



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63015

Entry Year 2019

Acreage: 2,288

County Lake

Management Area: Lake County Moraines

Revision Date: 07/06/2017

Stand Examiner: Ryan Adamczyk

Legal Description:

T19 R12W, Sections 25, 26, 35, 36

Identified Planning Goals:

Vegetation management in the Lake county Moraines management area will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the age class distributions of aspen and regenerating red pine and oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within this 10-year planning period are increased recreational pressure (including illegal off-road vehicle impacts) and the need to successfully regenerate and establish oak.

Soil and topography:

Generally rolling to hilly. The soils are Mostly Montcalm-Greycalm, and Rubicon sands.

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

State land around the compartment on all sides except the north where there is private ownership.

Unique Natural Features:

Eastern box turtle historically present in the area; extant records to W, SE, and SW. Eastern massasauga located just outside compartment in NE 1/4 of section 20; additional records to N. Wood turtle to S and SW and spotted turtle to W. Blanding's turtle to SW. Bald eagle to W and SW. Common loon to N and W. Historical great blue heron rookeries to N and NE. Great plains spittlebug to S and W. Historical Karner blue record to SW.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

Visual management techniques shall be followed where necessary with respect to the ORV trail and horse trail.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Featured wildlife species include deer, bear, ruffed grouse, woodcock, and turkey. Other species utilizing early-successional communities and young forests will benefit from management for these species. Management objective is to maintain diversity of cover types and age classes as well as maintain and/or enhance habitat including work on openings and edges for wildlife species. Retain soft and hard mast sources where applicable to preserve wildlife hunting and viewing opportunities. (A. Herban 6/07/17)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Mississippian Bayport Limestone and Pennsylvanian Saginaw Formation. The Bayport is quarried for limestone and the Saginaw for brick making clay in other areas of the State. A gravel pit is located in Section 27 and potential is good. The nearest oil and gas production is the one well abandoned Luther Field located two miles to the north. The Field produced over 28,000 BO from the Traverse Limestone. The compartment is not currently leased for oil and gas exploration.

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.

Survey Needs:

None

Recreational Facilities and Opportunities:

The Tin Cup ORV Route, and Tin Cup ORV single track motorcycle trail are located within this compartment. Policy and Procedure 32.22-01 (Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails).should be considered if forest treatments impact these motorized recreational trails. A horse trail used solely for an annual event permit is also located within this compartment. Hunters and trappers utilize this compartment. (T.M.N. 12/1/16).

Fire Protection:

Initial Attack for this compartment is from the Baldwin Office. This compartment has few roads, but terrain would allow for good access for equipment. There is a potential for fire growth, due to the lack of natural barriers.

Additional Compartment Information:

None

The following reports from the Inventory are attached:

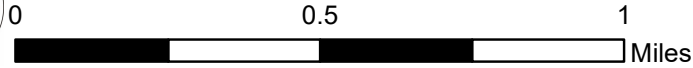
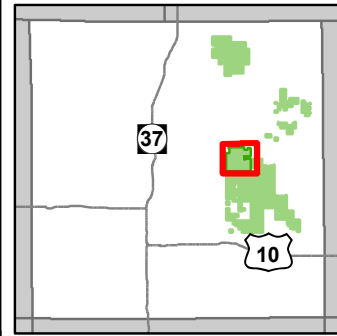
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

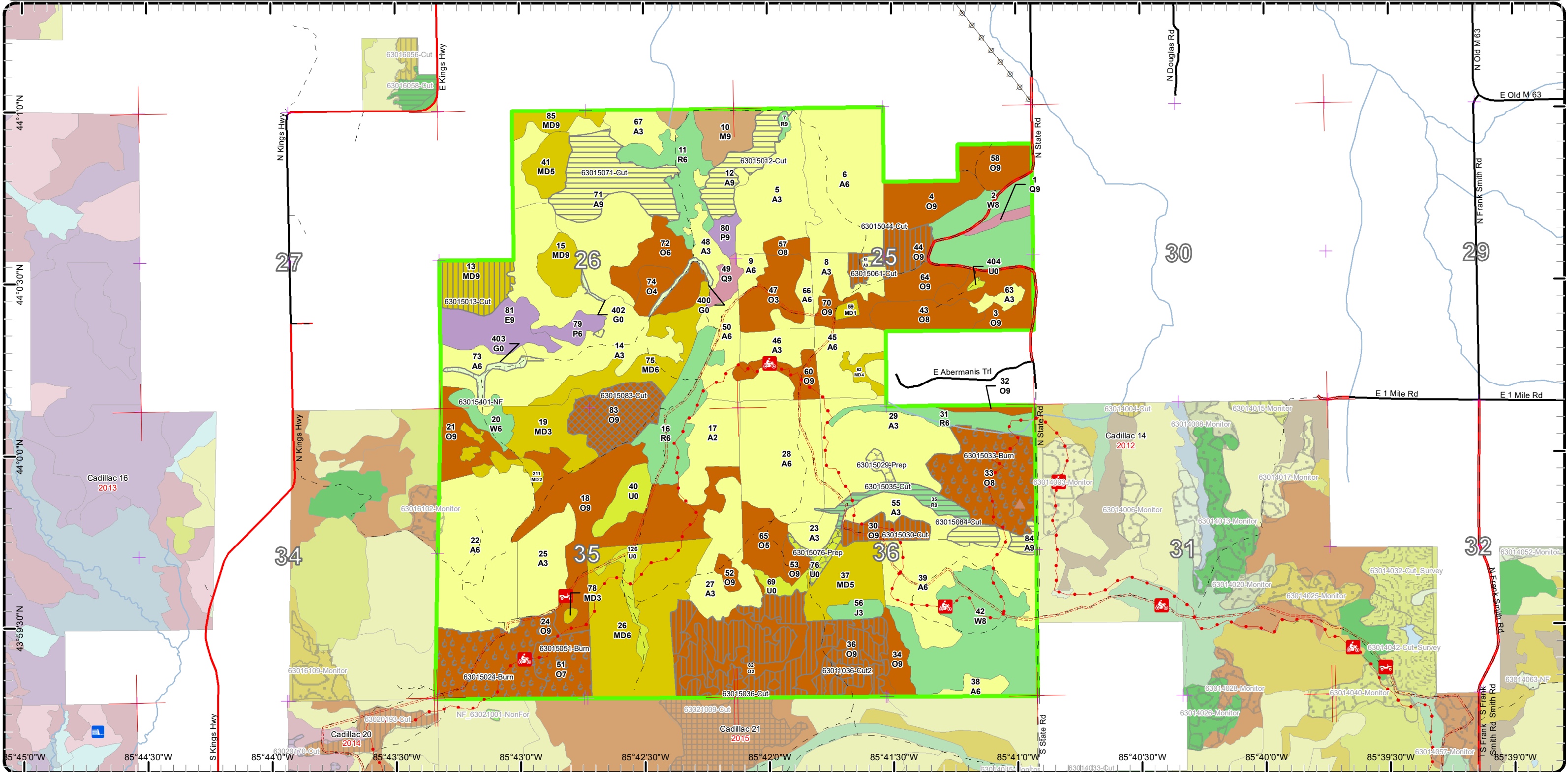
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 15
 T19N R12W Sec. 25,26,35,36
 County: Lake
 Unit: Cadillac
 Mgmt Area: Lake County
 Moraines
 YOE: 2019
 Acres: 2288 GIS Calculated
 Examiner: Ryan Adamczyk
 Map Revised: 7/14/2017
 Map Phase: Web-Post

