



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63086

Entry Year 2017

Acreage: 2,570

County Missaukee

Management Area: Manistee River Valley

Revision Date: 2015-07-08

Stand Examiner: Steve Eisele

Legal Description:

T24N, R6W, Sec. 1,2,3,10.12

Identified Planning Goals:

Vegetation management in the Manistee River Valley management area (MA) will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period includes continuing aspen management to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; focusing on balancing the red pine age class structure through final harvests and re-planting; and on improving red pine quality through partial harvests. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; an increased wildland/urban interface and a need to restore barrens communities through prescribed fire; and invasive plant control.

Soil and topography:

Montcalm-Grayling, Rubicon sands. Mostly level terrain with many wet areas.

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

Solid sections of state land with the exception of Horseshoe lake on the west half of section 2. This private land contains cabins and some full time residences. Limited fishing in flooded area. Hunting, ORV use and snowmobile trail are the main forms of recreation.

Unique Natural Features:

Massasauga and wood turtle potential near cannon flooding. Also listed as potential species include great blue heron, osprey, eagle and assorted turtles.

Archeological, Historical, and Cultural Features:

Woodland mounds and Late Woodland camp listed within compartment.

Special Management Designations or Considerations:

Continue to maintain age class diversity. Monitor and encourage oak regeneration where possible.

Watershed and Fisheries Considerations:

Big Cannon Creek is a designated stream under the Upper Manistee River State Natural Rivers Zoning. Under the Upper Manistee River Natural River Plan, Big Cannon Creek has special protection (see page 41 of the plan), where no cutting may be done closer than 100 feet from the river's edge, subject to seasonal, wetland, and topographic restrictions.

Wildlife Habitat Considerations:

This compartment contains Cannons Creek #2 Flooding SWMA. Numerous reptiles, amphibians, various waterfowl, and other bird species are associated with the flooding and associated wetlands. Uplands provide valuable year-round deer habitat. Bear, bobcat, beaver, ruffed grouse, woodcock, and turkeys utilize this area. The goal of maintaining various timber types and age classes, maintaining the impoundments, and manipulating the blueberry and shrub component associated with the grassland and upland brush type will continue to benefit a wide variety of game and non-game species. Featured species of special interest are eastern massasauga rattlesnake, American bittern, mallard, ruffed grouse, and deer. Timber sale specifications to benefit wildlife (where applicable) will include brush pile creation along lowland edges, protection of mast-bearing wildlife shrubs and ironwood, protection of standing dead snags, and creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts. (E. Victory 6/2015)

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 200 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan

Formation is quarried for gypsum in other areas of the State. A gravel pit is located to the north and gravel potential appears to be good on the uplands. East Norwich Field is located three miles to the east. The field has produced over 15.9 million BO and 15.7 Bcf gas from the Devonian Richfield Formation. It is in secondary recovery operations currently. There are no State lands currently leased in the Compartment

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally. Proposed new roads or roads recommended for substantial improvement are noted below.

Survey Needs:

Survey corners are established through out the compartment. The actual private lines will need to be run for sale set up.

Recreational Facilities and Opportunities:

Numerous motorized recreational trails are located within this compartment. The Mis-Kal route, North Missuakee ORV trail, (maximum 50" width) North Missuakee Cycle trail, Michigan Cross Country Cycle trail (MCCCT), and Snowmobile trail #6 are all located within this compartment. Trail protection specifications should be included in any timber sale potentially impacting these trails. Specifically, appropriate measures identified in DNR Policy and Procedures "32.22XX" (Best Management Practices for Forest and Wildlife Management Adjacent to Recreation Trails) should be taken into consideration when setting up timber sales within this compartment. The area also has some Wildlife Flooding areas, which provide hunting and fishing opportunities. There is also dispersed camping in the area. (T.M.N. 12/16/14)

Fire Protection:

There is some private land in the compartment which provides Urban Interface problems. There are some low areas which could cause difficult access for suppression equipment. There are some small pine areas with mixed hardwoods.

Additional Compartment Information:

The following reports from the Inventory are attached:

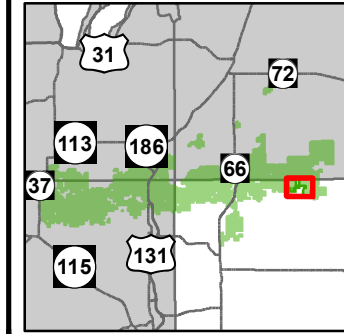
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

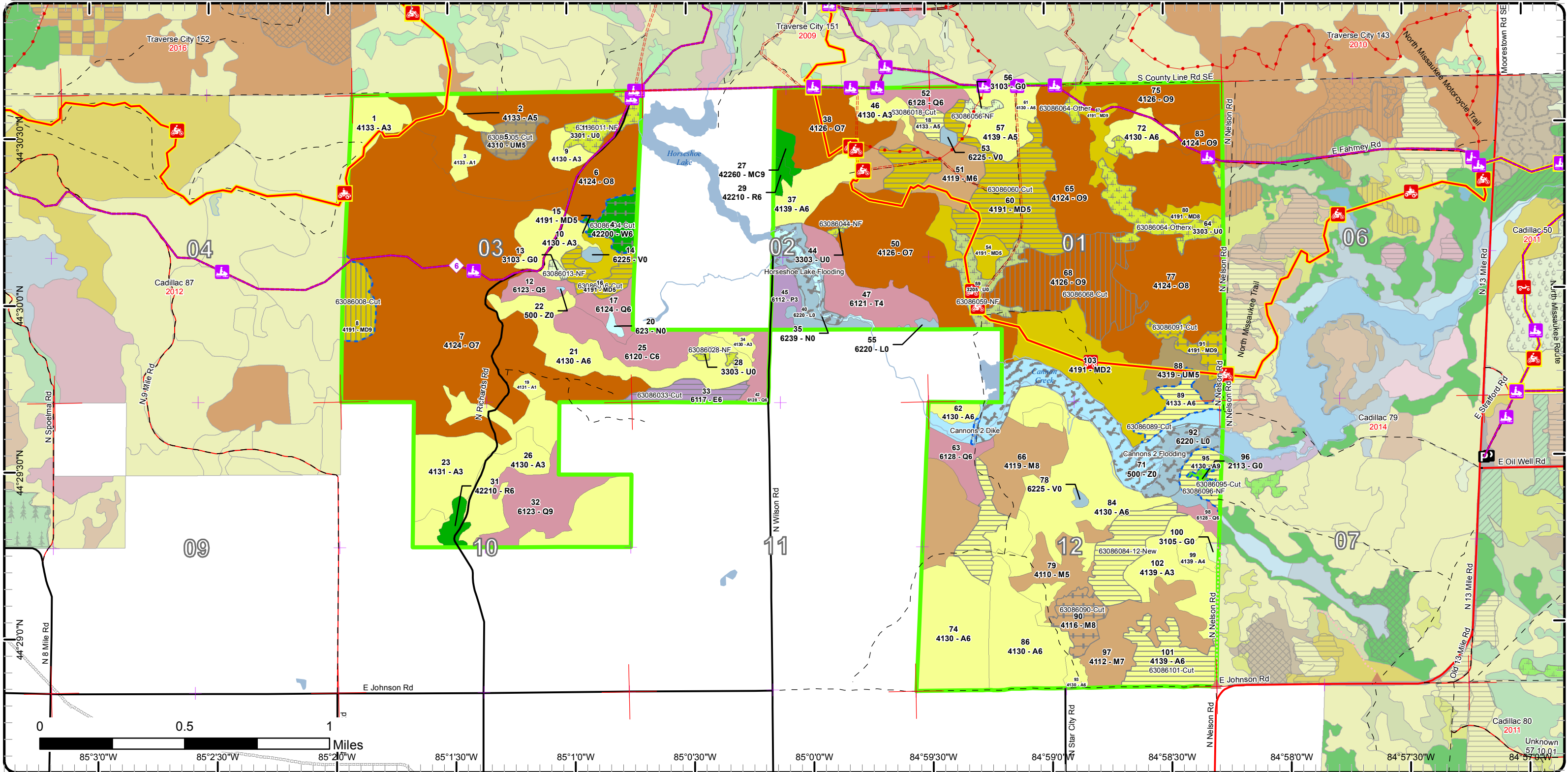
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

