



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63013

Entry Year 2019

Acreage: 3,043

County Lake

Management Area: Lake County Outwash

Revision Date: 07/07/2017

Stand Examiner: Cheryl Nelson

Legal Description:

T19N R12W Section 18, 19, 30

T19N R13W Section 13, 14, 23, 24

Identified Planning Goals:

Vegetation management in the Lake County Outwash 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 harvesting older jack pine and balancing the age-class distribution of aspen. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation; maintaining soft and hard mast sources including oak; and preserving related recreational opportunity.

Soil and topography:

Grayling and Graycalm sands. Rolling hills to flat plains.

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

Mostly contiguous blocks of state ownership with intermingled private and recreational lands.

Unique Natural Features:

The Michigan Natural Features Inventory lists the Eastern Massasagua rattlesnake as having occurred in this compartment. The Bald Eagle, Wood Turtle, Loon, Karner Blue Butterfly, Great Plains Spittlebug, and Great Heron Rookery, Hill's Thistle, Northern wet-mesic prairie, dry sand prairie and pine barrens are listed as having occurred in sections surrounding this compartment. This compartment has the potential for the Wood Turtle, Goshawk, E. Massasagua Rattlesnake, and E. Box Turtle.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

Travel influence zone will be honored along M-37. Visual management techniques will be used where necessary. The integrity of Twin Creeks and the Little Manistee River will be maintained.

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

Featured wildlife species include deer, bear, ruffed grouse, woodcock, turkey, and american martin. 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

There is currently no known metallic mineral potential in this part of the state. No sand/gravel pits are located in the area, but there appears to be some sand and gravel potential within the compartment. The nearest oil and gas production is the Peacock Field, located two miles to the west. All but one of the 30 oil wells has been plugged and abandoned. There is currently no leasing activity within one mile of the compartment and oil and gas potential is considered low at this time.

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 Little Manistee ORV Route, Little Manistee Single Track Motorcycle Trail, Michigan Cross Country Cycle Trail (MCCCT), and Snowmobile Trails # 362 & #344W 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. (T.M.N. 12/1/16).

Fire Protection:

The fuel types of jack pine, red pine, and oak in this compartment would allow for rapid and large fire growth. Access would be fairly good. There is also some urban interface within the compartment. Fire response would be from the Baldwin Field Office, but with the potential for large fires in this area on high fire days, responses from neighboring field offices may be likely.

Additional Compartment Information:

The following reports from the Inventory are attached:

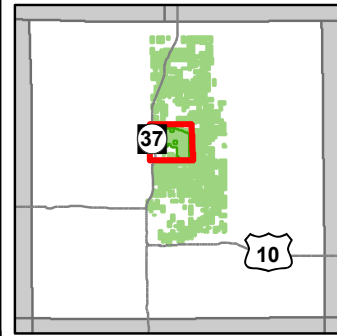
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