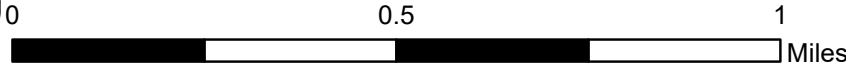
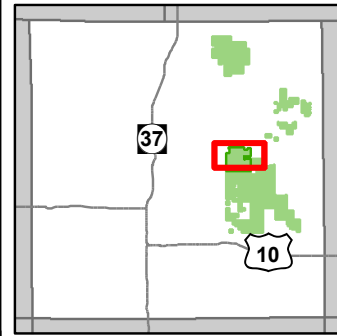


- Miris Corners
- + Remonumented Section Corners
- Counties
- Berms
- 🏍️ Motorcycle Trails (DNR License)
- 🚲 ORV Routes
- ORV License & Trail Permit
- Designated ORV Route
- County Paved Roads
- Paved Roads
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- - - Poor Dirt Roads
- Streams
- Powerline
- Compartment Boundary
- Site Prep
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- Opening Maintenance
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees

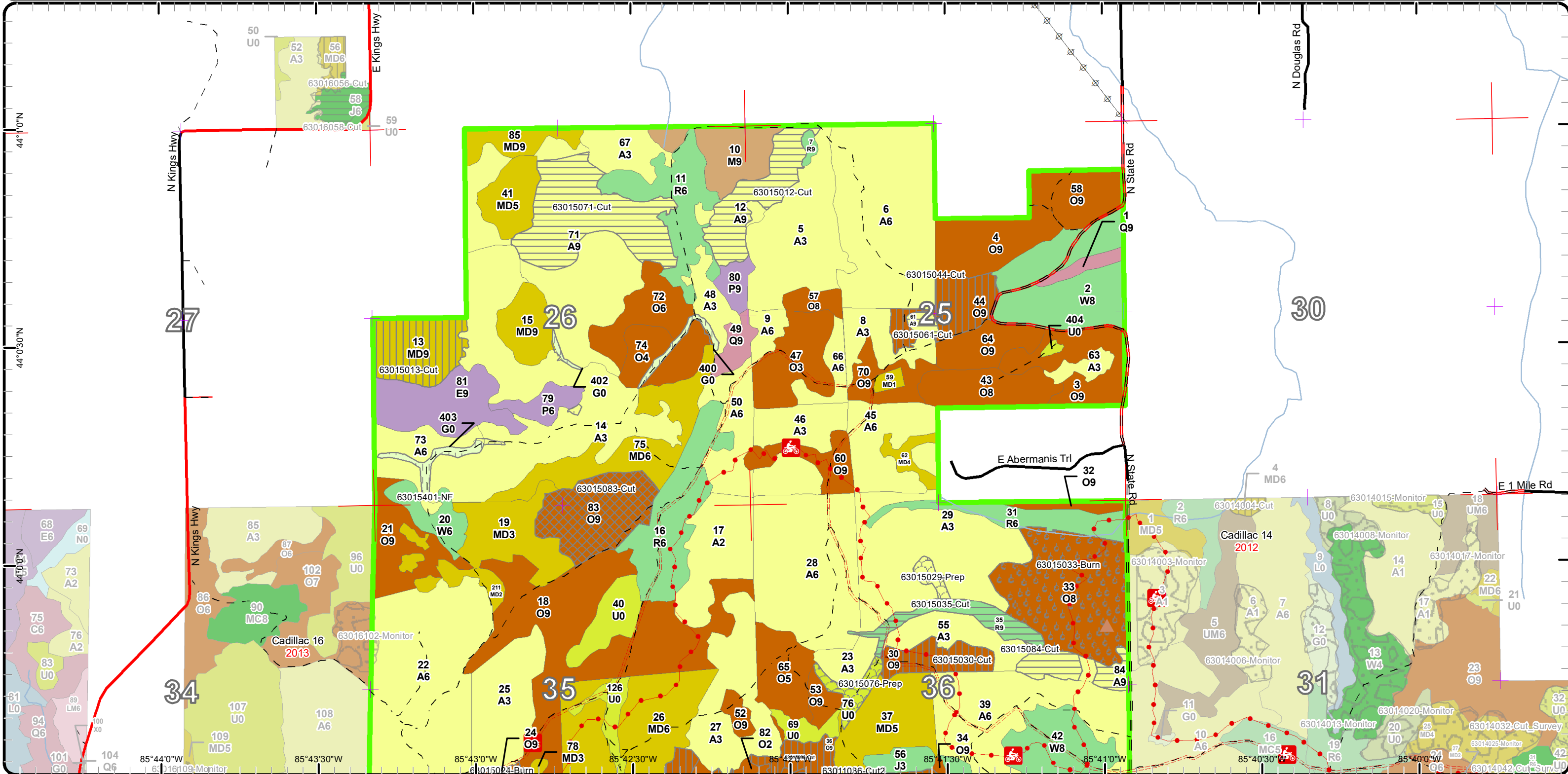


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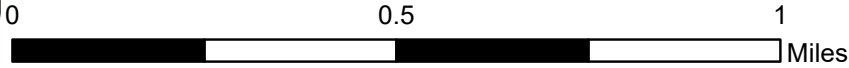


