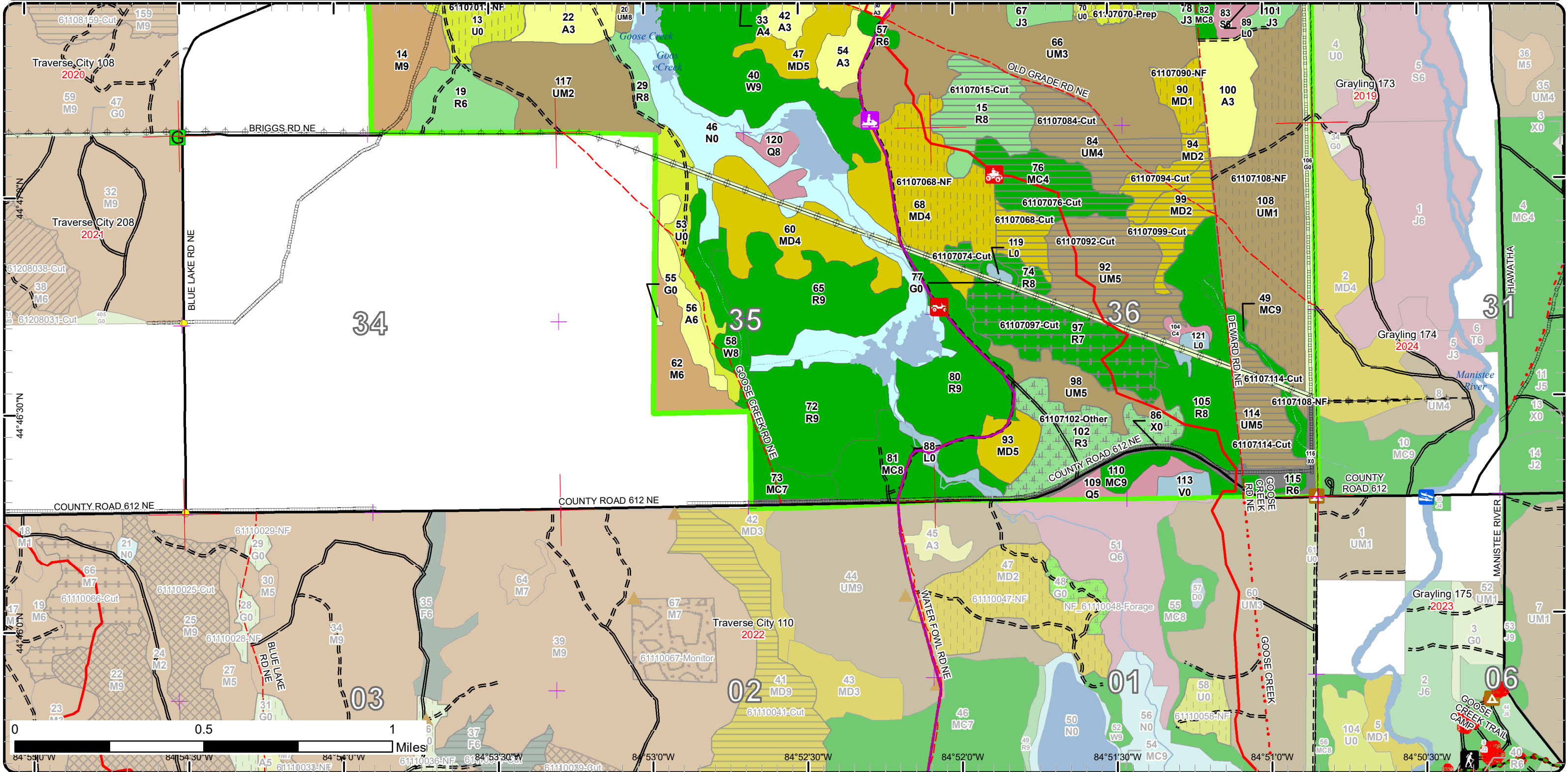


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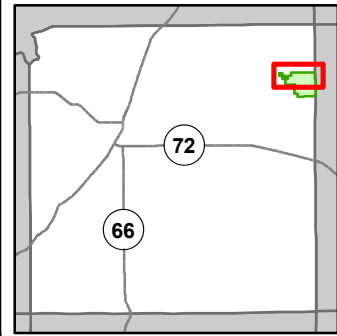


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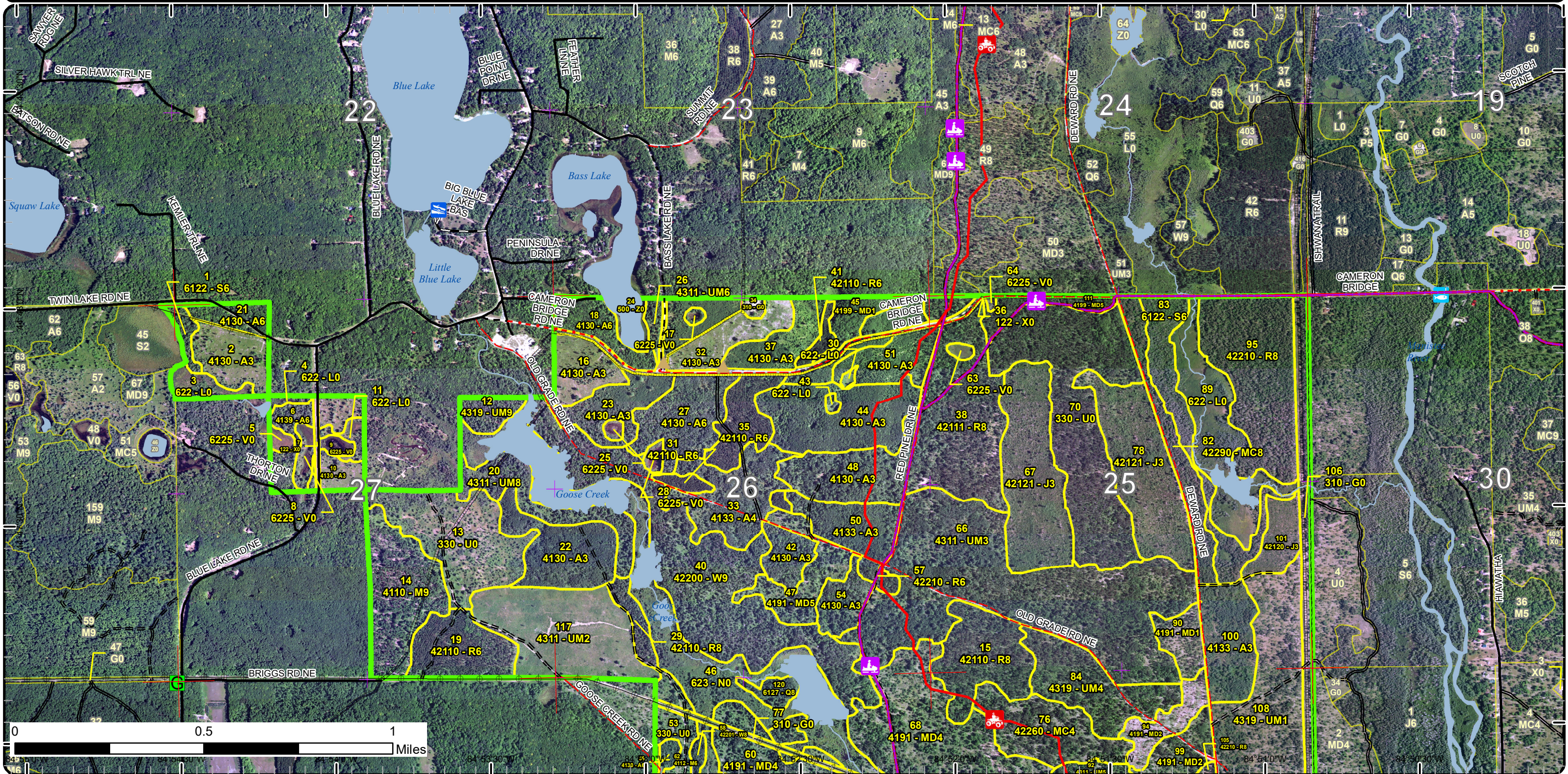