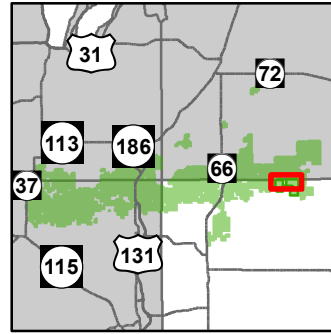
Compartment: 86
 T24N R06W Sec. 01, 02, 03, 10, 12
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Manistee River Valley
 YOE: 2017
 Acres: 2570 GIS Calculated
 Examiner: Steve Eisele
 Map Revised: 7/14/2015
 Map Phase: Pre-Review



- ✚ Remonumented Section Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- ▲ Berms
- P Parking Lot
- 🚲 MCCCT Trails
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- 🚲 ORV License & Trail Permit
- Designated ATV
- Designated ORV Routes
- Designated Snowmobile Trails
- Designated MCCCT Trails
- Rivers
- Lakes
- Pipeline
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Water Level Management
- Other Treatment - See Comments
- Harvest, Overstory Removal
- Shelter Wood (w/Reserves)
- Forest Covertype
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 430 - Upland Mixed Fores
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Covertype
 - 211 - Cropland
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

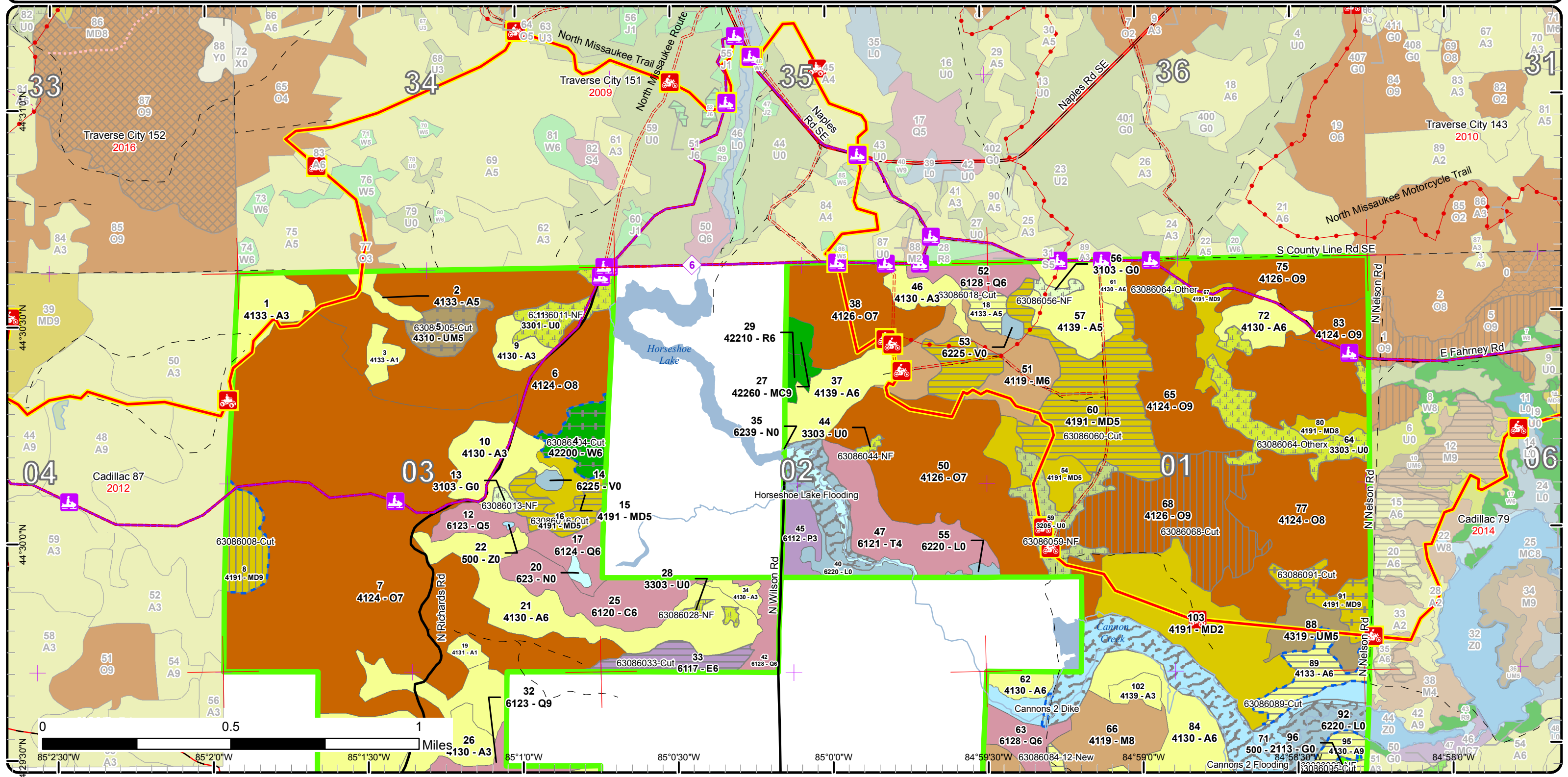


Cover Type & Treatments



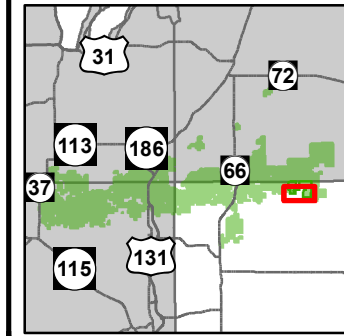