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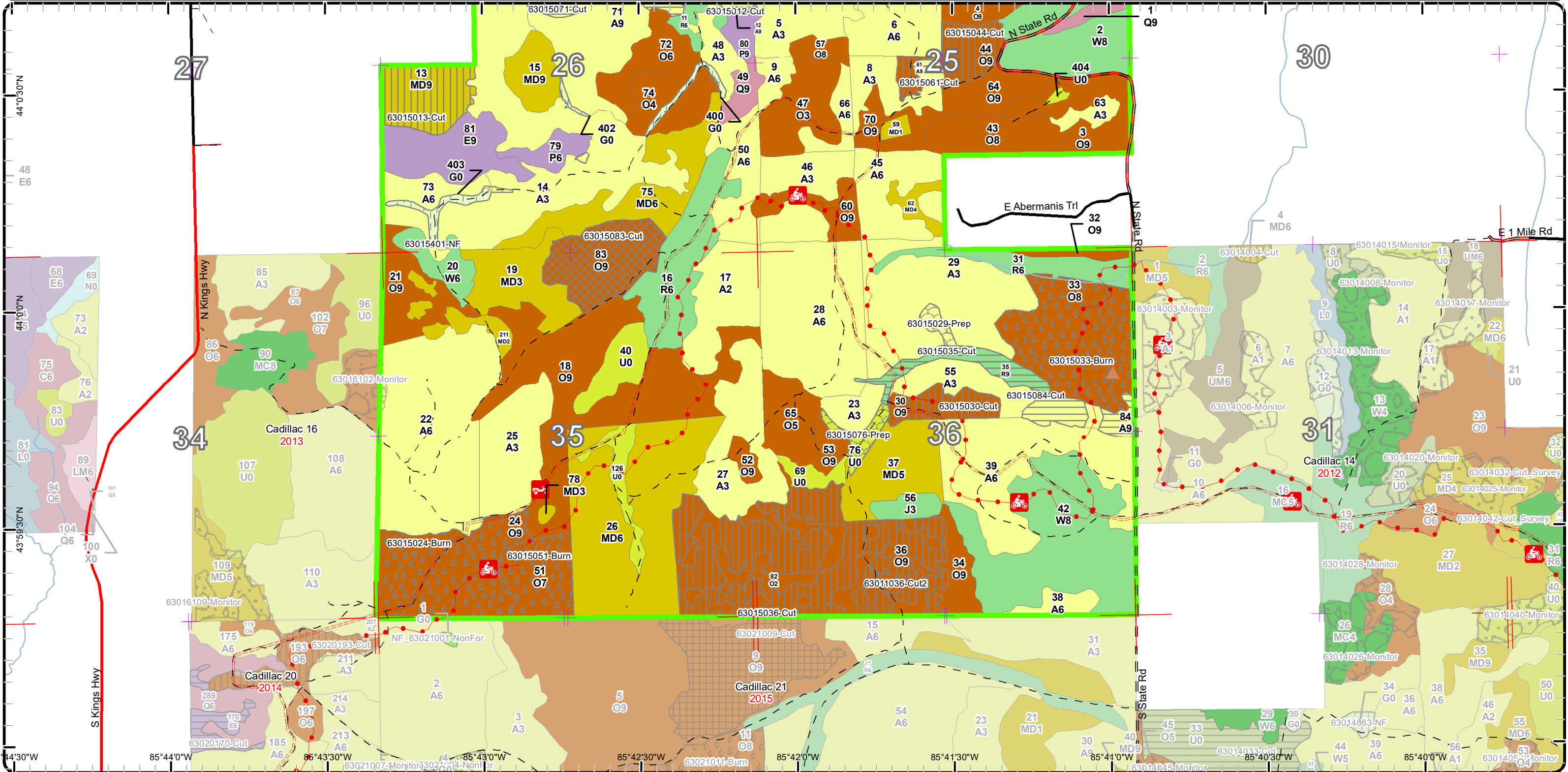


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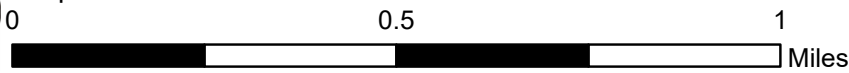
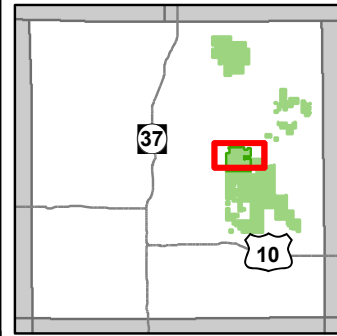


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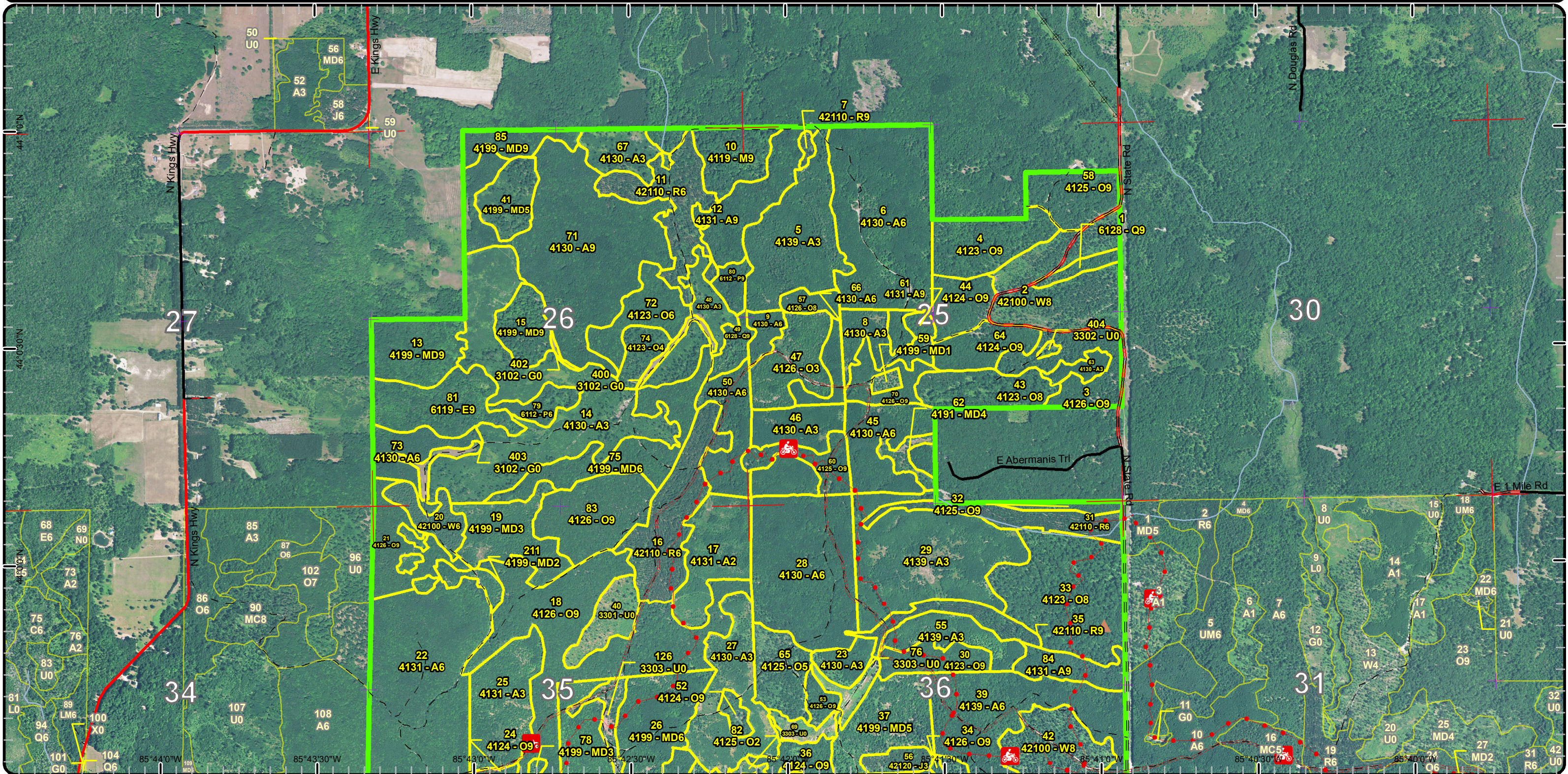