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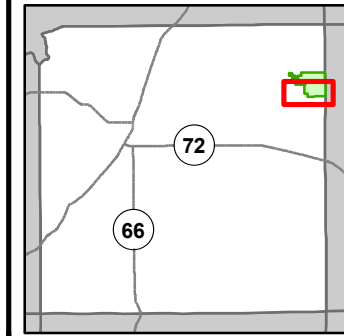


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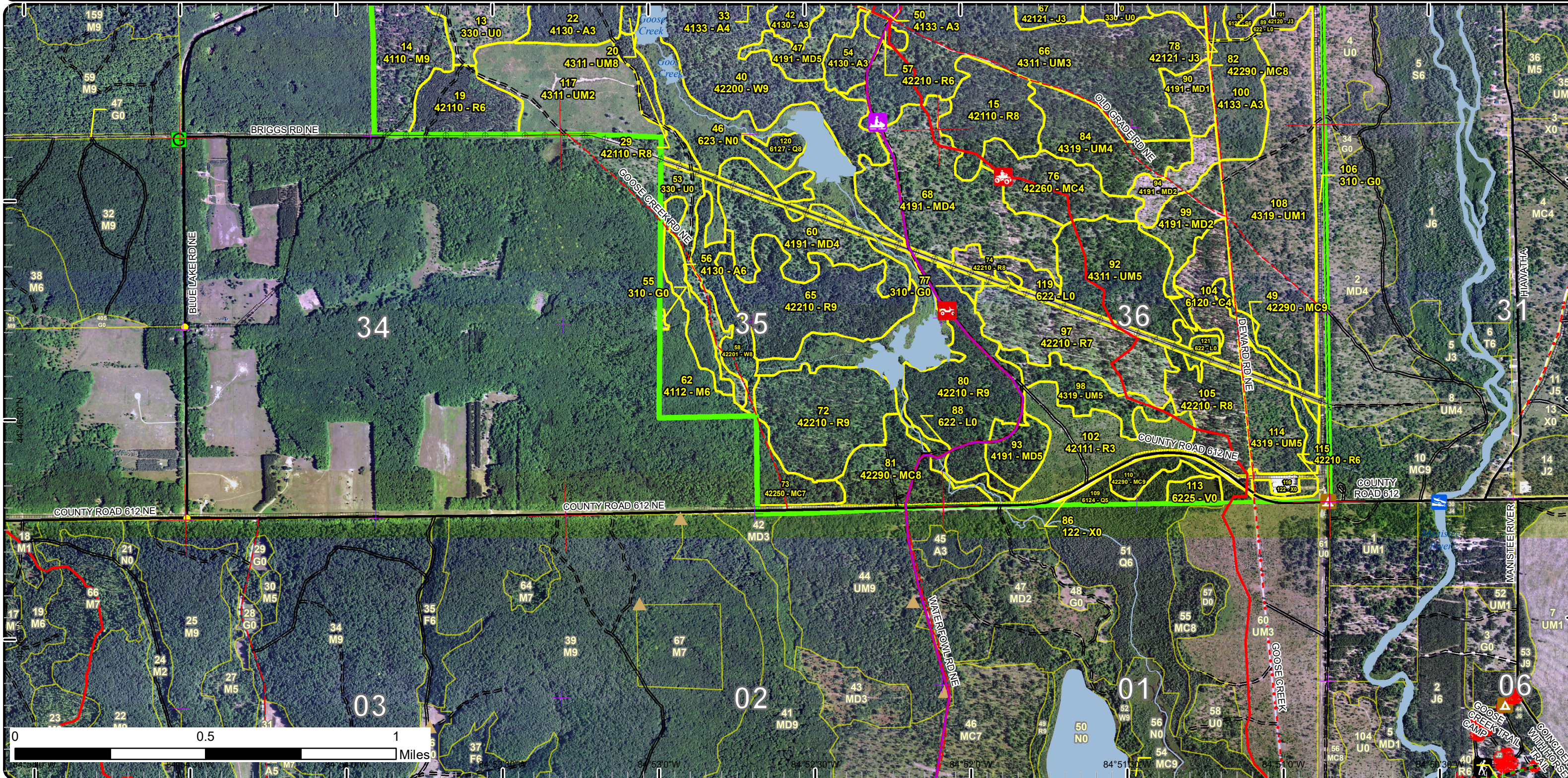


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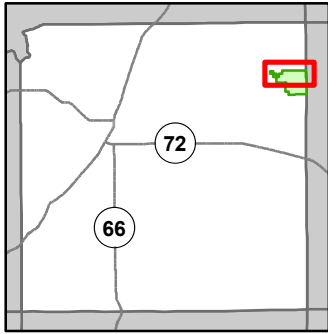