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<ul style="list-style-type: none"> Remonumented Section Corners Miris Corners Paved Roads County Gravel Roads Poor Dirt Roads County Poor Dirt Roads Trail (Non-Recreation) Closed Roads Motorcycle Trails (DNR License) MCCCT Trails ORV Trails ORV Routes 	<ul style="list-style-type: none"> Snowmobile Trails ORV License & Trail Permit Designated ATV Designated ORV Routes Designated Snowmobile Trails Designated MCCCT Trails Rivers Lakes Treatments with Site Conditions Clearcut (w/Reserves) Water Level Management Other Treatment - See Comments Harvest, Overstory Removal Shelter Wood (w/Reserves) 	<p>Forest Covertype</p> <ul style="list-style-type: none"> 411 - Northern Hardwood 412 - Oak Types 413 - Aspen 419 - Mixed Upland Deciduous 422 - Natural Pines 430 - Upland Mixed Fores 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest <p>Non-Forest Covertype</p> <ul style="list-style-type: none"> 211 - Cropland 310 - Herbaceous Openland 320 - Upland Shrub 330 - Low Density Trees 500 - Water 622 - Lowland Shrub 623 - Emergent Wetland
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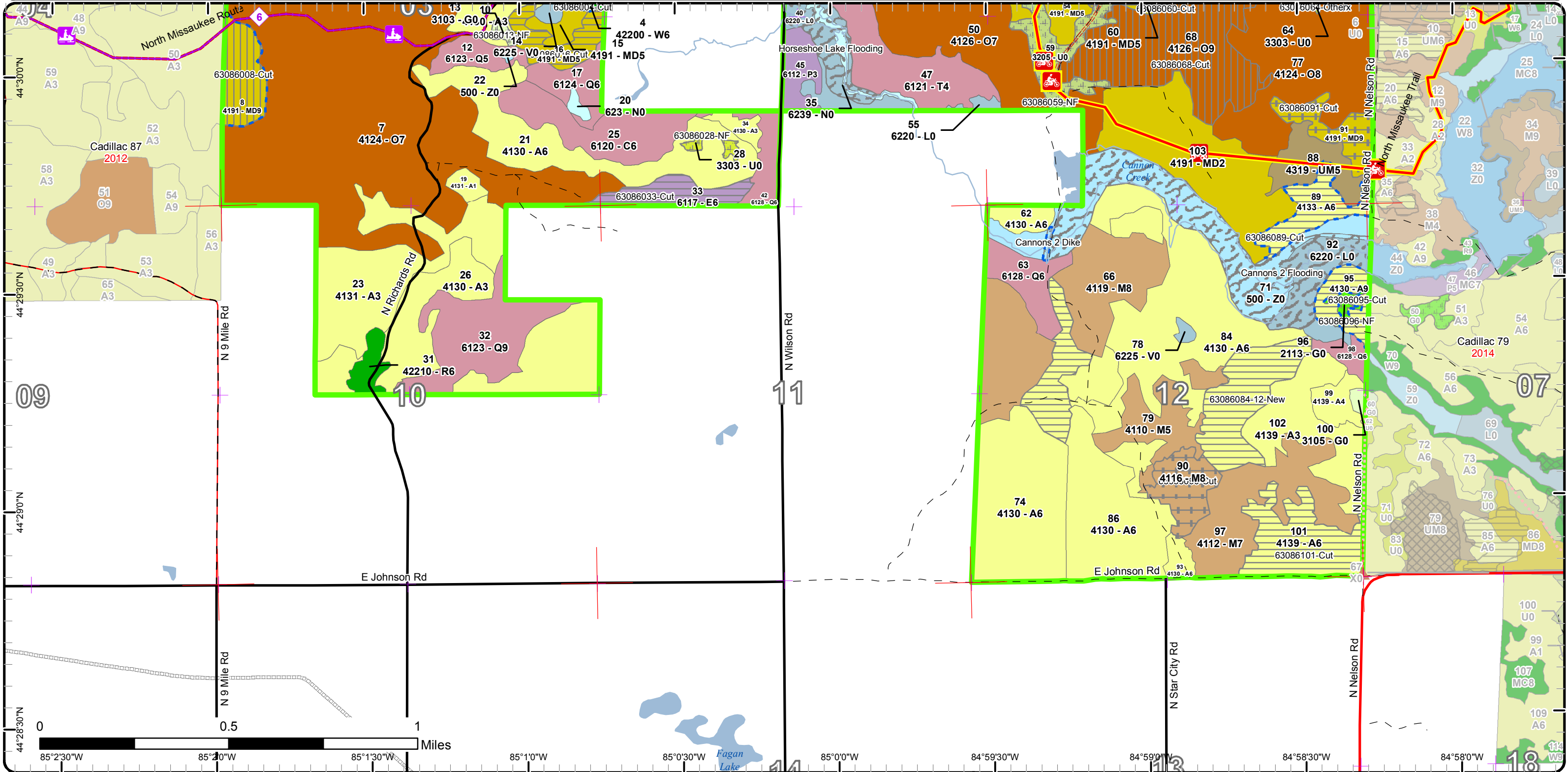


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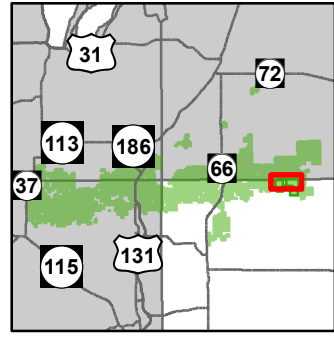
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- Designated ORV Routes
- Designated Snowmobile Trails
- Designated MCCCT Trails
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- Designated ATV