Stand Boundary Map

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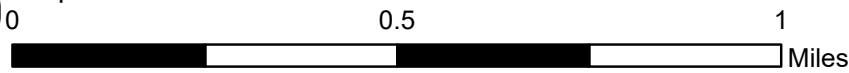
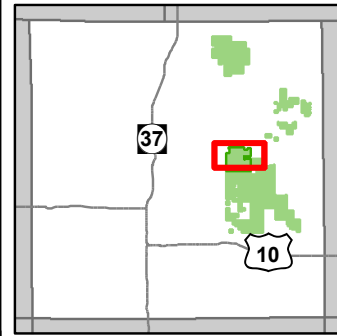


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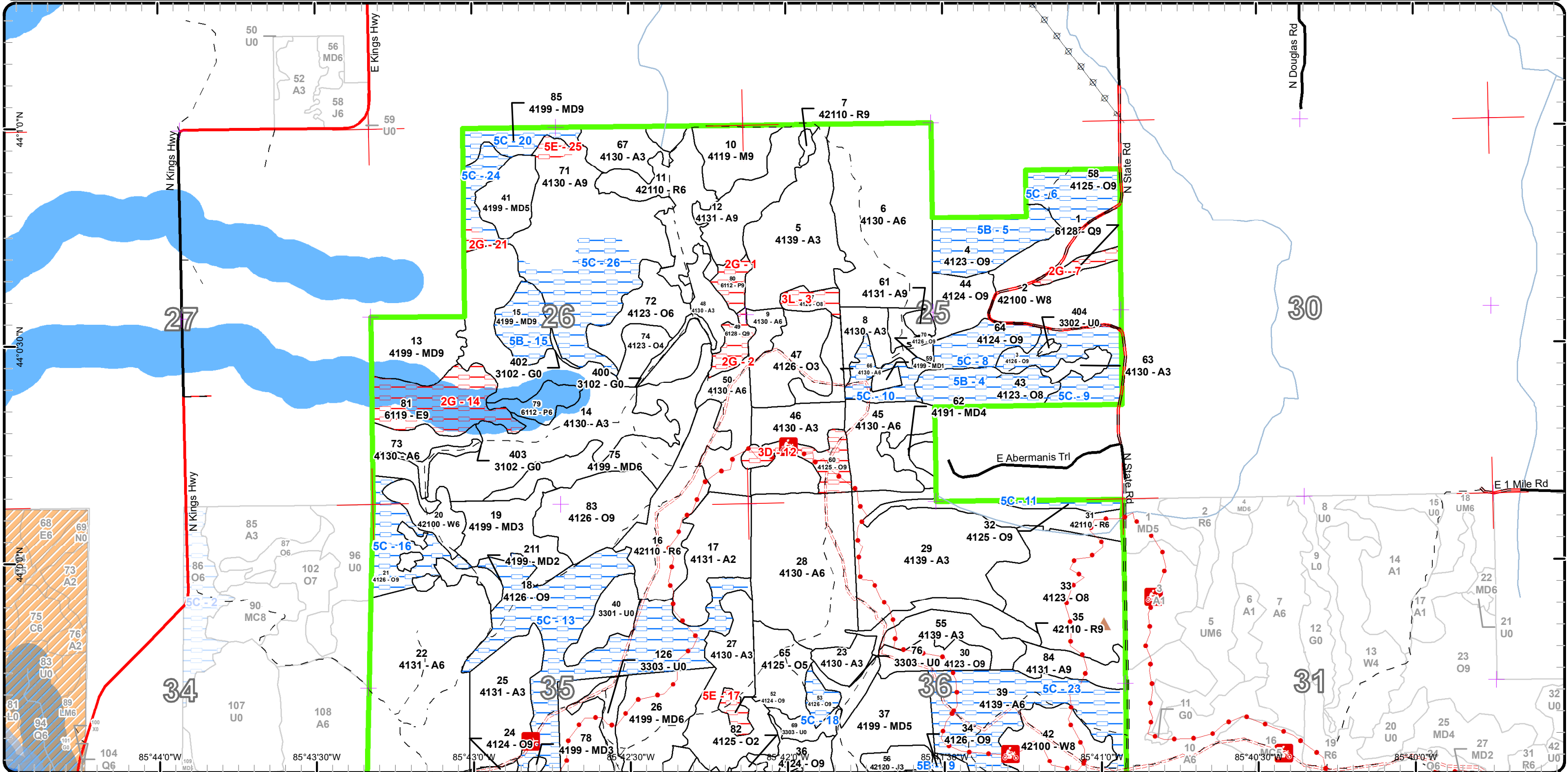


Special Conservation Areas & Site Conditions Map

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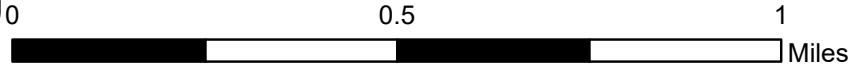
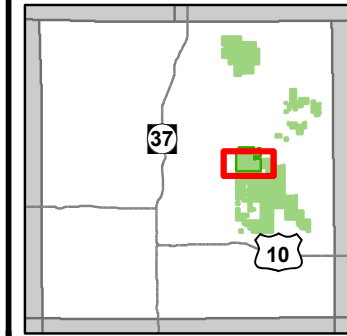


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Zoning District
- Eastern Massasauga Managed Land
- Cold Water Streams
- High Priority Trout Stream Buffer