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

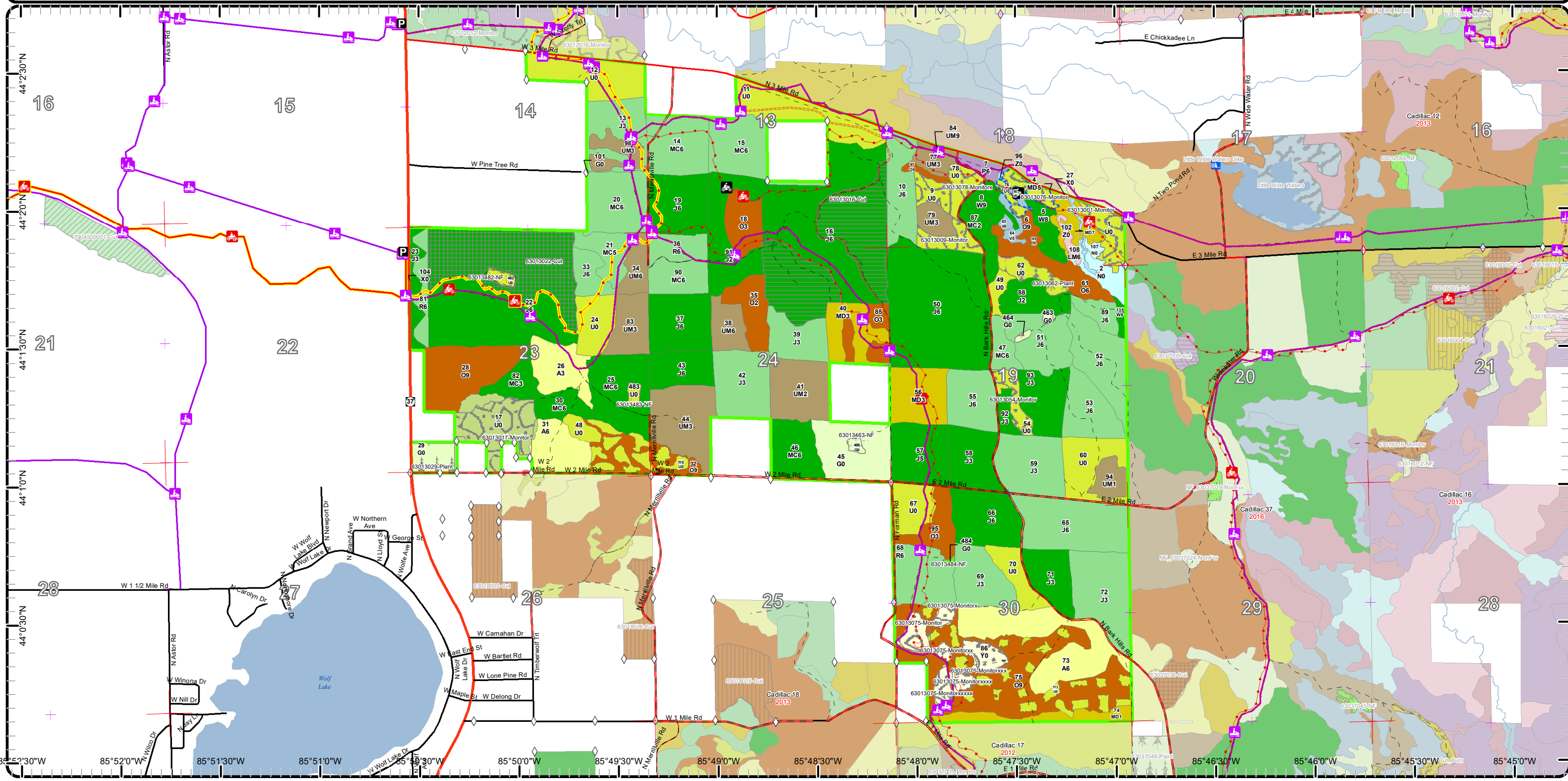
Cover Type & Treatments Map

Compartment: 13
 T19N R12W Sec. 18,19,30
 T19N R13W Sec. 13,14,23,24
 County: Lake
 Unit: Cadillac
 Mgmt Area: Lake County
 Outwash
 YOE: 2019
 Acres: 3043 GIS Calculated
 Examiner: Cheryl Nelson
 Map Revised: 7/14/2017
 Map Phase: Web Post



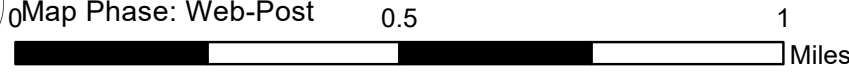
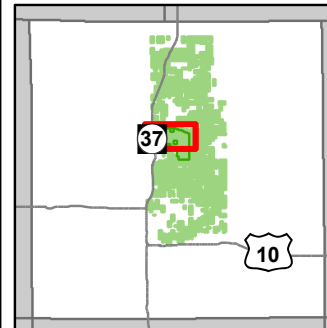
1 Miles
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- Miris Corners
- Remonumented Section Corners
- ◇ Field Grade GPS Corners
- ▭ Counties
- P Parking Lot
- 🏍 Motorcycle Trails (DNR License)
- 🏍 MCCCT Trails
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- Streams
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- ▭ Clearcut (w/Reserves)
- ▭ Planting (tree species)
- ▭ Other Treatment - See Comments
- ▭ Opening Maintenance
- ▭ Regeneration Survey
- ▭ Seed Tree (w/Reserves)
- ▭ 412 - Oak Types
- ▭ 413 - Aspen Types
- ▭ 419 - Mixed Upland Deciduous
- ▭ 421 - Planted Pines
- ▭ 422 - Natural Pines
- ▭ 430 - Upland Mixed Forest
- ▭ 611 - Lowland Deciduous Forest
- ▭ 613 - Lowland Mixed Forest
- ▭ 122 - Roads/Parking Lot
- ▭ 211 - Cropland
- ▭ 310 - Herbaceous Openland
- ▭ 320 - Upland Shrub
- ▭ 330 - Low Density Trees
- ▭ 500 - Water
- ▭ 622 - Lowland Shrub
- ▭ 623 - Emergent Wetland
- ▭ 710 - Sand/Soil
- ▭ Lakes