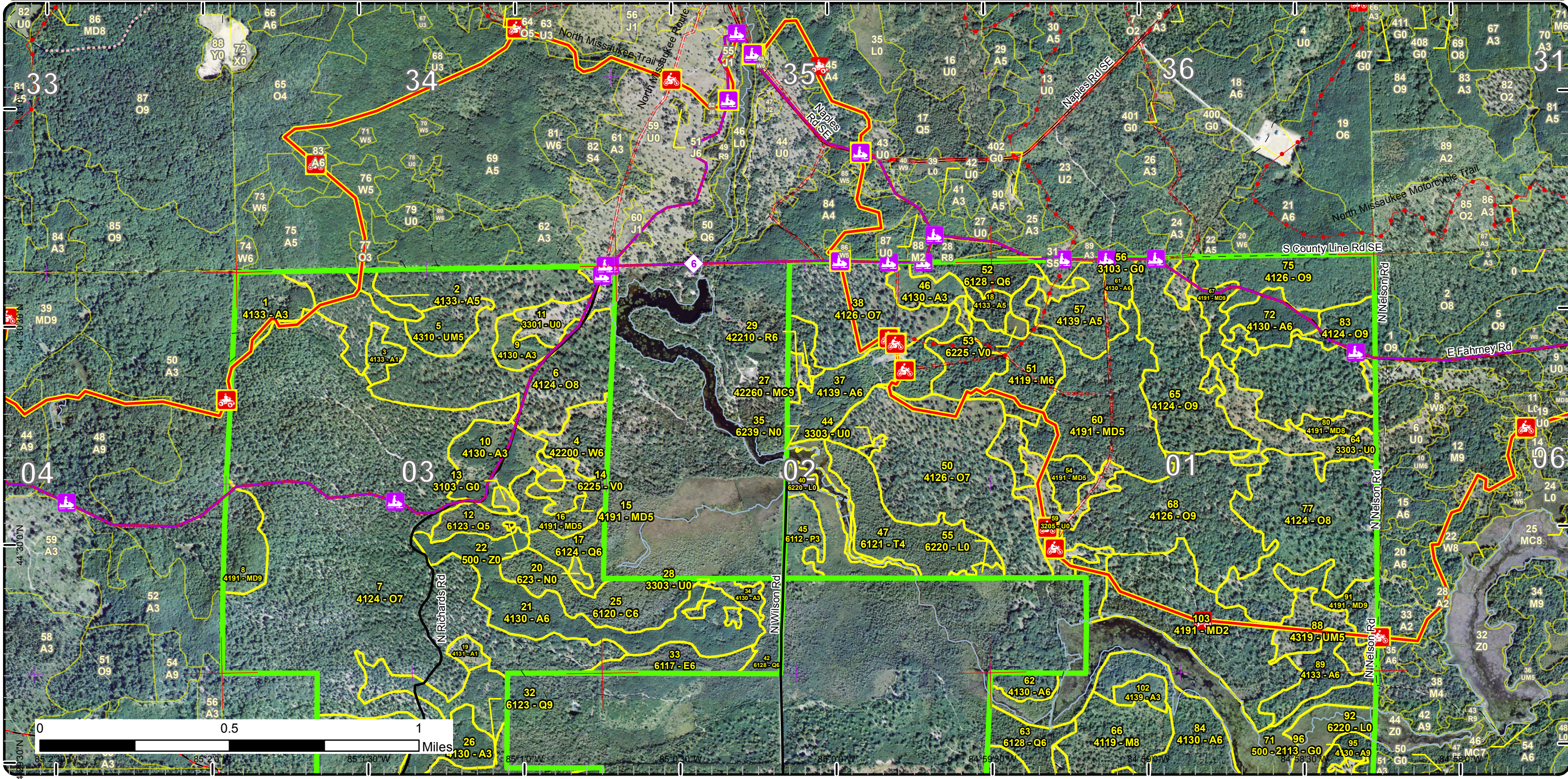


Stand Boundary Map



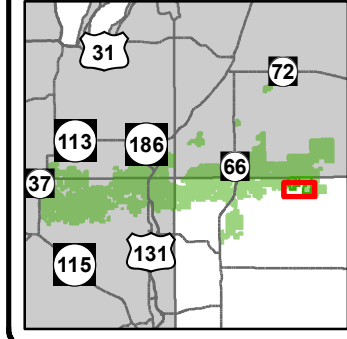
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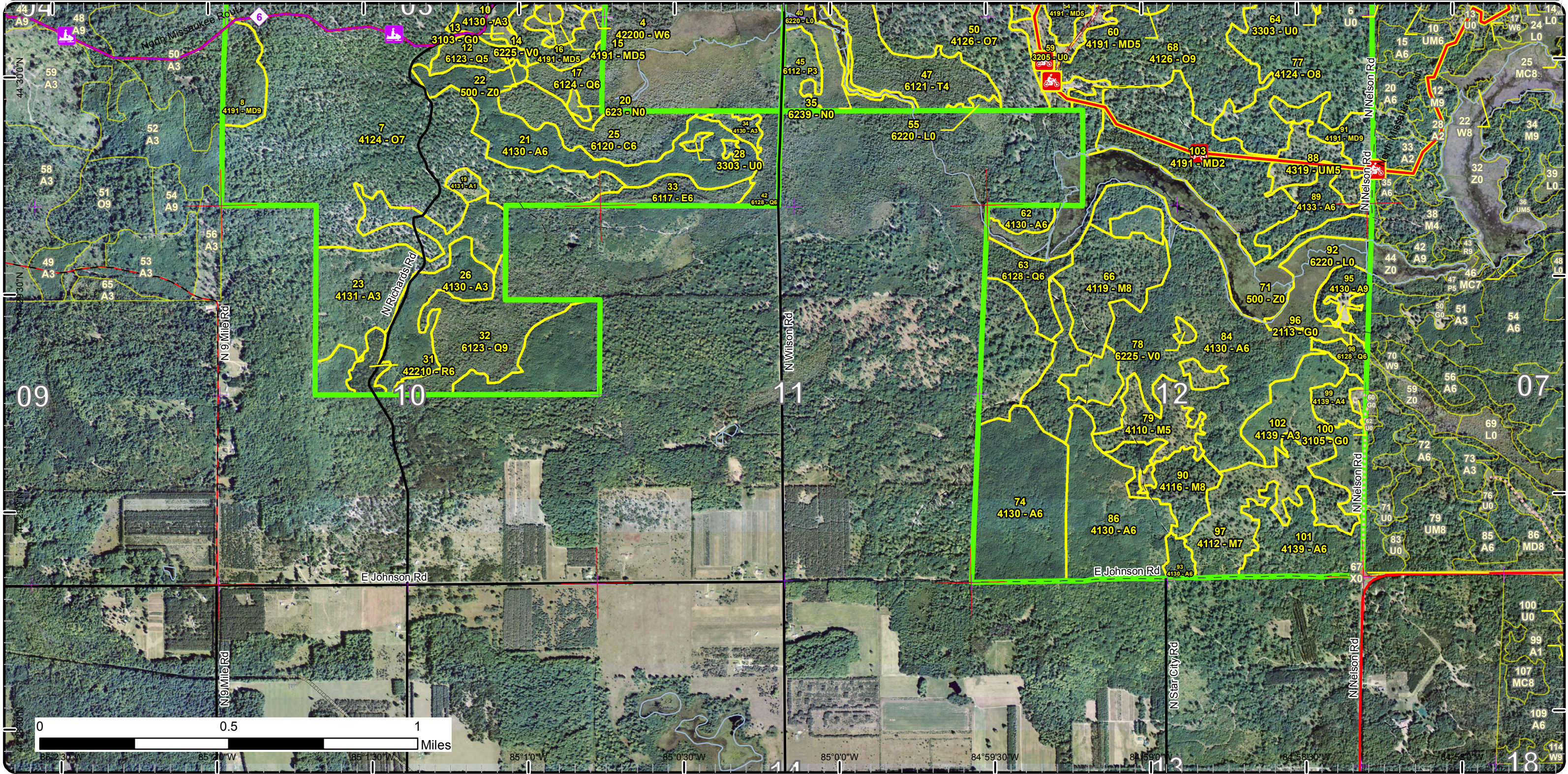


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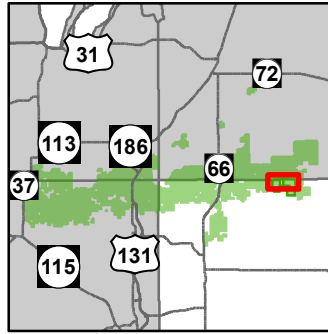