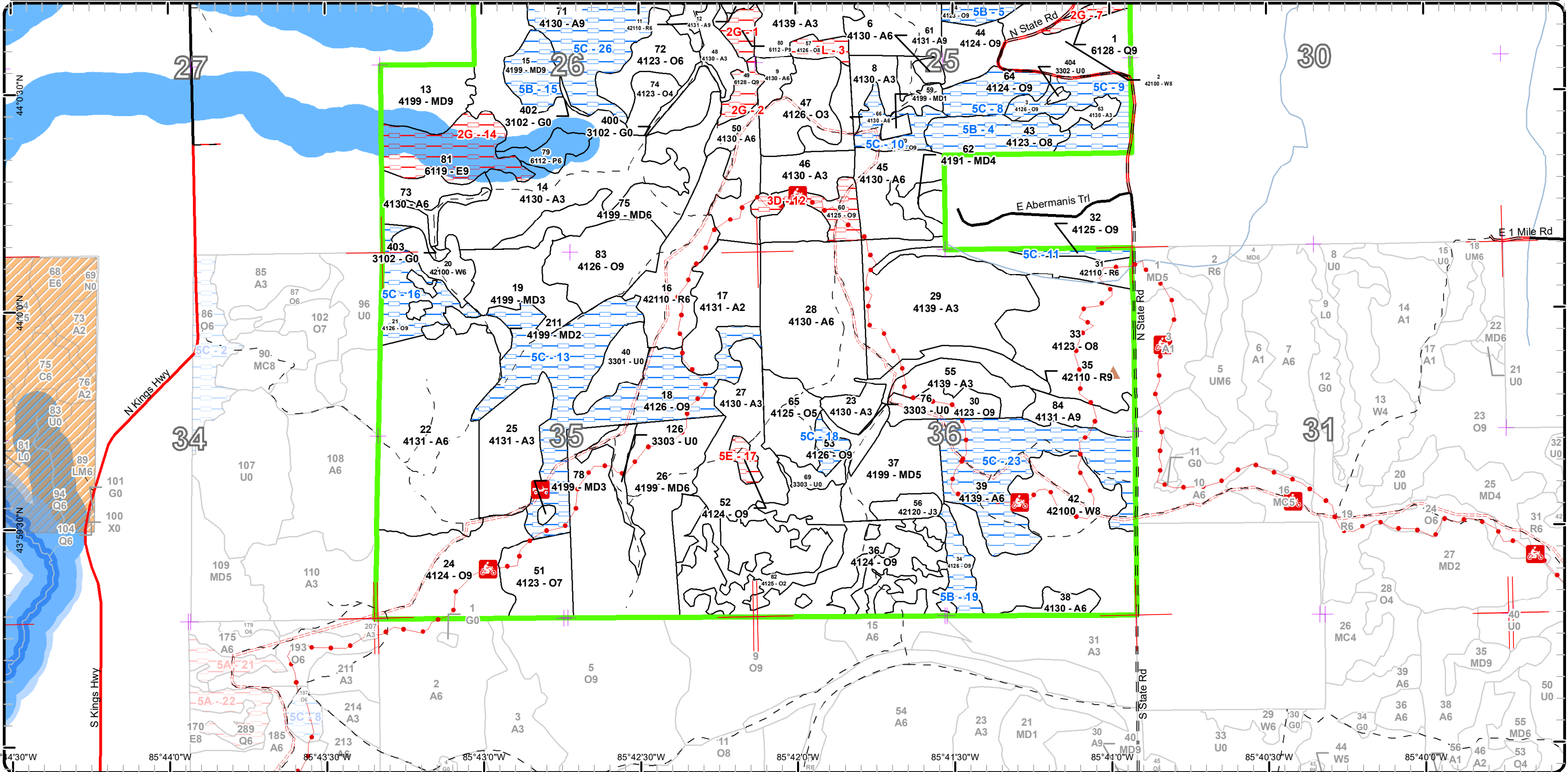


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Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 15

Year of Entry 2019

Ryan Adamczyk : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	947
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Low-Density Trees	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	270
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	698
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
Total	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	2289



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 15

Total Compartment Acres: 2,288

Commercial Harvest - 281
 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	86	0	0	0	0	0	0	0	0	86
Mixed Upland Deciduous	0	0	0	0	25	0	0	0	0	25
Oak	0	33	0	0	124	0	0	0	0	157
Red Pine	13	0	0	0	0	0	0	0	0	13
Total	99	33	0	0	149	0	0	0	0	281

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	281	9	0	0	138	0	10	0	9	448
Total	281	9	0	0	138	0	10	0	9	448



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
36	63011036- Cut2	20.9	4124 - Red with White Oak	Sawtimber Well	104	81-110	Harvest	Shelterwood	4124 - Red with White Oak	Two-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut the stand to 40-60 BA depending on quality, focusing retention on northern red oak. Do not cut any pine. Mark leave trees in pockets in order to											
<u>Specs:</u> maximize the amount of edge.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> oak sp., aspen, white pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
12	63015012-Cut	23.6	4131 - Aspen, Oak	Sawtimber Well	63	111- 140	Harvest	Clearcut with Retention	4119 - Mixed Northern Hardwoods	Two-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all aspen, beech, and red maple. Orange mark to cut trees around high quality red oak and sugar maple in order to release them. Orange mark											
<u>Specs:</u> any low quality non spec species. Mark red pine to 20 BA where applicable.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> aspen, sugar maple, red oak, beech											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/02/2019											
13	63015013-Cut	25.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	108	111- 140	Harvest	Shelterwood	411 - Northern Hardwood	Two-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut this stand to 80 BA focusing on releasing high quality desirable species. Keep a good buffer against the stream. Do not cut any hemlock. Cut											
<u>Specs:</u> during winter only to reduce the impact on moist soils. Mats will be needed to access this sale.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> red oak, sugar maple, beech, aspen, white oak, ash, basswood											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
24	63015024- Burn	54.9	4124 - Red with White Oak	Sawtimber Well	94	51-80	Burn	Understory	4124 - Red with White Oak	Two-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Burn this stand to kill off the maple and aspen sprouts and expose a good seed bed for oak regeneration.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> red oak, white oak, aspen, hybrid oak											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



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
29	63015029- Prep	3.2	4139 - Aspen, Mixed Deciduous	Sapling Well	16	Immatur e	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Trench old landing and plant to red pine along with stand 35.

Specs:

Next Step

Treatments:

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

30	63015030-Cut	13.4	4123 - Red Oak	Sawtimber Well	92	111- 140	Harvest	Shelterwood	4124 - Red with White Oak	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut this stand 40-60 ba focusing retention on quality northern red oak and white oak. Do not cut any pine. Burn post harvest to control maple sprouts.

Specs: Use orv spec and cycle spec.

Next Step

Treatments:

Acceptable oak sp, aspen

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

33	63015033- Burn	59.7	4123 - Red Oak	Sawtimber Medium	104	51-80	Burn	Understory	4129 - Mixed Oak	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Burn to kill off maple and aspen sprouts. Do not exclude areas with aspen regen. Burn the entire stand to promote oak regen.

Specs:

Next Step

Treatments:

Acceptable oak species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

35	63015035-Cut	13.0	42110 - Planted Red Pine	Sawtimber Well	60	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all species. Trench and re-plant to red pine along with stand 76. Use ORV and cycle trail spec.

Specs:

Next Step

Treatments:

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
36	63015036-Cut	71.1	4124 - Red with White Oak	Sawtimber Well	104	81-110	Harvest	Shelterwood	4124 - Red with White Oak	Two-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut the stand to 40-60 BA depending on quality, focusing retention on northern red oak. Mark a few pines throughout the stand for diversity. Mark
Specs: leave trees in pockets in order to maximize the amount of edge.

Next Step
Treatments:

Acceptable oak sp., aspen, white pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

44	63015044-Cut	18.8	4124 - Red with White Oak	Sawtimber Well	89	81-110	Harvest	Shelterwood	4124 - Red with White Oak	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut this stand to 50-60 BA with a high focus on retaining red oak. Do not cut any aspen. Do not cut red oak that is less than 8" DBH. Focus on cutting
Specs: hybrid oak and poor quality white oak. Burn post harvest to control maple sprouts.