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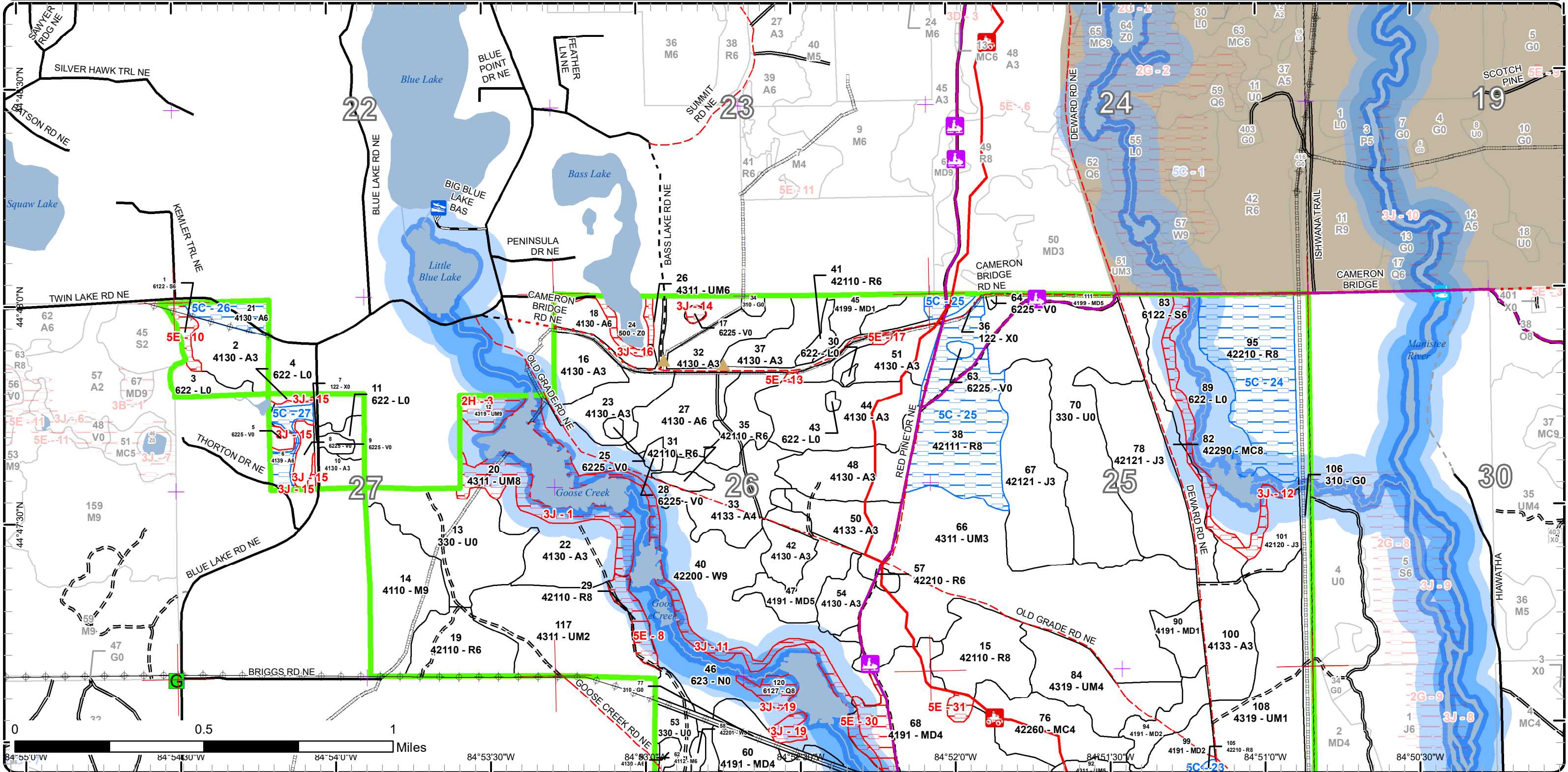


Special Conservation Areas

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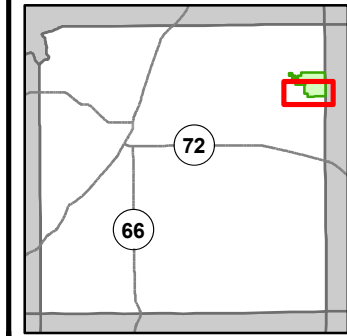


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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

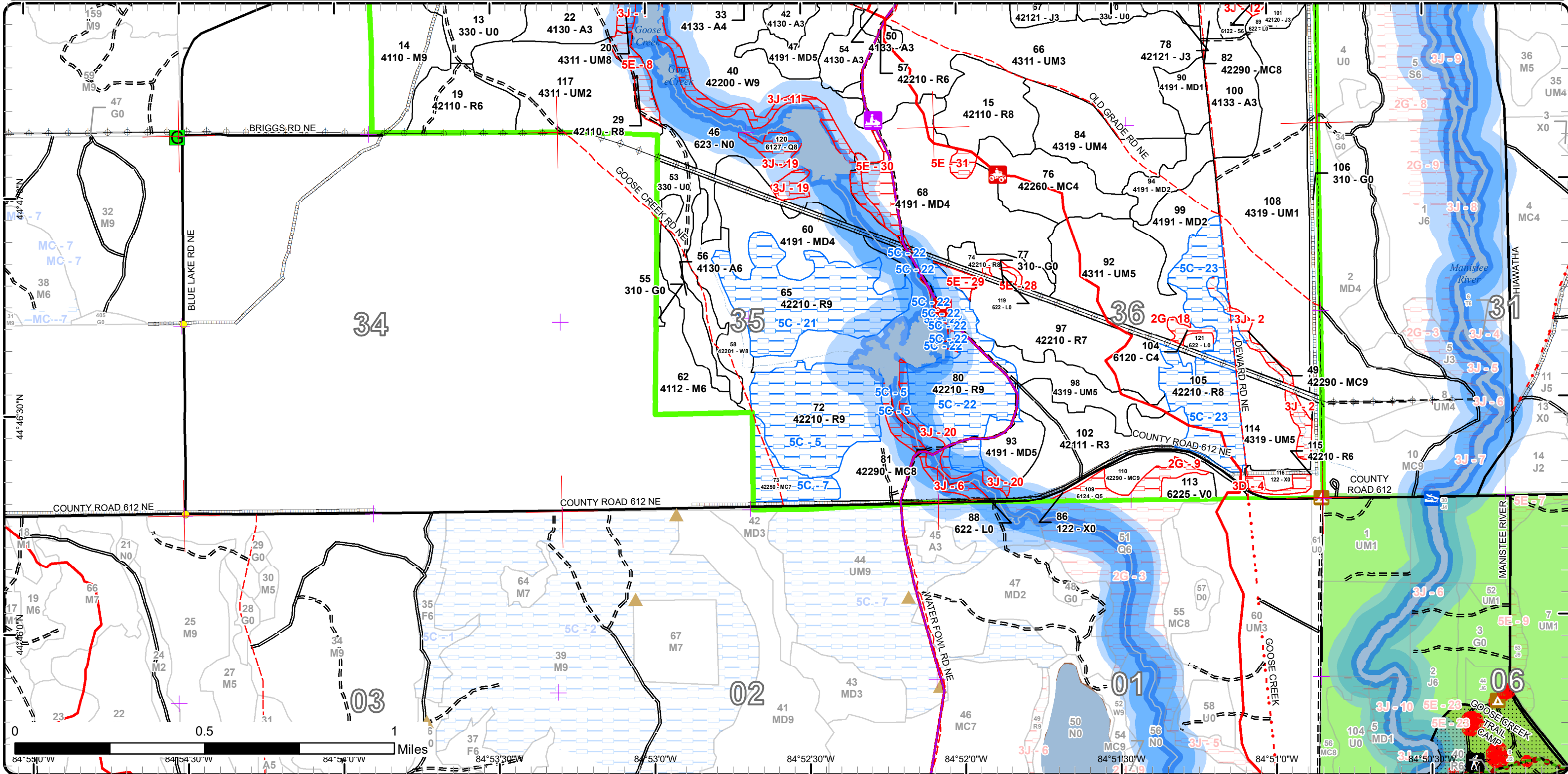


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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- State Forest Campground