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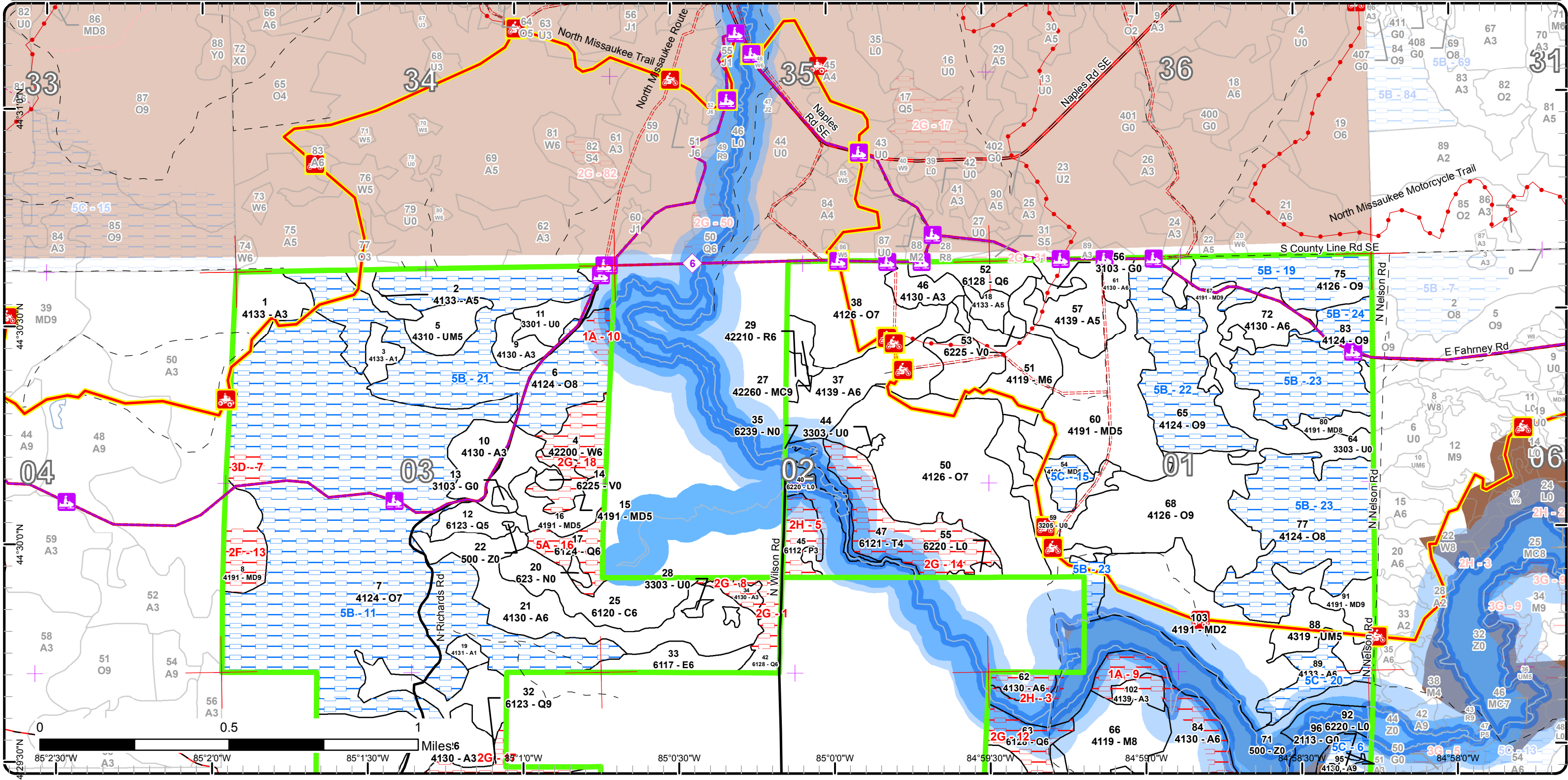


Special Conservation Areas & Site Conditions Map

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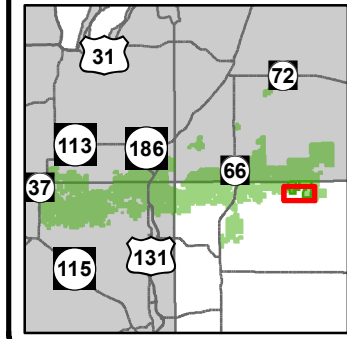


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|---|---|---|

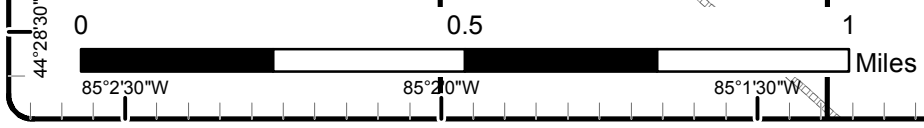
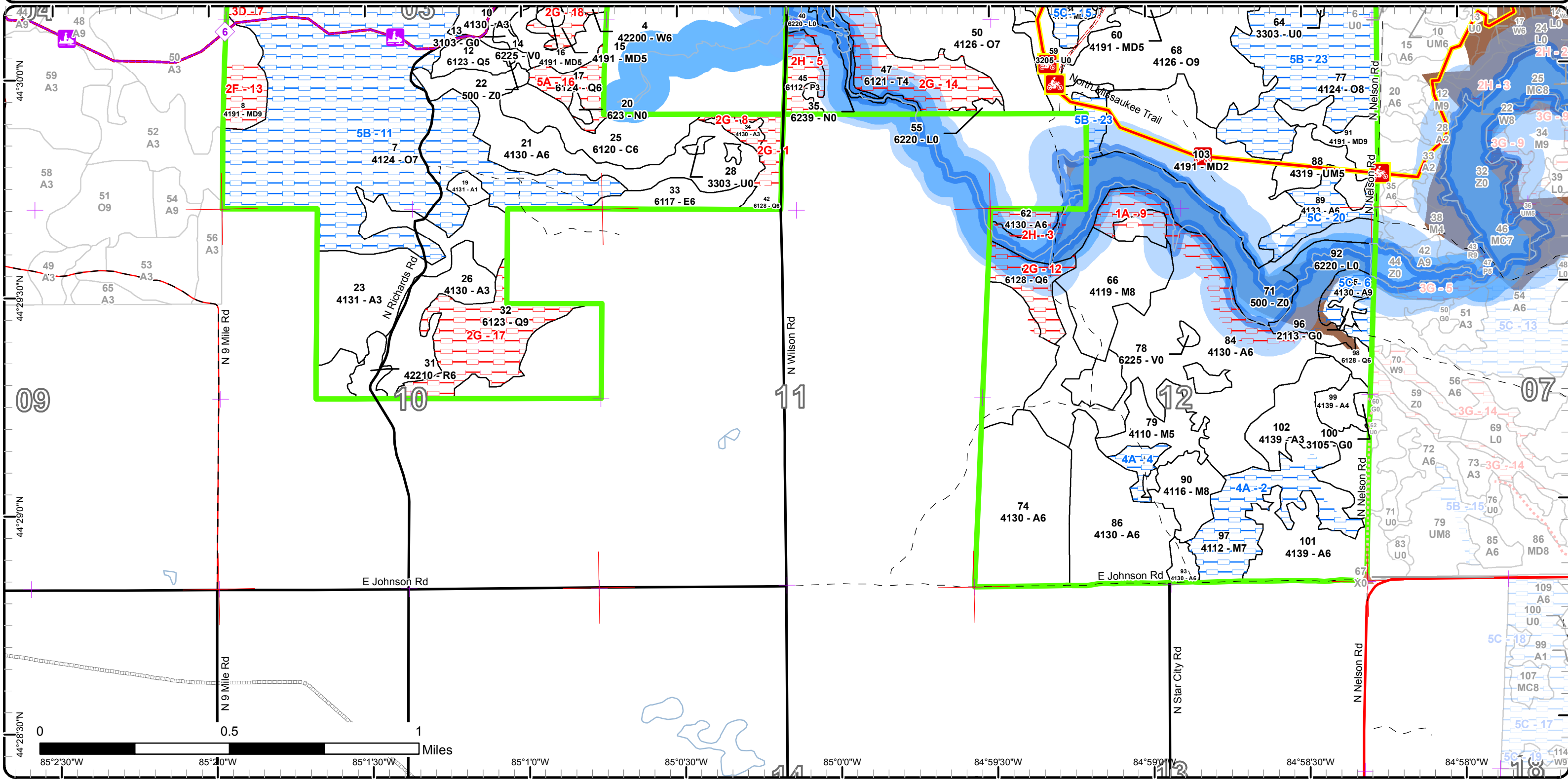


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- Pipeline
- Stand Boundaries
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 1A: Federal/State/Local Law
- 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
- 5A: Not able to obtain desirable regeneration
- Special Conservation Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Wildlife Management Areas