Next Step
Treatments:

Acceptable oak sp., red maple, white pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

51	63015051-Burn	23.8	4123 - Red Oak	Sawtimber Poor	97	1-50	Burn	Understory	4124 - Red with White Oak	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Burn this stand to kill of maple and aspen sprouts to promote oak regeneration. Burn this stand with stand 24.
Specs:

Next Step
Treatments:

Acceptable oak sp., aspen, mixed pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

61	63015061-Cut	2.8	4131 - Aspen, Oak	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all species. Do not cut red or white oak greater than 14" DBH.
Specs:

Next Step
Treatments:

Acceptable aspen, red maple, oak sp.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



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
71	63015071-Cut	47.4	4130 - Aspen	Sawtimber Well	63	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all species. Do not cut sugar maple >8" DBH. Retention will be in the form of residual trees and the small area
Specs:

Next Step
Treatments:

Acceptable aspen, sugar maple, red oak, pine sp., beech
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

76	63015076-Prep	6.2	3303 - Mixed Low Density Trees	Nonstocked			SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Trench and plant to red pine. This stand was clearcut last yoe due to fire damage. Natural regen has failed.
Specs:

Next Step
Treatments:

Acceptable red pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

83	63015083-Cut	32.9	4126 - White, Black, N. Pin Oak	Sawtimber Well	97	81-110	Harvest	Single Tree Selection	4126 - White, Black, N. Pin Oak	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all aspen and red maple. Cut the oak to 30-40 BA focusing retention on white oak and the few red oaks that are present.
Specs:

Next Step
Treatments:

Acceptable oak sp., aspen, red maple, white pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

84	63015084-Cut	11.7	4131 - Aspen, Oak	Sawtimber Well	57	111-140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark a few high quality red/white oak to leave per acre. There will be a 100 Ft buffer along the cycle trail as retention. Cut in winter only.
Specs:

Next Step
Treatments:

Acceptable aspen, oak sp, white pine, red maple
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019



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
403	63015401-NF	9.1	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Maintain in open state. Brushing, tree cutting, as well as annual or rotational tillage and planting of forage species. May convert to perennial mix or
Specs: plant mast producing shrubs or trees. Treatment of invasive species as needed.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2008

**Total Treatment
Acreage Proposed: 437.6**

Report 4 – Site Conditions

Cadillac Mgt. Unit
Ryan Adamczyk : Examiner

Compartment: 15
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	2G	3D	3L	5E
		With Condition	Not Available							
947	829	113	5	Aspen		113	2			3
8	8	0	0	Herbaceous Openland						
7	7	0	0	Jack Pine						
37	37	0	0	Low-Density Trees						
14	8	0	6	Lowland Aspen/Balsam Poplar			6			
12	0	0	12	Lowland Conifers			12			
30	0	0	30	Lowland Deciduous			30			
270	228	26	16	Mixed Upland Deciduous	15	11	16			
22	22	0	0	Northern Hardwood						
697	418	256	23	Oak	59	198		13	6	4
103	103	0	0	Red Pine						
140	140	0	0	White Pine						
2,288	1,801	395	92	Total Forested Acres	73	322	66	13	6	8
	79%	17%	4%	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)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Ryan Adamczyk : Examiner

Compartment: 15
Year of Entry: 2019

3	Unavailable	3L: Other wildlife concerns	6	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit

Compartment: 15

Ryan Adamczyk : Examiner

Year of Entry: 2019

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3D: Recreational / Scenic values	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	94	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
 Ryan Adamczyk : Examiner

Compartment: 15
 Year of Entry: 2019

15	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
 Ryan Adamczyk : Examiner