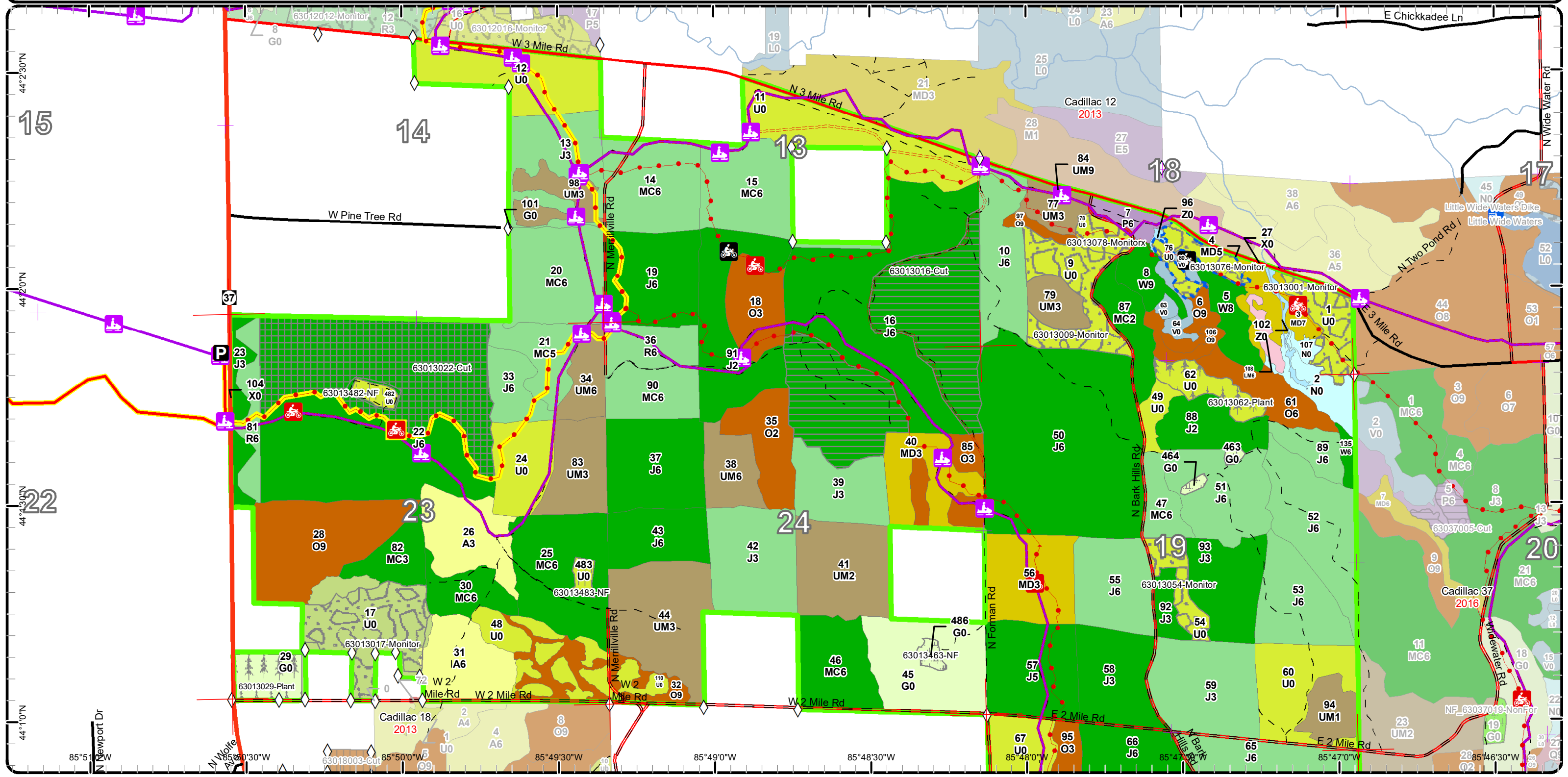


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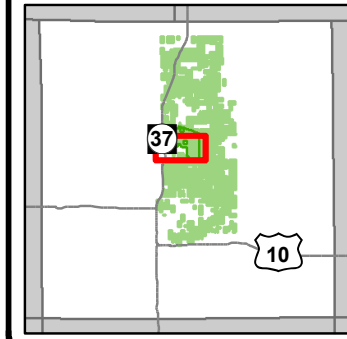