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit
Steve Eisele : Examiner

Compartment 86 Year of Entry 2017



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	75	128	269	0	65	180	29	0	0	0	0	0	0	0	0	0	0	746
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	33
Cropland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Aspen/Balsam Poplar	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	98	114
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
Lowland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170	236
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Northern Hardwood	0	0	0	0	0	65	17	47	0	0	0	0	0	0	0	0	0	70	199
Oak	0	0	0	0	0	0	0	0	12	651	0	0	0	0	0	0	0	248	911
Red Pine	0	0	4	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	11
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	39
Upland Mixed Forest	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	17	30
Upland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Water	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
White Pine	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	15
Total	202	153	132	269	0	137	226	91	0	12	651	0	0	0	0	0	0	695	2568



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 86

Total Compartment Acres: 2,570

Commercial Harvest - 0
 Harvests with Site Condition - 62
 Next Step Harvest - 0
 Habitat Cut - 169

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	119	0	0	0	0	0	0	0	0	119
Lowland Deciduous	15	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	95	0	0	0	18	0	14	0	0	128
Northern Hardwood	0	0	0	0	0	0	17	0	0	17
Oak	0	0	0	0	71	0	0	0	0	71
Upland Mixed Forest	0	0	0	0	0	0	13	0	0	13
White Pine	0	0	0	0	0	0	15	0	0	15
Total	229	0	0	0	89	0	61	0	0	379

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	379	0	0	0	0	0	30	139		548
Next Step	0	0	0	0	0	0	379	0	0	379
Total	379	0	0	0	0	0	379	30	139	927



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
4	63086004-Cut	15.3	42200 - Natural White Pine	Poletimber Well	65	81-110	Harvest	Overstory Removal	42290 - Natural Mixed Pine	Even-Aged	Proposal
Habitat Cut: No		Site Condition: Too Wet									
<u>Prescription</u> Overstory removal of log size pine. regen is well established											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Natural mixed pine											
<u>Regen:</u>											
<u>Other</u> Hummocky ground Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
5	63086005-Cut	13.4	4310 - Pine, Oak Mix	Poletimber Medium	55	81-110	Harvest	Overstory Removal	42250 - Pine, Oak	Uneven- Aged	Proposal
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Do an overstory removal of mature pine and oak. Mark a few mast oak to leave. regen is well established.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Pine oak mix											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
8	63086008-Cut	17.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	85	81-110	Harvest	Shelterwood	4122 - Oak, Pine	Uneven- Aged	Proposal
Habitat Cut: No		Site Condition: Too Steep									
<u>Prescription</u> Do an oak shelterwood leave 70-80 ba. May want to cut with adjoining compartment due to small acreage											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Oak, Pine											
<u>Regen:</u>											
<u>Other</u> Filling in with white pine. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
11	63086011-NF	15.1	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
Habitat Cut: Yes		Site Condition:									
<u>Prescription</u> Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2015											



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
13	63086013-NF	1.8	3103 - Rubus-Fern	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2015

16	63086016-Cut	14.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	85	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription 2 inch spec on all species except oak. Leave oak less than 8 inch dbh

Specs:

Next Step

Treatments:

Acceptable Mixed upland forest

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

18	63086018-Cut	5.8	4133 - Aspen, Mixed Pine	Poletimber Medium	50	1-50	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut , leave a few pine along wet edge.

Specs:

Next Step

Treatments:

Acceptable Aspen mixed conifer

Regen:

Other

Comment: winter harvest Old next step comments:

Proposed Start Date: 10/1 /2016

28	63086028-NF	2.2	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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
33	63086033-Cut	14.6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	75	1-50	Harvest	Clearcut with Retention	6118 - Lowland Deciduous with Cedar	Uneven-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription final harvest, leave cedar and low areas

Specs:

Next Step

Treatments:

Acceptable lowland deciduous with cedar

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

44	63086044-NF	1.1	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

56	63086056-NF	2.7	3103 - Rubus-Fern	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2015

59	63086059-NF	21.0	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Maintain as an opening/upland shrub. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2015



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
60	63086060-Cut	81.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	55	Unspec ified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Do 6-8 patch clear cuts through out stand area. Make each cut area around 5 acres in size. Leave oak in the cut areas. Choose areas with larger
Specs: diameter aspen.

Next Step
Treatments:

Acceptable Aspen Mixed deciduos
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

64	63086064- Other	2.4	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	Other	Other	3303 - Mixed Low Density Trees		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription keep as low density trees. this may include cutting some trees/brush as needed to keep in a low density state.
Specs:

Next Step
Treatments:

Acceptable mixed low density trees
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2015

64	63086064- Otherx	27.4	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	Other	Other	3303 - Mixed Low Density Trees		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription keep as low density trees. this may include cutting some trees/brush as needed to keep in a low density state.
Specs:

Next Step
Treatments:

Acceptable Any combination of mixed low density trees.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

68	63086068-Cut	71.3	4126 - White, Black, N. Pin Oak	Sawtimber Well	90	51-80	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Leave approx. 30-40 ba of oak. Do not cut any oak less than 8 inch dbh
Specs:

Next Step
Treatments:

Acceptable mixed upland deciduous
Regen:

Other Regen well established Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
84	63086084-12-New	50.9	4130 - Aspen	Poletimber Well	55	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription This may not be the actual treatment boundary. This area is broken out to represent a portion of stand 84 to be treated. Look for areas of solid aspen patches with larger (8 plus inches) diameters to treat.

Next Step Treatments:

Acceptable Regen: Aspen mixed deciduos

Other Comment: Some open areas naturally won't be treated. This will be a summer or winter cut only due to Massasauga Rattlesnake Old next step comments:

Proposed Start Date: 10/1 /2016

89	63086089-Cut	17.6	4133 - Aspen, Mixed Pine	Poletimber Well	60	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition: Age-Class or Site Quality

Prescription Clear cut leaving smaller diameter oak and mark some mast oak to leave. Buffer south edge along flooding but remove individual aspen and maple where possible, leave pine for buffer.

Next Step Treatments:

Acceptable Regen: aspen mixed deciduous

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

90	63086090-Cut	17.3	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	55	51-80	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Do an overstory removal of log size maple and cherry. Cut all aspen

Next Step Treatments:

Acceptable Regen: mixed upland deciduous aspen, maple, cherry

Other Comment: Leave small island areas for retention. Regen well established but patchy in some areas Old next step comments:

Proposed Start Date: 10/1 /2016

91	63086091-Cut	14.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	85	81-110	Harvest	Overstory Removal	4122 - Oak, Pine	Uneven-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Remove oak and pine. Leave a few mast oak

Next Step Treatments:

Acceptable Regen: oak pine mix

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016



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
95	63086095-Cut	11.5	4130 - Aspen	Sawtimber Well	60	Unspec ified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal

Habitat Cut: No **Site Condition: Age-Class or Site Quality**

Prescription Clear cut areas you can get to. There will be a natural buffer just due to the wet edge. Also buffer rye field and Cannon flooding. Leave oak.