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	88	72	51	133	41	36	0	0	0	0	0	0	0	0	0	0	0	419
Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Cedar	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	2
Herbaceous Openland	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Jack Pine	0	0	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
Low-Density Trees	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
Lowland Conifers	0	0	0	0	0	0	0	0	0	10	9	0	0	0	0	0	0	0	19
Lowland Shrub	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Lowland Spruce/Fir	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	35
Marsh	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134
Mixed Upland Deciduous	0	28	0	30	0	74	80	15	0	0	0	0	0	0	0	0	0	0	227
Natural Mixed Pines	0	0	0	0	0	0	64	23	0	21	15	0	0	0	0	0	0	0	121
Northern Hardwood	0	0	0	0	0	0	26	0	40	0	0	0	0	0	0	0	0	0	66
Red Pine	0	0	41	0	0	0	0	119	7	271	111	0	0	0	0	0	0	0	549
Upland Mixed Forest	0	56	0	0	147	0	108	0	60	0	0	0	0	0	0	0	0	105	476
Urban	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	0	20	0	102	0	0	0	0	0	0	0	0	122
Total	476	172	226	81	280	115	314	212	107	404	138	0	0	0	0	0	0	105	2624



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 107
Total Compartment Acres: 2,623

Commercial Harvest - 313
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	37	0	0	0	0	0	0	0	0	37
Mixed Upland Deciduous	45	0	0	0	0	0	0	0	0	45
Natural Mixed Pines	32	0	0	0	0	0	0	0	0	32
Red Pine	40	0	0	0	0	49	0	0	0	88
Upland Mixed Forest	111	0	0	0	0	0	0	0	0	111
Total	264	0	0	0	0	49	0	0	0	313

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	313	85	0	0	0	0	41	216	0	655
Next Step	0	227	312	0	152	312	492	0	0	1495
Total	313	312	312	0	152	312	492	41	216	2150



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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Approved Treatments:

13	61107013-NF	47.2	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><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 for wildlife food and cover. Work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Eventually burn site rotationally.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
15	61107015-Cut	31.5	42110 - Planted Red Pine	Sawtimber Medium	81	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut stand and follow guidelines to prep stand for planting red pine. Retention pockets south of the ORV trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Protect ORV trail that runs through the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
18	61107018-Cut	10.3	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut stand with retention around Bass Lake. and vernal pond in the NW. Treatment shape has already accounted for these buffers.</p> <p><u>Specs:</u> Try to leave some of the young white pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, oak, white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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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
27 61107027-Cut	26.7	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut stand but leave some retention along the vernal pond in the south. Also mark a few large white pine to leave.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, oak, white pine, red maple, cherry</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
68 61107068-Cut	12.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	59	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut stand, east of the snowmobile trail, and plant to red pine. Apply red pine guidelines to establishing the stand. Retention is to the west of the snow trail and a pocket south of the powerline.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Protect ORV trail that runs through the stand. Per discussion at pre-review, WLD would like to maintain most of Stand 68 in a semi-open barrens state. FRD will cut east end and plant with adjacent treatments. Retention left in remainder of stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
68 61107068-NF	53.0	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	59	1-50	NonForestMgt	Brush Cutting	3303 - Mixed Low Density Trees		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.</p> <p><u>Comment:</u> Protect ORV trail.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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70 61107070-Prep 84.7 330 - Low-Density Trees Nonstocked 0 Unspecified SitePrep Trenching 42110 - Planted Red Pine Even-Aged No

Prescription trench stand south of snowmobile trail. cut with a harvester out of piles and then tops were drug to shipper at landing so some of the area is a bit thicker. may want to let site set for a year before trenching, to be determined by TMS.

Specs:

Next Step Pesticide, Aerial - Site Prep; Planting, Initial Plant

Treatments:

Acceptable Plant to red pine. some competition is OK however want the bulk of the site (~80%) free to grow red pine. Chapter 7 done to change this to plant

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

74 61107074-Cut 8.0 42210 - Natural Red Pine Sawtimber Medium 60 51-80 Harvest Clearcut with Retention 4211 - Planted Red Pine Even-Aged No

Prescription Clear cut stand, provide retention around the vernal pond to the south. Follow red pine guidelines to establish a red pine stand post harvest.

Specs:

Next Step SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable red pine

Regen:

Other Following discussion at pre-review which reduced the extent of the planted red pine prescription, consider cutting all of stand 74 but only planting east end to align with other planting prescriptions.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

76 61107076-Cut 32.2 42260 - Natural Pine, Mixed Deciduous Poletimber Poor 51 1-50 Harvest Clearcut with Retention 4211 - Planted Red Pine Even-Aged No

Prescription Clear cut stand and follow guidelines that to prep stand for planting red pine.

Specs: Retention is accounted for in adjacent stands (68, 74 and 15).

Next Step SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable red pine

Regen:

Other Protect ORV trail that runs through the stand. Retention already excluded from treatment as sliver of stand between ORV trail and NF stand

Comment: 68 at northwest end.

Site Condition

Proposed Start Date: 10/1 /2022

84 61107084-Cut 35.7 4319 - Mixed Upland Forest Poletimber Poor 71 1-50 Harvest Clearcut 4211 - Planted Red Pine Even-Aged No

Prescription Clear cut stand and follow guideline to prep the stand for planting red pine.

Specs: Retention is accounted for in adjacent stands (68, 74 and 15).

Next Step SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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
90 61107090-NF	11.3	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	26	Immature	NonForestMgt	Brush Cutting	3303 - Mixed Low Density Trees		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
92 61107092-Cut	50.1	4311 - Pine, Aspen Mix	Poletimber Medium	51	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut stand and follow guidelines to prep site for planting red pine.</p> <p><u>Specs:</u> Retention is accounted for in adjacent stands (68, 74 and 15).</p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u> Protect ORV trail that runs through the stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
94 61107094-Cut	13.7	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	5	Immature	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut stand and follow guidelines to prep stand for planting red pine.</p> <p><u>Specs:</u> Retention is accounted for in adjacent stands (68, 74 and 15).</p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u> Retention could exclude northern tip of stand to go with Stand 90 (barrens treatment).</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
97 61107097-Cut	48.6	42210 - Natural Red Pine	Sawtimber Poor	61	1-50	Harvest	Overstory Removal	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove the overstory pine and oak. Leave some mature trees along the ORV trail and minimize the impact of the harvest on the trail Try to protect as much of the advanced regen as possible during the harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, oak, white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
99 61107099-Cut	19.0	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	27	Immature	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> clear cut stand and follow guidelines to prep site for planting red pine.</p> <p><u>Specs:</u> Retention is accounted for in adjacent stands (68, 74 and 15).</p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
102 61107102-Other	40.7	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	11	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> brush cutting to remove competition from the plantation.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
108 61107108-NF	104.8	4319 - Mixed Upland Forest	Sapling Poor	40	1-50	NonForestMgt	Brush Cutting	3303 - Mixed Low Density Trees		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
114 61107114-Cut	25.0	4319 - Mixed Upland Forest	Poletimber Medium	59	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> clear cut stand and follow guideline to prep the site for planting red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 654.7