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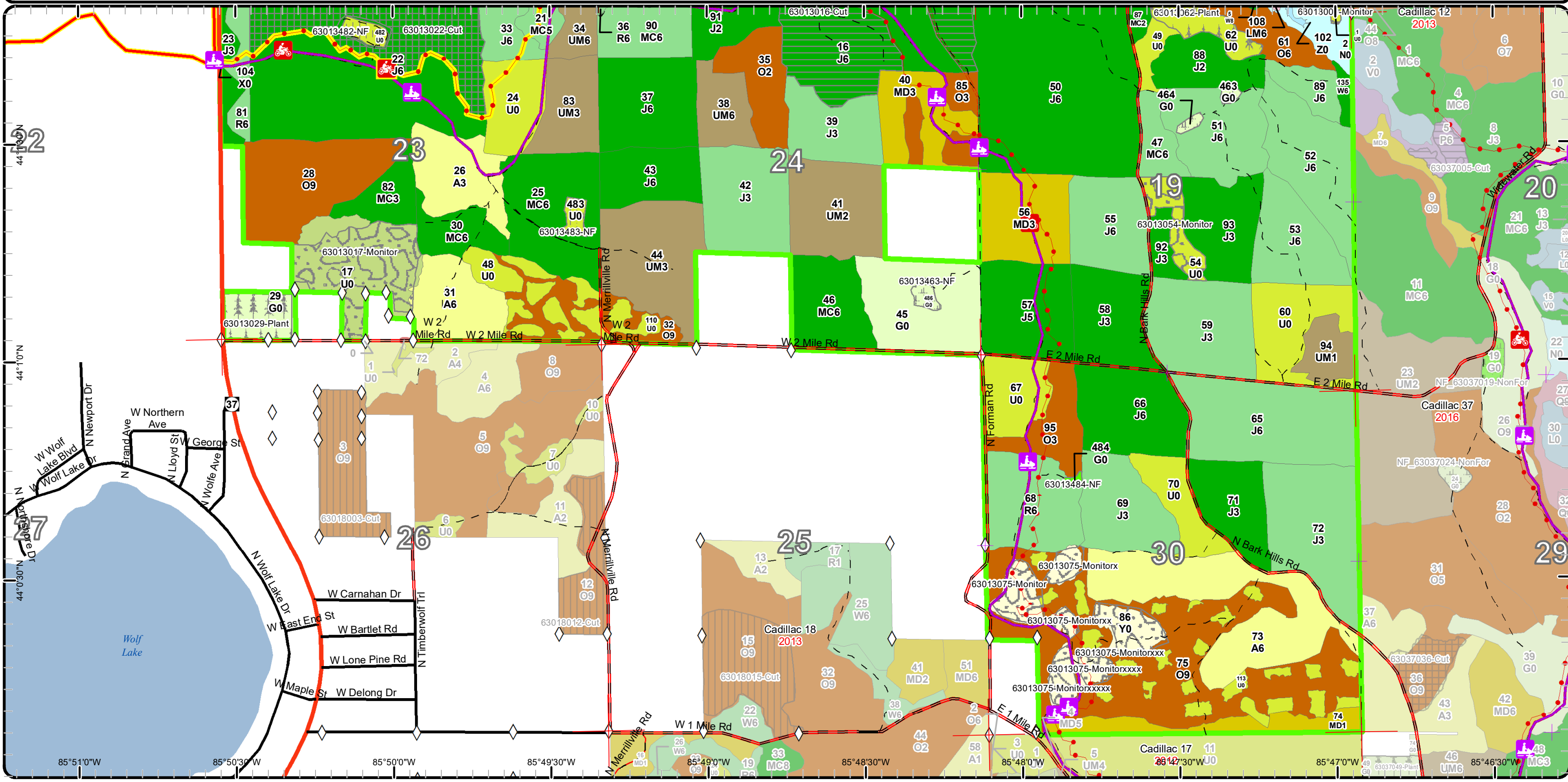