Specs:

Next Step

Treatments:

Acceptable Aspen mixed deciduous

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

96	63086096-NF	2.4	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes **Site Condition:**

Prescription Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush, planting shrubs or other mast/cover species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2015

101	63086101-Cut	33.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	58	Unspec ified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Two-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Clear cut solid aspen areas. Mark some larger oak for mast. Do not cut any oak less than 8 inch dbh Winter or Summer cut for Massasauga

Specs:

Next Step

Treatments:

Acceptable Aspen Mixed deciduous

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

71	Cannons 2 Dike	0.7	500 - Water	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	6239 - Mixed Emergent Wetland		Proposal
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Habitat Cut: Yes **Site Condition: Blocked by Obstacle**

Prescription Maintain dike and structure. Clear trees and brush using mechanical or chemical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 9 /9 /2015



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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
71	Cannons 2 Flooding	70.1	500 - Water	Nonstocked		Unspecified	NonForestMgt	Water Level Management	6239 - Mixed Emergent Wetland		Proposal

Habitat Cut: Yes

Site Condition:

Prescription Temporary or sustained drawdowns as needed for structure and habitat management. Dam name Cannons #2. Seeding possible in needed.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2015

35	Horseshoe Lake Flooding	22.2	6239 - Mixed Emergent Wetland	Nonstocked		Unspecified	NonForestMgt	Water Level Management	623 - Emergent Wetland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription This area is subject to water level manipulations at the private dam on Horseshoe lake to the northwest.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 547.9

Report 5 – Site Conditions

Cadillac Mgt. Unit
Steve Eisele : Examiner

Compartment: 86
Year of Entry: 2017

Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions								
	Available	Not Available		1A	2F	2G	2H	3D	4A	5A	5B	5C
748	670	78	Aspen	31		4	7		6			29
6	6	0	Bog									
33	33	0	Cedar									
2	2	0	Cropland									
6	6	0	Herbaceous Openland									
48	48	0	Low-Density Trees									
12	0	12	Lowland Aspen/Balsam Poplar				12					
114	32	82	Lowland Conifers			69				13		
15	15	0	Lowland Deciduous									
48	46	2	Lowland Shrub				2					0
9	9	0	Marsh									
235	208	27	Mixed Upland Deciduous		12	8		0				8
5	5	0	Natural Mixed Pines									
198	158	40	Northern Hardwood			1			39			
911	215	697	Oak	5				5			686	
11	11	0	Red Pine									
39	0	39	Tamarack			39						
30	30	0	Upland Mixed Forest									
21	21	0	Upland Shrub									
62	60	3	Water				3					
15	0	15	White Pine			15						
2,569	1,575	995	Total Forested Acres	36	12	136	23	5	45	13	686	37
	61%	39%	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	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Cadillac Mgt. Unit
Steve Eisele : Examiner

Compartment: 86
Year of Entry: 2017

2	Available	4A: No Markets Available for these Forest Products	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Gather information necessary to decide whether to plant white pine, and where to put it. Timber Management Specialist will survey--							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Gather info necessary to decide to plant white pine (how much and where). --- POST STAGE 2 ANALYSIS DEEMED THAT INCREASING WHITE PINE WAS NOT AN OBJECTIVE FOR THIS COMPARTMENT.							
4	Available	4A: No Markets Available for these Forest Products	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unit manager and wildlife biologist concur no further data needed.-- NO TREATMENT AT THIS TIME.							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No further data needed. -- DECISION WAS MADE AFTER STAGE 2 ANALYSIS TO HOLD THIS STAND.							
7	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Data gathered for large stand to the east will be sufficeint. No treatment at this time.							

Report 5 – Site Conditions

Cadillac Mgt. Unit
Steve Eisele : Examiner

Compartment: 86
Year of Entry: 2017

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Make determination during stage 2 if accesable and if not too wet.							
9	Unavailable	1A: Federal/State/Local Law	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Only a portion of this stand will be treated. No further datat needed.							
10	Unavailable	1A: Federal/State/Local Law	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Use stand 7 as an example of site and timber type after treatment.							
11	Available	5B: Maintain for regeneration purposes	343	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Oak overstory over regen.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2F: Too steep	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Cadillac Mgt. Unit
Steve Eisele : Examiner

Compartment: 86
Year of Entry: 2017

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5A: Not able to obtain desirable regeneration	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Cadillac Mgt. Unit
Steve Eisele : Examiner

Compartment: 86
Year of Entry: 2017

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5B: Maintain for regeneration purposes	119	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Oak overstory over regen.							
22	Available	5B: Maintain for regeneration purposes	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Oak overstory over regen.							
23	Available	5B: Maintain for regeneration purposes	125	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Oak overstory over regen.							
24	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Oak overstory over regen.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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 7 – 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 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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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.

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Cadillac Mgt. Unit

Report 8 – Forested Stands

Compartment: 86
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4133 - Aspen, Mixed Pine	Sapling Well	19.9	26	Immature	Some open areas. Cut in 89, getting to pole size.
2	4133 - Aspen, Mixed Pine	Poletimber Medium	5.4	26	Unspecified	Same as 1 and 3
3	4133 - Aspen, Mixed Pine	Sapling Poor	6.3	26	Unspecified	Same as 1 and 2
4	42200 - Natural White Pine	Poletimber Well	15.3	65	81-110	
5	4310 - Pine, Oak Mix	Poletimber Medium	13.4	55	81-110	Do an overstory removal or diameter cut. Remove all log size trees marking a few mast oak to leave. Release established regen. Stand is going to white pine
6	4124 - Red with White Oak	Sawtimber Medium	124.3	90	1-50	Treated with sale 63-047-07-01 Residual oak looks healthy.
7	4124 - Red with White Oak	Sawtimber Poor	348.2	90	51-80	Regen finally coming in with some patches of solid oak. Overstory residual oak still looks healthy with a few being stolen for firewood. Look at an overstory removal next time when regen is well established.
8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	17.7	85	81-110	Do an oak shelterwood leave 70 to 80 ba. This stand is a hillside will have to build a road or skid trail in to it. May treat with adjoining compartment due to small acreage.
9	4130 - Aspen	Sapling Well	8.6	4	Immature	Bottom of hill, but not wet. Treated with sale 63-043-07-01
10	4130 - Aspen	Sapling Well	25.8	17	Unspecified	Cut in 98 came back mostly solid but a few patchy spots. Scattered red oak log trees left.
12	6123 - Lowland Fir	Poletimber Medium	10.3	50	51-80	
15	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	7.7	50	1-50	
16	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	14.1	85	51-80	
17	6124 - Lowland Spruce- Fir	Poletimber Well	13.2	90	51-80	Very wet, low coniferous, deer yard area. High amount of Balsam/ spruce
18	4133 - Aspen, Mixed Pine	Poletimber Medium	5.8	50	1-50	Some scattered monarch pine. Winter final harvest to promote better sprouting. leave some larger pine for retention.
19	4131 - Aspen, Oak	Sapling Poor	3.8	18	Unspecified	Final harvest area from previous oak sale. Almost non forested, just enough coming back in to have canopy. Patchy regen