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 107
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5C	2G	2H	3D	3J	5E
418	395	16	7	Aspen	16				7	0
22	21	0	1	Bog	0				1	
3	0	0	3	Cedar		3				
54	54	0	0	Herbaceous Openland						0
113	113	0	0	Jack Pine						
153	153	0	0	Low-Density Trees						0
19	0	0	19	Lowland Conifers		10			9	
69	69	0	0	Lowland Shrub	0				0	
35	16	0	20	Lowland Spruce/Fir					15	5
134	133	0	0	Marsh					0	0
227	212	0	16	Mixed Upland Deciduous	0				3	13
121	91	14	16	Natural Mixed Pines	14				16	
66	66	0	0	Northern Hardwood						
547	185	336	26	Red Pine	336			3	8	15
475	442	0	33	Upland Mixed Forest			8		25	0
36	36	0	0	Urban					0	
7	7	0	0	Water						
122	99	0	23	White Pine					23	0
2,623	2,092	366	165	Total Forested Acres	366	13	8	3	108	33
	80%	14%	6%	Relative Percent						

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand just thinned in 2017. Trees look very healthy still and will need slash to breakdown before we look to restart.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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8	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from clearcut unit on Paint the Plow RP, 61-041-13-01.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 107
Year of Entry: 2023

15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 107
Year of Entry: 2023

21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand just thinned in 2017. Trees look very healthy still and will need slash to breakdown before we look to restart.							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand just thinned in 2017. Trees look very healthy still and will need slash to breakdown before we look to restart.							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand just thinned in 2017. Trees look very healthy still and will need slash to breakdown before we look to restart.							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand just thinned in 2017. Trees look very healthy still and will need slash to breakdown before we look to restart.							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Green up issue with stand 70 not being planted yet.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 107
Year of Entry: 2023

26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand just thinned in 2017. Trees look very healthy still and will need slash to breakdown before we look to restart.							
30	Unavailable	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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	Managed Site	General Comments																																							
1	6122 - Black Spruce	Poletimber Well	4.6	61	51-80	N/A	Stand provides nice thermal cover, on transition ground from A6 to the bog. Some of the spruce is only 4-5"																																							
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2	4130 - Aspen	Sapling Well	18.6	6	Immature	N/A	Stand has at least 1 small V0 in it. Stand was final harvested in spring of 2015. Blue Lake Aspen 61-033-13-01. Left the white pine oak and sugar maple. There is also a buffer around a vernal pond.																																							
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4	622 - Lowland Shrub	Nonstocked	1.9		Unspecified	No																																								
5	6225 - Bog	Nonstocked	2.2		Unspecified	No																																								
6	4139 - Aspen, Mixed Deciduous	Poletimber Well	10.4	49	51-80	N/A	Stand is a mix of aspen, birch, white pine and soft maple. Mostly quaking but there are a few clones of bigtooth. South half is quite sparse. More of an A5.																																							
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7	122 - Road/Parking Lot	Nonstocked	1.9		Unspecified	No	road and powerline																																							
8	6225 - Bog	Nonstocked	4.7		Unspecified	No																																								
9	6225 - Bog	Nonstocked	2.6		Unspecified	No																																								