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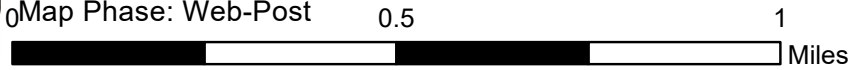
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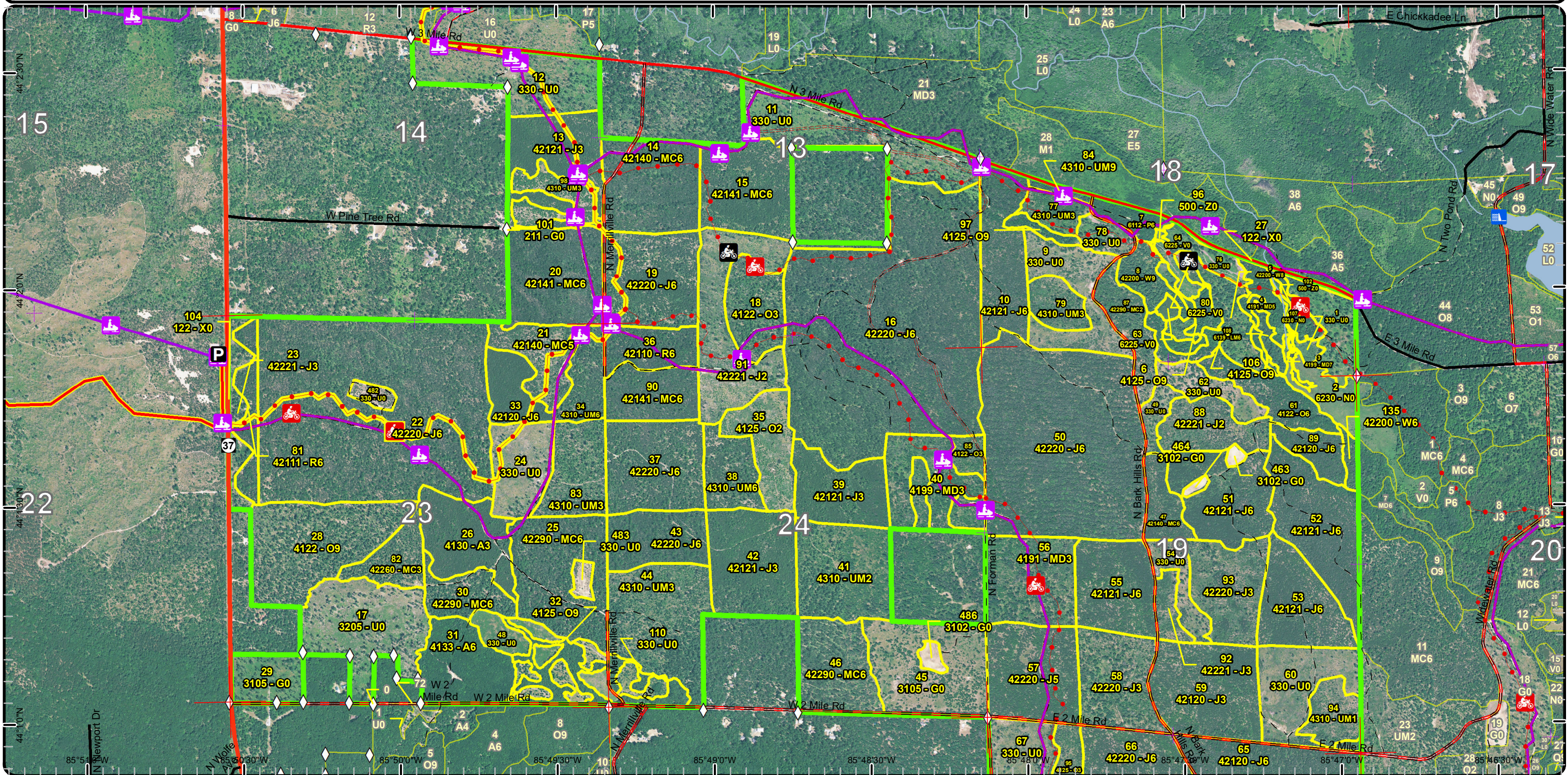
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Stand Boundary Map