Compartment: 15
 Year of Entry: 2019

21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	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 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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.8	110	81-110	This is a mixed conifer stand that has a seasonal creek running through it with lots of hemlock, white pine, cedar, and aspen.
2	42100 - Planted White Pine	Sawtimber Medium	46.8	45	51-80	Stand harvested by Miller Logging (Harrison, MI) as part of sale # 63-041-09-01 -- Ear Pierce Oak. All hardwoods were cut which allows for dense sprouting of aspen and maple in the southeast corner and along stand 1. Size and quality increase in the ESE portion.
3	4126 - White, Black, N. Pin Oak	Sawtimber Well	24.7	92	81-110	A heavy mix of oak and white pine overstory with maple coming up. The southern portion is better quality oak with less pine.
4	4123 - Red Oak	Sawtimber Well	26.5	92	51-80	Stand harvested by Miller Logging (Harrison, MI) as part of sale # 63-041-09-01 -- Ear Pierce Oak. Quality of red oak increases to the west. There's heavy browse on all oak regen and pockets of aspen/maple regen. There's also a low wetland with large white pine and hemlock in the southwest corner.
5	4139 - Aspen, Mixed Deciduous	Sapling Well	47.6	15	Immature	Stand treated as part of "Velvet Rack" sale # 63-055-99-01.
6	4130 - Aspen	Poletimber Well	79.8	28	Immature	Lots of good aspen regeneration. There are mixed pockets dominated mostly by oak and/or white pine. The white pine pockets are planted and vary in size 8"-16"
7	42110 - Planted Red Pine	Sawtimber Well	1.7	56	81-110	Stand was thinned last year of entry. Not much under story other than seedling red pine.
8	4130 - Aspen	Sapling Well	14.9	16	Immature	Stand treated as part of "Opening Day Aspen" sale # 63-063-99-01.
9	4130 - Aspen	Poletimber Well	6.3	26	81-110	
10	4119 - Mixed Northern Hardwoods	Sawtimber Well	22.2	108	81-110	Small marsh towards middle - south side. Stand treated as part of "Luther's Mix" sale # 63-111-01-01. THINNED BY MARKING TO REMOVE.
11	42110 - Planted Red Pine	Poletimber Well	31.2	57	81-110	Stand was 1/3 rd row thinned last yoe.
12	4131 - Aspen, Oak	Sawtimber Well	26.3	63	111-140	Cut all aspen, beech, and red maple. Orange mark to cut trees around high quality red oak and sugar maple in order to release them. Orange mark any low quality non spec species. Mark red pine to 20 BA where applicable.
13	4199 - Other Mixed Upland Deciduous	Sawtimber Well	25.1	108	111-140	Quality increases as you go north. Intermittent stream present. Variety of Northern Hardwood species. This stand should be thinned to 80 ba. Keep a good buffer area around the intermittent stream. Retention will be included in the 80 SF as single trees. The retention will be a mix of the species present in this stand. Site access may be an issue.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	4130 - Aspen	Sapling Well	94.3	4	Immature	Stand was cut as part of "Hidden Hardwoods" #63-042-09-01
15	4199 - Other Mixed Upland Deciduous	Sawtimber Well	14.6	90	51-80	Stand was cut as part of "Hidden Hardwoods" #042-09-01
16	42110 - Planted Red Pine	Poletimber Well	38.3	57	81-110	
17	4131 - Aspen, Oak	Sapling Medium	29.9	16	Immature	Stand treated as part of "Re-Route Aspen" sale # 63-044-99-01. This stand was clearcut to expand aspen clones on the area and potentially obtain some oak sprouting as well.
18	4126 - White, Black, N. Pin Oak	Sawtimber Well	93.5	97	81-110	Break this stand up and cut out areas 30-40 ba focusing retention on white oak.
19	4199 - Other Mixed Upland Deciduous	Sapling Well	27.3	16	Immature	Stand treated as part of "Buck Snort Hardwood" sale # 63-057-99-01.
20	42100 - Planted White Pine	Poletimber Well	11.6	44	111-140	Stand treated as part of "Horse Trail Release" sale # 63-056-99-02. All species were cut besides white pine to encourage growth.
21	4126 - White, Black, N. Pin Oak	Sawtimber Well	21.3	87	81-110	Hold for age class diversity
22	4131 - Aspen, Oak	Poletimber Well	93.8	42	111-140	A nice aspen stand with a good mix of red/white/hybrid oak. There are a handful of oak dominated pockets throughout the stand. The horse trail runs through this stand. Stand Year Origin was 1975
23	4130 - Aspen	Sapling Well	8.7	16	Immature	Stand treated 2001 "Godzilla Aspen" sale # 63-043-99-01. Well stocked with aspen, maple, and oak. There are a few mature oaks that were left as part of retention.
24	4124 - Red with White Oak	Sawtimber Well	54.9	94	51-80	This stand is quality red oak and white oak as well as some hybrid black. Red maple and aspen was removed 10 Years ago which is out competing all other species. A burn should help this and the neighboring stand.
25	4131 - Aspen, Oak	Sapling Well	33.7	16	Immature	Stand treated as part of "Buck Snort Hardwood" sale # 63-057-99-01.
26	4199 - Other Mixed Upland Deciduous	Poletimber Well	92.1	28	Immature	There are large areas of oak dominated portions as well as large areas of aspen clones. Possibly consider breaking this stand into multiple stands.
27	4130 - Aspen	Sapling Well	37.5	16	Immature	Stand treated 2001 "Godzilla Aspen" sale # 63-043-99-01. Well stocked with aspen, maple, and oak. There are a few mature oaks that were left as part of retention.
28	4130 - Aspen	Poletimber Well	67.5	39	141-170	A nice aspen stand with mixed oak. Hold until next year of entry if possible. Southern portion was ravaged by fire.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4139 - Aspen, Mixed Deciduous	Sapling Well	69.8	16	Immature	Stand treated 2001 sale "Godzilla Aspen" sale # 63-043-99-01. Well stocked with aspen, maple, and oak. A few scattered mature red pine and white pine throughout. Possibly trench old landings and plant to red pine. There is retention on this stand along the orv and cycle trails in the form of mature oaks.
30	4123 - Red Oak	Sawtimber Well	13.4	92	111-140	Cut this stand 40-60 ba focusing retention on quality northern red oak and white oak. Do not cut any pine. Burn post harvest to control maple sprouts. Use orv spec and cycle spec.
31	42110 - Planted Red Pine	Poletimber Well	18.5	60	111-140	1/3 Rd row thinned last yoe.
32	4125 - Black, N. Pin Oak	Sawtimber Well	4.9	87	81-110	Thick pole sized white pine understory in the east portion. Possibly cut to 20-30 ba.
33	4123 - Red Oak	Sawtimber Medium	59.7	104	51-80	Stand treated as part of "Yellow Hankie Oak" sale # 63-058-99-01. Was an attempt at a shelterwood but seems to be more Red maple then Oak. Burn this stand.
34	4126 - White, Black, N. Pin Oak	Sawtimber Well	10.6	104	1-50	Stand was cut ~40 years ago leaving an overstory of mature oak and white pine. It's coming back to mostly oak with maple and aspen mixed in.
35	42110 - Planted Red Pine	Sawtimber Well	13.0	60	141-170	Clearcut this stand. Trench and replant along with stand 76. This is a good site for red pine.
36	4124 - Red with White Oak	Sawtimber Well	92.4	104	81-110	There's higher quality red oak in the Easton 1/3rd. Leave a higher ba here. Cut the stand to 40-60 ba depending on quality, focusing retention on northern red oak. Do not cut any pine east of the forest road. Mark a few throughout the rest of the stand for diversity. The surrounding patch cuts responded well and have lots of good oak regeneration. Stand treated as part of "Rosco Oak" sale # 63-077-99-01.
37	4199 - Other Mixed Upland Deciduous	Poletimber Medium	30.4	28	Immature	A good mix of aspen, maple, and oak with scattered mature white pine.
38	4130 - Aspen	Poletimber Well	7.2	37	111-140	Stand Year Origin was 1980
39	4139 - Aspen, Mixed Deciduous	Poletimber Well	64.5	37	111-140	Aspen mixed with pockets of hardwoods. There are a couple small pockets of planted red/white pine here, <2 acres. Good species diversity and size classes here.
41	4199 - Other Mixed Upland Deciduous	Poletimber Medium	15.7	47	1-50	Stand was cut as part of "Hidden Hardwoods" #042-09-. Most of the oak and maple are in the northern section where there is steep topography.