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10	4130 - Aspen	Sapling Well	12.5	6	Immature	N/A	Stand was final harvested in summer of 2015 'Blue Lake Aspen' 61-033-13-01. Left the white pine, oak, sugar maple and marked some birch to leave- Aspen is filling in well in the South. North part has some lower ground and regen is less dense.																																					
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11	622 - Lowland Shrub	Nonstocked	4.1		Unspecified	No																																						
12	4319 - Mixed Upland Forest	Sawtimber Well	8.1	59	81-110	N/A	Nice stand of white pine logs with soft maple and aspen poletimber. Stand has old Railroad grade running through it. Access is limited with private to the north.																																					
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13	330 - Low-Density Trees	Nonstocked	47.2		Unspecified	No	Opening filling in with mostly cherry and white pine. A few clones of aspen. Old fire scarred pine stumps Scattered throughout. Would make a nice spot to plant red pine. Could make a uncut wildlife corridor.																																					
14	4110 - Sugar Maple Association	Sawtimber Well	39.9	78	51-80	N/A	Stand has a large hill running north and south through it. Mostly pulp wood but would benefit from some TSI. Some pockets of lower stocking (Central part of stand). Sour gas line runs through stand.Stand was harvested in the summer of 2015 'Pretty Good 4 Hwds'. Most of the beech was removed as well as all of the aspen which was along the east edge and should convert to a A3. Areas where there was a lot of beech will be more of an M8 but the majority of the stand is an M9.																																					
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15	42110 - Planted Red Pine	Sawtimber Medium	34.2	81	51-80	N/A	Stocking of the red pine varies but overall is moderately stocked with a red maple, jack pine and some scattered oak established in the understory.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
16	4130 - Aspen	Sapling Well	16.0	6	Immature	N/A	- Stand was final harvested in summer of 2015 'Blue lake Aspen' 61-033-13-01. Left the white pine, sugar maple and oak. - The southern part of the stand was mostly jack pine, I expect over more time it will reestablish itself. Aspen and red maple regen is filling in well.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		18	Sapling	1		Jack Pine	Trace	< 5 feet	Sapling
Red Oak		2	Log/Pole	10					
Bigtooth Aspen		75	Sapling	1	6				
White Pine		5	Pole/Log	8					
17	6225 - Bog	Nonstocked	1.2	0	Unspecified	No			
18	4130 - Aspen	Poletimber Well	14.2	49	81-110	N/A	Stand is along the southwest end of Bass Lake. Stand has unofficial access to lake. Nice quality aspen!		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole	8		White Pine	Low	Variable	Sapling
Red Oak		5	Log	12		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen		75	Pole	8	49				
White Pine		5	Pole	8					
19	42110 - Planted Red Pine	Poletimber Well	26.0	62	141-170	N/A	Hilly terrain. Plantation stocking is more variable on the east side. Thinned 1/2014 as Paint the Plow Red Pine, 61-041-13-01.starting to get some hardwood established in the understory. Some patches with a lot of defect. Some rolling terrain. BA- 110, 160, 180. Parts of stand are due for a Second thinning. ~ 6 stick trees		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Pole/Log	9	62	Beech	Medium	5 - 10 feet	Sapling
						Red Maple	Medium	5 - 10 feet	Sapling
20	4311 - Pine, Aspen Mix	Sawtimber Medium	23.8	79	51-80	N/A	Stand is a buffer along Goose Cr.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Pole	8		White Pine	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		20	Pole	8					
White Pine		55	Log	14	79				
21	4130 - Aspen	Poletimber Well	8.9	59	81-110	N/A	Nice stand of aspen. Starting to loose some of the aspen.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		70	Pole/Log	9	59	Red Maple	Medium	Variable	Sapling
Paper Birch		10	Pole	7		Beech	Medium	5 - 10 feet	Sapling
Red Maple		10	Pole/Log	9					
White Pine		10	Log/Pole	12					
22	4130 - Aspen	Sapling Well	31.0	32	Immature	N/A	Nice stand of aspen regen. Stand starting to convert to a A6		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		55	Sapling/Pole	4	32	White Pine	Trace	Variable	Sapling
Bigtooth Aspen		30	Sapling/Pole	4					
White Pine		5	Pole/Log	9					
Red Maple		10	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
23	4130 - Aspen	Sapling Well	30.7	14	Immature	N/A	- Regen is pretty dense. Scattered log sized white pine especially around the vernal ponds. Some scattered Log sized oak and white pine. Trees are about 20' tall. South end of the stand has more of a white pine and red maple component.																																														
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24	500 - Water	Nonstocked	7.2		Unspecified	No	Bass Lake																																														
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26	4311 - Pine, Aspen Mix	Poletimber Well	3.6	59	51-80	N/A	Stand is along Bass Lk.																																														
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27	4130 - Aspen	Poletimber Well	26.7	58	81-110	N/A	Nice stand of aspen. Prodominantly bigtooth but more of a quaking mix to the south and east. Heavier component of white pine in the southern part of the stand.																																														
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28	6225 - Bog	Nonstocked	2.2		Unspecified	No																																															
29	42110 - Planted Red Pine	Sawtimber Medium	7.4	62	81-110	N/A	Retention from Paint the Plow RP, 61-041-13-01. Nice quality pine serving as a BMP buffer for the Goose Cr Flooding.																																														
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30	622 - Lowland Shrub	Nonstocked	0.9	0	Unspecified	No																																															
31	42110 - Planted Red Pine	Poletimber Well	4.9	60	111-140	N/A	- Stand was row thinned in the summer of 2018, Goose Cr Fooding Mix 61-150-17-01. They cut 2 rows and left due to the rows being too narrow. Nice quality red pine.																																														
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32	4130 - Aspen	Sapling Well	17.6	6	Immature	N/A	Stand has pipeline on its north boundary. Stand was final harvested in the summer of 2015 'Blue Lake Aspen' 61-033-13-01. Left the white pine, sugar maple, oak. The north end of the stand has more of a hardwood component. - Regen is coming in thick, trees are about 10' tall																																												
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33	4133 - Aspen, Mixed Pine	Poletimber Poor	32.7	32	1-50	N/A	Some scattered red pine pole timber. a mix of pole timber and saplings. Stocking is patchy. Looks like 2 age classes of aspen. Quality of the aspen is mediocre to poor. Looks to be a good site to plant red pine.																																												
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34	310 - Herbaceous Openland	Nonstocked	1.9		Unspecified	No	old well pad, plugged in 1983.																																												
35	42110 - Planted Red Pine	Poletimber Well	17.6	60	111-140	N/A	Stand thinned in 2005. Getting some regen underneath. Tops have plenty of room to grow. - Nice quality pine. BA'S are still a little low and tops have room to expand.																																												
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36	122 - Road/Parking Lot	Nonstocked	11.3		Unspecified	No																																													
37	4130 - Aspen	Sapling Well	16.6	14	Immature	N/A	West end of the stand is regenerating well. East part of stand is up on a hill and has more of a soft maple component and is less dense.																																												
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38	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	65.0	83	1-50	N/A	stand has had the red maple, jack pine and aspen cut out several entries ago. Oak is showing signs of decline. Red pine is nearing maturity. Some pockets of aspen regeneration.																																												
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40	42200 - Natural White Pine	Sawtimber Well	102.0	83	81-110	N/A	Natural white pine stand with aspen and softmaple. White pine regen is present. A mix between a log and a pole stand. Stocking become more sparse to the south. Pockets of jack pine and aspen.																																																				
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41	42110 - Planted Red Pine	Poletimber Well	4.1	65	111-140	N/A	Stand is in a bit of a draw. It was row thinned in the summer of 2018. Goose Cr Flooding Mix 61-150-17-01. They cut 2 rows and left 4.																																																				
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42	4130 - Aspen	Sapling Well	11.2	3	Immature	N/A	- Stand was cut in the summer of 2018, 'Goose Cr Flooding Mix' 61-150-17-01. There are some scattered oak and pine left for seed. Also all young white pine was left. - Regen is 4-5' tall and is filling in fairly thick.																																																				
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43	622 - Lowland Shrub	Nonstocked	1.0		Unspecified	No																																																					
44	4130 - Aspen	Sapling Well	42.2	37	51-80	N/A	Nice stand of aspen. Looks to be mostly bigtooth but there are some pockets of quaking. Some scattered large oak and pine especially along the snowmobile trail. Stand is on some hilly terrain. almost a pole sized stand.																																																				
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45	4199 - Other Mixed Upland Deciduous	Sapling Poor	14.4	2	Immature	N/A	- Stand is bisected by Cameron Bridge Rd. Stand is mostly oak poletimber with some pockets of aspen and some softmaple mixed in. - Stand was cut in the summer of 2018 'Goose Cr Flooding Mix' 61-150-17-01. Red pine and white pine were left. Stand should come back to an oak, aspen and red maple mix.- Aspen and red maple is starting to fill but still very patchy. Oak sprouts are getting browsed heavily.																																																				