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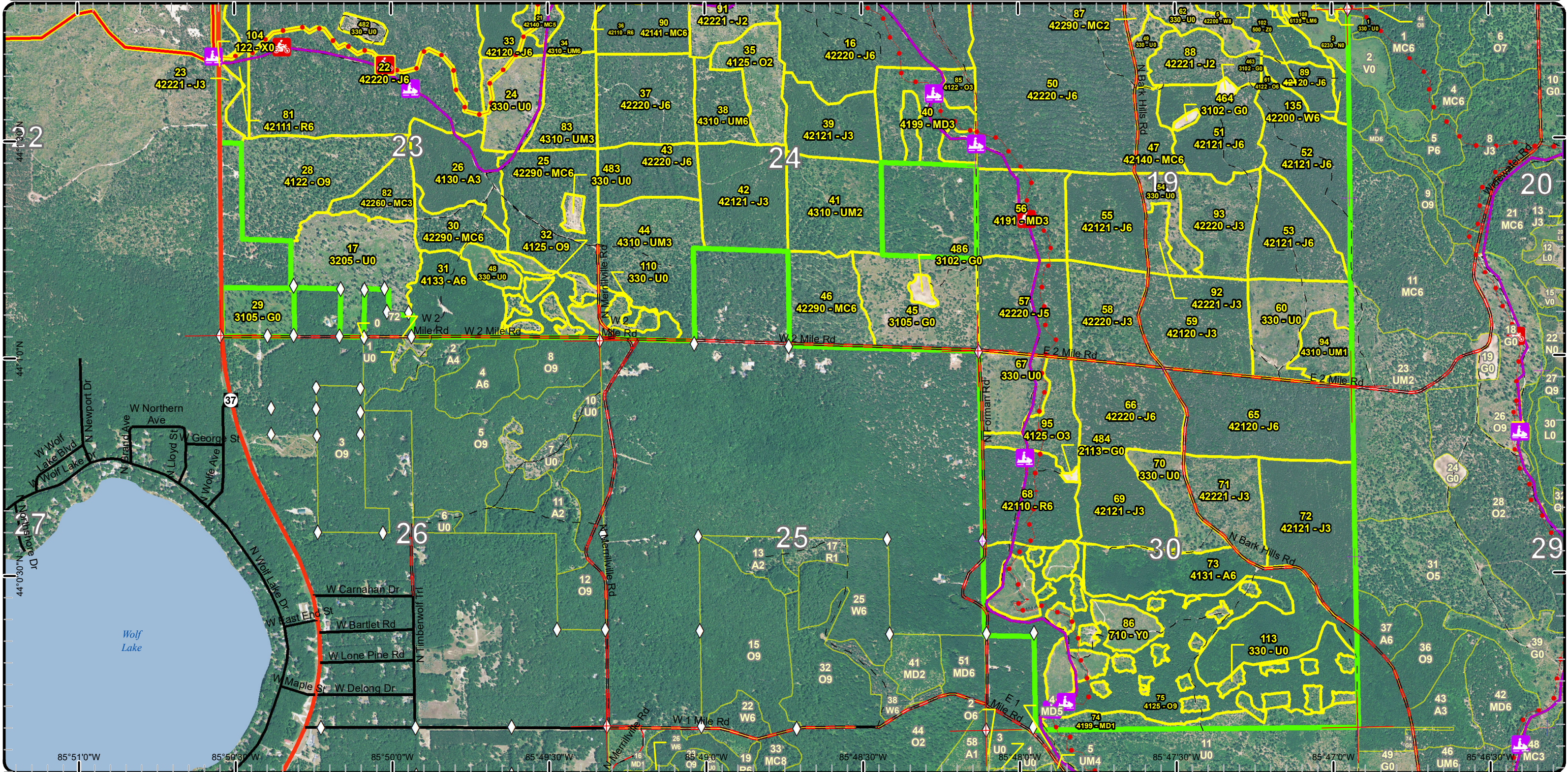
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