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Cadillac Mgt. Unit

Report 8 – Forested Stands

Compartment: 86
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4130 - Aspen	Poletimber Well	57.9	26	Unspecified	cut in 89 just getting to pole size came back solid
23	4131 - Aspen, Oak	Sapling Well	95.1	26	Immature	Cut in 89 just getting to pole size. Good mix of species. Some open areas
25	6120 - Lowland Cedar	Poletimber Well	32.6	100	81-110	West end not as much subcanopy and more log size trees.
26	4130 - Aspen	Sapling Well	37.4	18	Unspecified	Cut in 97 solid aspen getting to pole size
27	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.3	60	81-110	Natural pine stand, l small acreage.
29	42210 - Natural Red Pine	Poletimber Well	3.8	18	51-80	
31	42210 - Natural Red Pine	Poletimber Well	7.3	42	81-110	
32	6123 - Lowland Fir	Sawtimber Well	43.2	70	141-170	Deer yard.
33	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	14.6	75	1-50	Some low spots with humocky ground. Thick Balsam understory. A few Wp super canopy. Deer yard. Some blowdown.
34	4130 - Aspen	Sapling Well	4.4	5	Immature	Final harvested with sale # 008-09-02
37	4139 - Aspen, Mixed Deciduous	Poletimber Well	24.6	45	Unspecified	Some areas solid aspen. East end solid black cherry.
38	4126 - White, Black, N. Pin Oak	Sawtimber Poor	47.4	90	1-50	Salvaged dead and dying oak. Stand was cut with sale #63-027-09-01
42	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.7	90	81-110	Varies alot. Cedar patches, alder patches, mix hwd areas, old over topping aspen. alot of dead and down-hard to walk thru. All low and wet. Deer yard under cedar spots. small flowing creek near main rd. on east side.
45	6112 - Lowland Aspen	Sapling Well	11.9	5	Unspecified	Treated with sale #008-09-02
46	4130 - Aspen	Sapling Well	9.9	5	Immature	Cut in 2010 came back pretty solid.
47	6121 - Tamarack	Poletimber Poor	38.7	85	1-50	Wet Tamarack/conifer sparse canopy, multi layers
50	4126 - White, Black, N. Pin Oak	Sawtimber Poor	93.4	90	1-50	Stand was cut with sale #63-027-09-01



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	4119 - Mixed Northern Hardwoods	Poletimber Well	38.9	45	51-80	Recovering "upland brush." Lot of poor quality scattered black cherry poles along with scattered aspen clones.
52	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	12.9	90	81-110	Large diameter Wp with areas of alder, low, wet. Some areas of solid cedar. Ridge areas have the pine.
54	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	15.1	80	51-80	Hilltop/ridge surrounded by open, shallow valleys.
57	4139 - Aspen, Mixed Deciduous	Poletimber Medium	27.2	45	Unspecified	
60	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	81.3	55	Unspecified	A difficult stand to categorize. A recovering upland brush area. Mostly smallish aspen growing amidst black cherry.
61	4130 - Aspen	Poletimber Well	5.6	45	Unspecified	Still healthy and growing well, leave until next year of entry
62	4130 - Aspen	Poletimber Well	6.9	15	Immature	Stand treated and closed in 2000
63	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.0	55	111-140	
65	4124 - Red with White Oak	Sawtimber Well	54.0	90	51-80	Treated with sale #39-07 Left pole size maple along with sawlog oak marked green to leave. Good regen of aspen, maple and oak coming in.
66	4119 - Mixed Northern Hardwoods	Sawtimber Medium	69.5	45	51-80	Very patchy. Open savannah areas
67	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.5	65	81-110	Very mixed stand of sizes and species. Good corridor stand right now between recent cuts. Treat next yoe
68	4126 - White, Black, N. Pin Oak	Sawtimber Well	71.3	90	51-80	
72	4130 - Aspen	Poletimber Well	15.1	27	Unspecified	Transitioning to pole size aspen stand
74	4130 - Aspen	Poletimber Well	65.6	27	Unspecified	
75	4126 - White, Black, N. Pin Oak	Sawtimber Well	35.3	90	51-80	Very low quality overall. Some super canopy pine. Filling in with wp saps.
77	4124 - Red with White Oak	Sawtimber Medium	125.1	90	1-50	Treated with sale # 39-07 Left sawlog oak and pine. Good regen of maple aspen and oak coming in
79	4110 - Sugar Maple Association	Poletimber Medium	25.8	40	51-80	Savannah type open stand with mostly black cherry trees.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
80	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	6.5	65	51-80	Scattered open pockets of wp /bc. some sawlog oak.
83	4124 - Red with White Oak	Sawtimber Well	12.3	80	81-110	Stand recently thinned (1999 permit). Oak was thinned aspen and maple removed.
84	4130 - Aspen	Poletimber Well	140.6	55	Unspecified	Treat whole stand but leave some islands of smaller diameter areas. There are some open areas that naturally won't be treated. Site condition along flooding is buffer area, do not treat.
86	4130 - Aspen	Poletimber Well	54.0	16	Unspecified	Cut in 99
88	4319 - Mixed Upland Forest	Poletimber Medium	16.9	45	1-50	Multiple Hawthorne beds, good for wildlife. White pine filling in.
89	4133 - Aspen, Mixed Pine	Poletimber Well	17.6	60	Unspecified	Treat leaving smaller diameter oak. Buffer flooding on south
90	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	17.3	55	51-80	Similar to stand 101. Open areas through out stand Maple is Clumpy with multiple stems
91	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.5	85	81-110	Do an overstory removal of oak and pine. Regen well established
93	4130 - Aspen	Poletimber Well	4.7	27	Immature	
95	4130 - Aspen	Sawtimber Well	11.5	60	Unspecified	Kind of an edge stand along flooding also borders rye field.
97	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	46.6	60	1-50	Open savannah type stand
98	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.7	55	Unspecified	Wet.
99	4139 - Aspen, Mixed Deciduous	Poletimber Poor	8.3	45	Unspecified	Open scattered, kind of a retention stand left from adjoining recent cut.
101	4139 - Aspen, Mixed Deciduous	Poletimber Well	33.6	58	Unspecified	A lot of open areas Low quality timber.
102	4139 - Aspen, Mixed Deciduous	Sapling Well	52.6	6	Unspecified	Treated with sale #63-032-07-01 Came back thick to aspen and maple Some scattered saw log oak left.
103	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	65.8	7	1-50	Treated with sale #59-07 Solid buffer left along flooding.



Stand	Cover Type	Acres	Managed Site	General Comments:
11	3301 - Low Density Deciduous Tree	15.1	No	Still open but filling in with mostly white pine. Could be a wildlife opening with a little effort. Slight hill
13	3103 - Rubus-Fern	1.8	No	
14	6225 - Bog	2.0	No	
20	623 - Emergent Wetland	1.7	No	Creek running through, some cattails. Interesting to see cedar seedlings not browsed.
22	500 - Water	0.3	No	vernal pond
28	3303 - Mixed Low Density Trees	2.2	No	Grassy openings within an aspen stand, old turn around area from previous sale.
35	6239 - Mixed Emergent Wetland	7.6	No	Cannon creek/flooding
40	6220 - Alder/willow	23.1	No	
44	3303 - Mixed Low Density Trees	1.1	No	
53	6225 - Bog	2.0	No	Leather leaf hummocky
55	6220 - Alder/willow	2.2	No	
56	3103 - Rubus-Fern	2.7	No	Mostly bracken fern, some sweet fern. Could be a wildlife opening with some work.
59	3205 - Mixed Upland Shrub	21.0	No	Good candidate to make some wildlife openings. Easy access
64	3303 - Mixed Low Density Trees	29.7	No	Open area but starting to fill in with black cherry and oak
71	500 - Water	62.1	No	Cannons Flooding number 2.
78	6225 - Bog	1.6	No	Low area in middle of aspen stand
92	6220 - Alder/willow	22.9	No	Creek runs through
96	2113 - Forage Crops	2.4	Yes	Ruthann's rye field.



Stand	Cover Type	Acres	Managed Site	General Comments:
100	3105 - Mixed Upland Herbaceous	1.6	No	Old norwich dump. (abandoned)