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46	623 - Emergent Wetland	Nonstocked	133.7		Unspecified	No	Portions of Goose creek that have been flooded out due to beaver activity																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
47	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	21.0	47	1-50	N/A	Poor quality aspen and red maple. White pine is filling in the southern part of the stand. Denser stocking in the northern portion of the stand																																																		
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48	4130 - Aspen	Sapling Well	29.5	26	Immature	N/A	- Stand had the aspen and soft maple cut out of it in 1995. Regen is coming in well. 2 aged stand. Orv Trail crosses the stand at the east end. - Removed the oak overstory in the fall of 2018 'Goose Cr Flooding Mix' 61-150-17-01. Some of the advanced aspen and red maple was damage but it should fill back in. - Areas were the oak Was removed is regenerating to a mix of Aspen , red maple and oak.																																																		
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49	42290 - Natural Mixed Pine	Sawtimber Well	9.4	81	51-80	N/A	Large Scattered pine with a drainage running through it. Looks to have water in it most of the time.																																																		
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50	4133 - Aspen, Mixed Pine	Sapling Well	20.5	27	1-50	N/A	2 aged stand. Aspen is 25 yrs old. White pine about 50. ORV Trail runs through stand. Snow trail on the east boundary. - More oak regen under the more dense pine overstory. Stand has some terrain on the north boundary. Scattered log sized oak along the snowmobile trail. More of an R9 at the west end.																																																		
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51	4130 - Aspen	Sapling Well	24.3	14	Immature	N/A	Stand cut in 2007. nice regen. Stand has ORV trail running through it. There is a good mix of oak regenerating as well. Stand is on some hilly terrain.																																																		
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53	330 - Low-Density Trees	Nonstocked	20.7		Unspecified	No	Old railroad corridor. Opening is filling in with cherry, white pine and aspen.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
54	4130 - Aspen	Sapling Well	11.8	3	Immature	N/A	- Stand was cut in the summer of 2018, 'Goose Cr Flooding Mix' 61-150-17-01. There are some scattered oak and pine left for seed. Also all young white pine was left. - Aspen and red maple are about 4 ft tall and is well stocked.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		30	Sapling	1					
Quaking Aspen		60	Sapling	1	3				
White Pine		8	Sapling/Pole	4					
Red Pine		2	Pole	8					
55	310 - Herbaceous Openland	Nonstocked	0.5		Unspecified	No			
56	4130 - Aspen	Poletimber Well	15.9	46	51-80	N/A	Young A6 stand. spots are still converting from saplings. Quite abit of hardwood in the understory. Diameters are still pretty small, hold for another 10 yrs. Clones of bigtooth seem to be much larger and merchantable.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		70	Pole/Sapling	7	46	Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple		20	Sapling/Pole	3		Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen		10	Pole/Log	9		Black Cherry	Low	>20 feet	Sapling
57	42210 - Natural Red Pine	Poletimber Well	3.9	71	51-80	N/A	Various sizes of red pine mixed with some aspen and oak.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		10	Pole	8		White Oak	Low	5 - 10 feet	Sapling
Red Pine		80	Pole/Log	9	71	Red Maple	Low	Variable	Sapling
Red Maple		5	Pole/Sapling	7					
Red Oak		5	Log	13					
58	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	20.4	63	51-80	N/A	Stand is a buffer to Intermittent drain to the east. There is a decent dropoff down to the bed of the drain. popple and red maple along the west boundary with large white pine in the drain bed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole	8		White Pine	Medium	5 - 10 feet	Sapling
Quaking Aspen		20	Pole	8					
White Pine		60	Log/Pole	10	63				
60	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	43.2	45	1-50	N/A	stand is a real mix of size and density. scattered pole and log timber and filling in with various seedlings and saplings. Red and white pine seeding in with the cherry and aspen clumps. Might be a good place to start some Red pine. Access Could be an issue.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Sapling/Pole	3					
Quaking Aspen		10	Pole/Sapling	5					
White Pine		20	Pole	6					
Red Pine		15	Pole/Sap/Log	8					
Jack Pine		5	Sapling/Pole	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
62	4112 - Maple, Beech, Cherry Association	Poletimber Well	25.7	56	51-80	N/A	stand is transitioning into pole sized trees. mostly clumpy soft maple and a good amount of Cherry. Rolling terrain.																																													
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63	6225 - Bog	Nonstocked	1.5		Unspecified	No																																														
64	6225 - Bog	Nonstocked	0.6		Unspecified	No																																														
65	42210 - Natural Red Pine	Sawtimber Well	57.6	83	81-110	N/A	- Lots of size classes. A mix of lower ground along the west and south edges. There is a drainage along the stands west boundary. - Stand was thinned in winter of 2017. Rain or Shine Pine 61-069-13-01. Residual BA is variable but is good quality natural pine. - some of the more open areas are seeing some aspen sprouts																																													
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66	4311 - Pine, Aspen Mix	Sapling Well	147.3	33	1-50	N/A	Stand is full of mixed species of varying density. It appears to be and old red pine plantation. Scattered Log sized oak and pine with younger aspen, red maple and jack pine. Aspen and jack pine approaching pole size. Red pine appears to be healthy and of good quality. The young aspen looks to be of poor quality in alot of areas and mediocre in others.																																													
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67	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	51.6	15	Immature	N/A	jack pine is 10-15 tall. Some scattered large oak and pine. Some deciduous competition in the plantation.																																													
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68	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	80.3	59	1-50	N/A	Stand is an opening with red maple filling in.																																												
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70	330 - Low-Density Trees	Nonstocked	85.0	0	Unspecified	No	trench and plant to red pine. Site cut and chipped 12/2019 chapter 7 done to trench and plant this entire area to red pine. - The site didn't turn out as clean as we would have hoped. Some aspen and red maple starting to sprout.																																												
72	42210 - Natural Red Pine	Sawtimber Well	53.1	83	51-80	N/A	- Natural stand, lots of size classes. some RP regen present. - Stand was cut in 2017 'Rain or Shine Pine' 61-069-13-01. Removed all of the jack pine and aspen. Marked the red and white pine to cut. The residual BA is a bit variable. Nice quality red and white pine left. - Pockets of A3 regenerating post harvest. Red pine reaching maturity. Oak and maple regen is getting browsed on pretty hard. BA'S - 120																																												
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73	42250 - Pine, Oak	Sawtimber Poor	14.5	91	1-50	N/A	- Stand was harvested in 2017 'Rain or Shine Pine' 61-09-13-01. We marked to leave about 30 sqft/ac of oak and pine. We also saved all the pine less than 6". Stand should regenerate some oak, aspen and white pine. - A trace of oak regenerating but mostly redmaple and white pine. Maybe release the understory in 10yrs.																																												
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74	42210 - Natural Red Pine	Sawtimber Medium	9.4	60	51-80	N/A	Stand was thinned in 2016 'JD 748 Special'. All of the aspen, red maple and jack pine were cut out and the pine was thinned. - Some aspen and red maple sprouting. Overstory Red pine stocking is variable.																																												
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76	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	32.8	51	1-50	N/A	mixed stand of soft maple and jack pine. Stocking is really variable. There is a good amount of poor quality red maple. Recommending a final harvest and plan to red pine.																																												
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77	310 - Herbaceous Openland	Nonstocked	18.8		Unspecified	No	Powerline. Some low spots where branches of Goose Cr cross.																																													
78	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	48.7	15	Immature	N/A	regen 10-15 ft tall, some pockets of aspen and cherry competition.																																													
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80	42210 - Natural Red Pine	Sawtimber Well	59.9	90	81-110	N/A	<p>- Stand is a decent quality natural pine.</p> <p>- Stand was thinned in 2018 Rain or Shine Pine 61-069-13-01. Removed all the jack pine and aspen and marked the red and white pine to cut. The residual BA was a bit Variable but will hopefully allow for white pine regen.</p> <p>- Goose creek has been regularly flooding portions of this stand, mostly caused by beaver dams in st 71. A bit of aspen and red maple. regenerating but not much. The part of the snowmobile trail wasn't thinned in 2018.</p>																																													
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81	42290 - Natural Mixed Pine	Sawtimber Medium	30.6	59	1-50	N/A	<p>All aspen and soft maple was removed from stand in 2007. WP and RP poles were left.</p> <p>- oak is pretty mature. Regen is well stocked in the more open canopy areas, less so where more of a pine overstory was left. There is a small opening in the center of the stand with cherry brush. East end of the stand, along the creek has more of a red pine component in the overstory. Manage stand for the understory. Possibly look to do and overstory removal at some point.</p>																																													