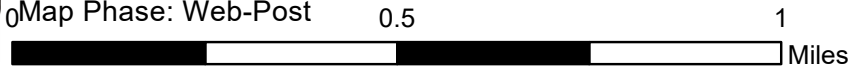
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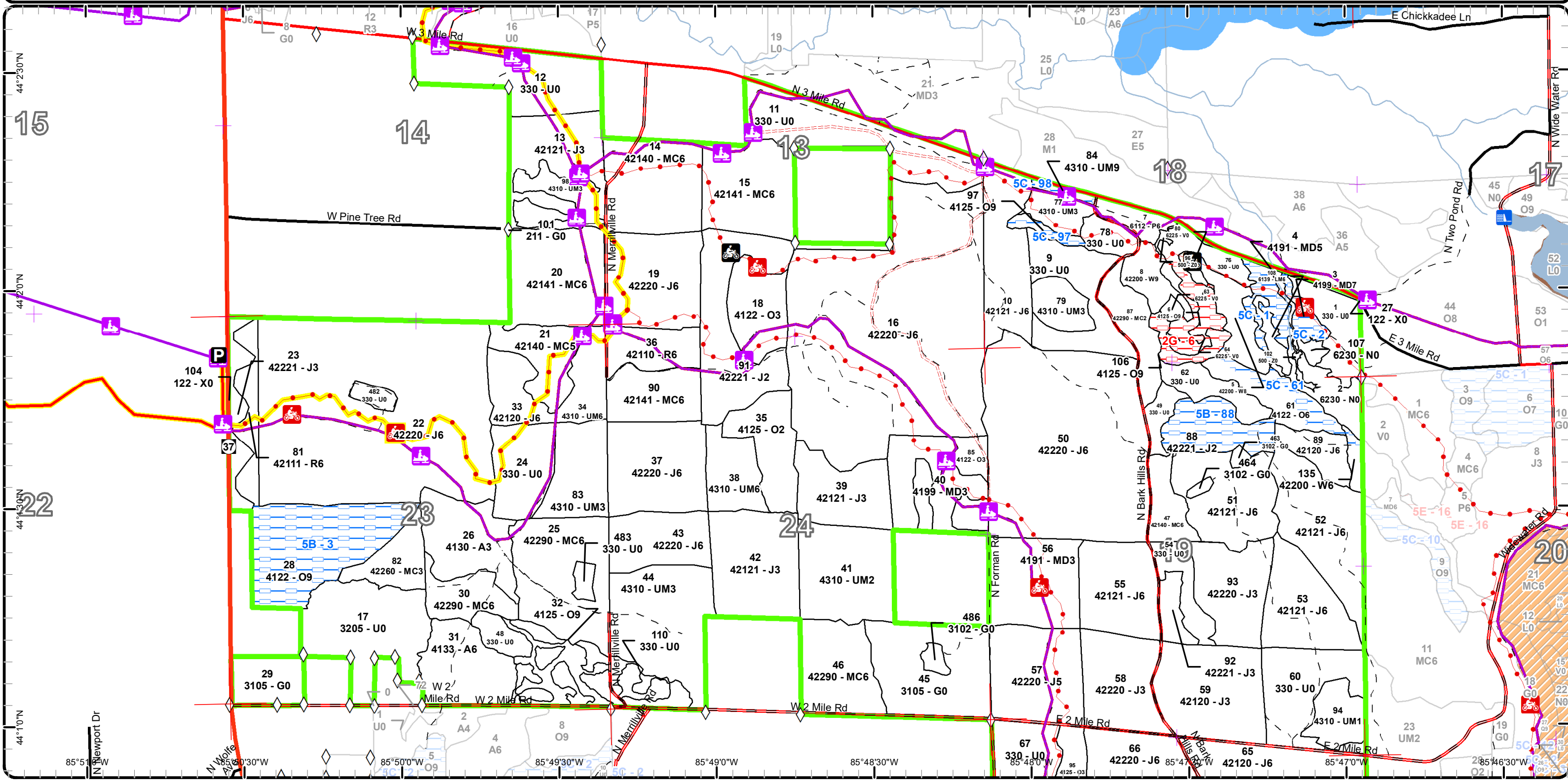