42	42100 - Planted White Pine	Sawtimber Medium	81.8	47	51-80	Stand treated timber sale #63-012-09-01, "C15 State Pine". There's higher quality and size class of white pine located centrally, >16" dbh. There's also good pockets of aspen regeneration and lots of scattered oak saplings. Remove half of white pine overstory next year of entry.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4123 - Red Oak	Sawtimber Medium	21.7	92	51-80	7/6/12 Update: Stand harvested by Miller Logging (Harrison, MI) as part of sale # 63-041-09-01 (Ear Pierce Oak). This stand has a low wetland running down the middle comprising of hemlock, red oak, red maple, cattail, and a few red pine. There's a much heavier mixture of white pine in the understory in the western quarter of the stand where size and quality diminish.
44	4124 - Red with White Oak	Sawtimber Well	18.8	89	81-110	High quality red oak is dominant throughout the stand with a mix of large single tree aspen, and smaller dbh hybrid/white oaks. Possibly cut 40-60 removing all hybrid oak. Treat northern section only. Southern part is lesser ba, bigger dbh, more red maple in over story, no hybrid, few whites
45	4130 - Aspen	Poletimber Well	29.2	26	81-110	A fully stocked aspen stand with good oak regen in pockets. Stand Year Origin was 1991
46	4130 - Aspen	Sapling Well	26.1	16	Immature	A fully stocked young aspen stand. Stand was treated in winter of 2000-2001 as part of "Re-Route Aspen" sale # 63-044-99-01.
47	4126 - White, Black, N. Pin Oak	Sapling Well	24.7	26	Immature	Very good white/hybrid oak regeneration. There's a couple pockets of aspen with a few scattered mature white pine throughout.
48	4130 - Aspen	Sapling Well	10.0	4	Immature	Stand was cut as part of "Hidden Hardwoods" #042-09-01
49	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	6.7	110	111-140	Mixed swamp conifers. Wet area.
50	4130 - Aspen	Poletimber Well	21.8	46	111-140	Stand Year Origin was 1971
51	4123 - Red Oak	Sawtimber Poor	23.8	97	1-50	Stand treated as part of "Leaning Oak Aspen" sale # 63-045-99-01. Lots of red maple stump sprouts. Oak regeneration is being heavily browsed by deer. Burn this stand to knock back maple.
52	4124 - Red with White Oak	Sawtimber Well	4.2	104	81-110	Retention area for stand 27.
53	4126 - White, Black, N. Pin Oak	Sawtimber Well	5.4	104	111-140	Maintain for wildlife and diversity. Oak mast area.
55	4139 - Aspen, Mixed Deciduous	Sapling Well	17.5	16	Immature	Stand treated 2001 "Godzilla Aspen" sale # 63-043-99-01. Well stocked with aspen, maple, and oak. More maple than the stand to the north.
56	42120 - Planted Jack Pine	Sapling Well	6.7	16	Immature	Ftp#63484 trenched then hand planted. 12,000 2-0 jack pine bare root seedlings were planted in 2001. This stand is maturing well.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	4126 - White, Black, N. Pin Oak	Sawtimber Medium	5.6	85	111-140	There's mature white pine along the southern edge as well as a dense group of red pine saplings concentrated in the middle of the stand. This stand should be held for a wildlife corridor, biodiversity, and a good seed source.
58	4125 - Black, N. Pin Oak	Sawtimber Well	19.9	89	51-80	Lower quality mixed oak with scattered aspen, white, pine, and beech brush. There's a hemlock cedar lowland in the northwest corner < 1 acre.
59	4199 - Other Mixed Upland Deciduous	Sapling Poor	2.4	16	Immature	Stand treated as part of "Opening Day Aspen" sale # 63-063-99-01. Stand was clearcut to promote oak regen. Lots of maple stump sprouts.
60	4125 - Black, N. Pin Oak	Sawtimber Well	13.1	97	81-110	The ORV trail runs through this stand. Also, the cycle trail was re-routed through this stand after cutting both of the adjacent aspen stands. The stand is mostly low quality oak with some scattered red oak that are higher quality. There is an abundance of aspen regen occurring in the NE corner, possibly clones from the cut made in stand 45.
61	4131 - Aspen, Oak	Sawtimber Well	2.8	89	81-110	A nice stand with large aspen mixed with red/white/hybrid oak and red maple coming up in the under story. Cut all trees. Do not cut red or white oak >14 dbh.
62	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	5.8	26	Immature	SITE TREATED 2001 T-SALE # 63-99-01
63	4130 - Aspen	Sapling Well	5.2	16	Immature	Mostly aspen mixed with some red maple and a few mature white pine. SITE TREATED 2001 T-SALE # 63-99-01
64	4124 - Red with White Oak	Sawtimber Well	15.8	89	111-140	Hold for size class and diversity. The horse trail runs through this stand.
65	4125 - Black, N. Pin Oak	Poletimber Medium	19.1	39	51-80	This stand was hit by a wildfire a few years ago and it killed most of the red maple and aspen. The oak seems to be holding well. There's a small pocket of planted white pine along the southern edge, <1 acre.
66	4130 - Aspen	Poletimber Well	8.2	26	81-110	A well stock young aspen stand
67	4130 - Aspen	Sapling Well	14.3	4	Immature	Stand was cut as part of "Hidden Hardwoods" #63-042-09-01
70	4126 - White, Black, N. Pin Oak	Sawtimber Well	12.0	89	111-140	The orv route runs through this stand. Lower quality and size compared to the adjacent oak stand. Lower quality mixed oak.
71	4130 - Aspen	Sawtimber Well	101.5	63	141-170	Stand Year Origin was 1970
72	4123 - Red Oak	Poletimber Well	19.5	47	51-80	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	4130 - Aspen	Poletimber Well	15.6	47	81-110	A nice mature aspen stand that borders stand 14 which was clearcut last yoe. There's a small red pine plantation mixed in the southeast corner. Hold to cut if possible. Stand Year Origin was 1970
74	4123 - Red Oak	Poletimber Poor	18.5	63	1-50	Cut as par of "Hidden Hardwoods". All species were cut besides oak.
75	4199 - Other Mixed Upland Deciduous	Poletimber Well	34.5	47	51-80	Theres a heavier concentration of aspen in the eastern portion.
78	4199 - Other Mixed Upland Deciduous	Sapling Well	1.1	16	Immature	Stand treated as part of "Leaning Oak Aspen" sale # 63-045-99-01.
79	6112 - Lowland Aspen	Poletimber Well	8.3	47	111-140	A lowland stand within stand 14 that was left as retention due to a small stream running through it. Mostly mature aspen.
80	6112 - Lowland Aspen	Sawtimber Well	6.1	63	111-140	Cut all aspen, beech, and red maple. Orange mark to cut trees around high quality red oak and sugar maple in order to release them. Orange mark any low quality non spec species. Mark red pine to 20 BA where applicable.
81	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	30.5	108	81-110	Lowland hardwood stand with nice trees. Too wet to harvest.
82	4125 - Black, N. Pin Oak	Sapling Medium	40.7	15	Immature	Patch cuts from 2002, a mix of oak and red maple regen with a few aspen clones
83	4126 - White, Black, N. Pin Oak	Sawtimber Well	32.9	97	81-110	Broke this stand off of 18. Cut to 30-40 ba focusing retention on white oak. Cut all aspen and red maple. Burn this stand post harvest to promote oak regeneration.
84	4131 - Aspen, Oak	Sawtimber Well	13.3	57	111-140	Mark a few high quality red/white oak to leave per acre. There will be a 100 Ft buffer along the cycle trail as retention. Cut in winter only.
85	4199 - Other Mixed Upland Deciduous	Sawtimber Well	11.2	63	111-140	Stand Year Origin was 1970
211	4199 - Other Mixed Upland Deciduous	Sapling Medium	9.8	15	Immature	Stand treated as part of "Open-Up HDWD" sale # 63-078-01-01. Pockets that were clearcut are coming back to aspen, oak, red maple.



Stand	Cover Type	Acres	Managed Site	General Comments:
40	3301 - Low Density Deciduous Trees	13.9		Stand harvested by Miller Logging (harrison, MI) as part of sale # 63-041-09-01 (Ear Pierce Oak). Oak was retained at ~10 BA.
69	3303 - Mixed Low Density Trees	5.6		This red pine was clearcut last yoe. It has good oak regen coming up and should be managed as an oak stand now.
76	3303 - Mixed Low Density Trees	6.2		This red pine was clearcut last yoe and needs to be trenched and replanted along with stand 35. Leave the western side as it has good oak regent throughout.
126	3303 - Mixed Low Density Trees	10.2	No	A long opening through stand 26 with a low stocking of mixed oak, black cherry, and mixed pine.
400	3102 - Grass	2.7	No	Maintained Wildlife grass opening.
402	3102 - Grass	0.7	No	This stand appears to be a wildlife opening but its unkown if its currently managed due to access issues. Road work through stand 14 would be needed, including brush clearing and possible dozer work through a wet area.
403	3102 - Grass	4.5	No	Maintained Wildlife grass opening.
404	3302 - Low Density Conifer Trees	1.0	No	A small opening with scattered white pine and cherry. Possibly used as a hunt camp.