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82	42290 - Natural Mixed Pine	Sawtimber Medium	22.5	68	1-50	N/A	<p>Stand is mostly JP with RP, WP and aspen. jack pine and aspen cut out 8/2019. stand is now in EMR so this scattered openings and some thick areas will be great for EMR habitat. .</p> <p>- stand has a scattered red and white pine over story over a regenerating aspen and red maple understory.</p>																																													
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83	6122 - Black Spruce	Poletimber Well	30.7	68	51-80	N/A	<p>Transition ground to the creek. East side of stand isn't stocked as well. Provides good thermal cover. Nice quality spruce. Also, a part of the EMR.</p>																																													
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84	4319 - Mixed Upland Forest	Poletimber Poor	35.7	71	1-50	N/A	Rough looking timber, mixed bag of species. OI notes said that stand was planted with RP and JP by the CCC in the early 30's. Stocking is variable with lots of voids. Poor quality timber.																																										
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86	122 - Road/Parking Lot	Nonstocked	13.2	0	Unspecified	No	Co Rd 612 and Pipeline																																										
88	622 - Lowland Shrub	Nonstocked	6.0		Unspecified	No	Goose Creek.																																										
89	622 - Lowland Shrub	Nonstocked	43.8		Unspecified	No	Beavers have parts of it backed up.																																										
90	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	11.3	26	Immature	N/A	U0 that is filling in with mostly cherry. Poor quality cherry and red maple. open grown jack pine mixed in with scattered large red pine.																																										
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92	4311 - Pine, Aspen Mix	Poletimber Medium	50.1	51	51-80	N/A	Stand has more of pine component on the east end of the stand. Mixed bag of species. - Red pine and jack pine are mature. Red maple is still kind of small but is very poor quality. Stocking is all over the place. A few nice pockets of bigtooth aspen, quaking is of very poor quality. Looks to be a good redpine site.																																										
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93	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	14.6	68	1-50	N/A	Poor quality aspen and red maple mixed w mixed pine. Old furrows throughout stand? - Recomend final harvest and plant to red pine.																																										
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94	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	13.7	5	Immature	N/A	- Stand was clearcut in 2016 'JD 748 Special' 61-035-03-01. Some larger red pine were left for seed as well as oak. - Some jack pine seeded in and starting to put on some growth. One clone of aspen regenerating along with red maple and cherry.																																																						
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95	42210 - Natural Red Pine	Sawtimber Medium	60.5	80	51-80	N/A	Lots of age-classes and a nice mixed pine stand. Stand has more white pine mixed in the south part of the stand. Quite abit of white pine in the understory. Stand was stand thinned in 2017.																																																						
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97	42210 - Natural Red Pine	Sawtimber Poor	48.6	61	1-50	N/A	- Stand was cut in 2016 'JD-748 Special' 61-035-13-01. Mature red and white pine still present, pockets of R7/R8. Some pockets will come back well to aspen. I expected a decent amount of jack pine to seed in as well. - stand is a mix of R7/A3 /M2. But is mostly regenerating well. Overstory should hold for the next year of entry or 2. Or it could be removed now.																																																						
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98	4319 - Mixed Upland Forest	Poletimber Medium	21.0	51	51-80	N/A	Real mixed stand with not very good stocking. Part timber part brush. Jack pre is starting to fallout. Might Be a good one to start to red pine.																																																						
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99	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	19.0	27	Immature	N/A	very poor quality aspen, red maple and cherry sprouts. Some Scattered pole and log trees. Stocking is patchy.																																																						
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100	4133 - Aspen, Mixed Pine	Sapling Well	26.9	33	Immature	N/A	Not the most even stocking. More of a B. cherry component on the east side of the stand. Quaking aspen with a mix of white and jack pine. West side is more of a red maple and white pine mix.																																								
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101	42120 - Planted Jack Pine	Sapling Well	12.9	15	Unspecified	N/A	Stand cut in 2005 and planted to JP in 2006																																								
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102	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	40.7	11	Immature	N/A	Stand was cut in 2008 and planted to RP in 2010. RP is below the snow line the only thing showing up is some soft maple and aspen sprouts. - Red pine is now 5-8 ft tall. Some areas have more competition than others. Might be a good candidate for a mechanical release.																																								
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104	6120 - Lowland Cedar	Poletimber Poor	2.5	91	1-50	N/A	Leave for wildlife thermal cover. Wet ground, BMP Concerns.																																								
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105	42210 - Natural Red Pine	Sawtimber Medium	50.8	91	51-80	N/A	- Planted in the 30s by the CCC. JP and RP planted together. Stand seems to have lots of age classes. Has perennial drains running through it. Some nice pole timber developing underneath saw timber. Stocking becomes less dense, and more of JP mix, on the west end of the stand. - Stand was thinned in 2016 'JD 748 Special' 61-035-13-01. All of the jack pine and aspen were cut out and the pine was thinned through. - overstory is looking healthy. Pockets of maple, aspen and oak are regenerating. Residual stocking is a bit variable.																																								
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106	310 - Herbaceous Openland	Nonstocked	33.3		Unspecified	No	pipeline																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
108	4319 - Mixed Upland Forest	Sapling Poor	104.8	40	1-50	N/A	A lot of cherry brush with pockets of Saplings and pockets of pole timber. Scattered red pine logs. Very poor quality timber. 4/1/21 WLD - This stand is now considered due to forest succession. It has a good Barrens quality look to it with appropriate species mix, just lack of natural disturbances to maintain mix of shrubs/trees and herbaceous components. Good habitat for early successional suite of wildlife species.																																																						
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109	6124 - Lowland Spruce-Fir	Poletimber Medium	10.2	88	Unspecified	N/A																																																							
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110	42290 - Natural Mixed Pine	Sawtimber Well	11.2	88	51-80	N/A	Nice mixed log stand. Has some low ground along stand 109 and 113.																																																						
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111	4199 - Other Mixed Upland Deciduous	Poletimber Medium	9.6	46	1-50	N/A	stand north of snowmobile left oak, white pine and red maple and had the red pine and jack cut out in 2019. some thick, some more open.																																																						
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113	6225 - Bog	Nonstocked	5.8		Unspecified	No																																																							
114	4319 - Mixed Upland Forest	Poletimber Medium	25.0	59	51-80	N/A	south end of the stand is made up of pockets of pole sized jack pine and scattered red pine. North and west becomes more open grown poor quality red maple. The west part of the stand was thinned last entry and has some pockets of red maple and aspen regen.																																																						
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115	42210 - Natural Red Pine	Poletimber Well	3.2	71	51-80	N/A	Stand acts as a visual buffer for compressor plant.																																				
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116	122 - Road/Parking Lot	Nonstocked	9.8		Immature		processing facility.																																				
117	4311 - Pine, Aspen Mix	Sapling Medium	55.8	6	Immature	N/A	- Cut 1/2014 as Paint the Plow RP, 61-041-13-01. FTP C62-847. Hope to be trenced in 2014.- Stand was planted in 2015. The year 1 survey show that 460TPA and that the stand needs to be released and replanted. - Regen survey data from 2016 shows a very low planted TPA of 460. Aspen has reached a TPA of 774, and our total non-target TPA is 1012.- Stand was herbicided with the skidder on 9/14/17. - Stand was replanted in 2018. Brought back up to 950 TPA. - Regen survey (10/25/2018) showed that the Herbicided worked in some areas but not others. Stand is about ~60%FTG. There was also a decent amount of mortality in the stuff that was replanted. The whole stand has about ~30% mortality with a final TPA of 675. I think this might be due to the trenches filling in and the herbicide working in only certain spots. - 2020 regen report shows 57% FTG, mortality of 36% for a final TPA of 530 TPA, the trench is closed in. Stand didn't get the release spray that was scheduled. At this point I think we have to accept this as the competition by now is too tall for the skidder.																																				
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119	622 - Lowland Shrub	Nonstocked	1.2	0	Unspecified	No																																					
120	6127 - Lowland Pine	Sawtimber Medium	9.1	91	1-50	N/A	Stand is some large white pine islands amongst the Goose Cr. Flooding area. Tag Alder understory.																																				
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