Special Conservation Areas & Site Conditions Map

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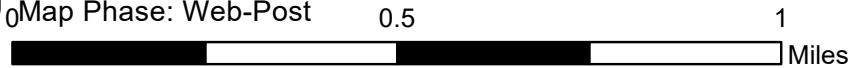


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Eastern Massasauga Managed Land
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Wildlife Management Areas

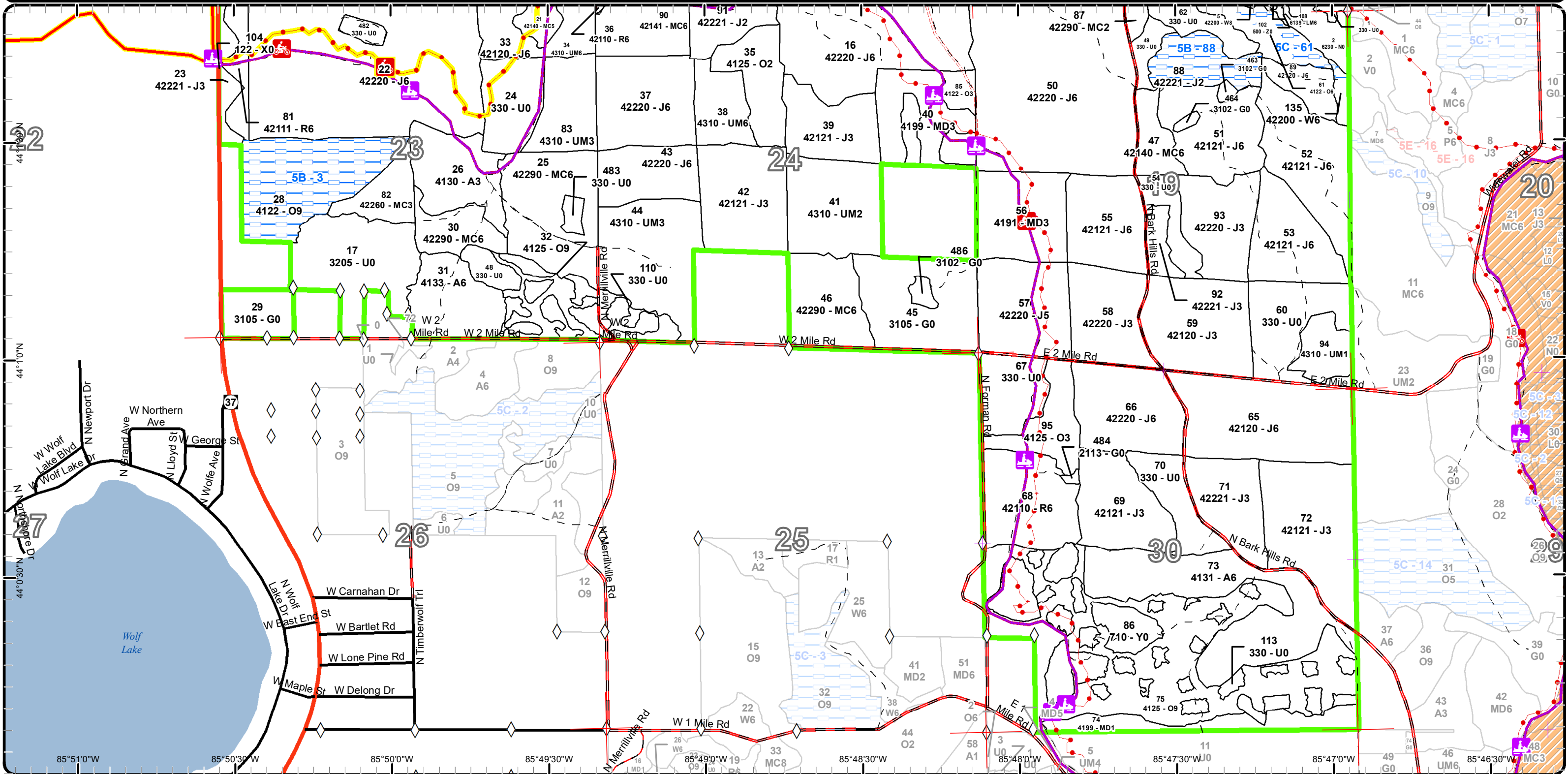


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- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- Eastern Massasauga Managed Land



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 13

Year of Entry 2019

Cheryl Nelson : 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	129
Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Cropland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	331	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	331
Jack Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1377
Low-Density Trees	1567	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1567
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Marsh	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Sand, Soil	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200
Upland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Total	2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4535



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 13

Total Compartment Acres: 3,043

Commercial Harvest - 208
 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
Jack Pine		108	0	0	100	0	0	0	0	0	208
	Total	108	0	0	100	0	0	0	0	0	208

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		208	0	26	0	0	152	0	13		399
	Total	208	0	26	0	0	152	0	13		399



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	63013001-Monitor	17.3	330 - Low-Density Trees	Nonstocked		Unspecified	Monitoring	Natural Regen (Intermediate)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mix of upland deciduous species with conifer component. If regen fails, plant to jack pine.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Mix of upland deciduous species with conifer component.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/03/2022											
9	63013009-Monitor	27.8	330 - Low-Density Trees	Nonstocked		Unspecified	Monitoring	Natural Regen (Intermediate)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mixed upland deciduous species with conifer component. If regen fails, plant to jack pine.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Mixed upland deciduous species with conifer component.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/03/2022											
16	63013016-Cut	108.0	42220 - Natural Jack Pine	Poletimber Well	34	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees except black cherry and red pine. Focus retention along the ORV Route. Use Grouse spec in timber sale.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Mix of upland species.											
<u>Regen:</u>											
<u>Other</u> If regen fails, plant to red pine.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
44	63013017-Monitor	39.0	4310 - Pine, Oak Mix	Sapling Well	16	Immature	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Oak with other upland deciduous species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2020											



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
22	63013022-Cut	100.1	42220 - Natural Jack Pine	Poletimber Well	44	1-50	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all trees except mark a mix of species to keep averaging 10-20 BA. Do not cut any black cherry. Treatment boundary is set back from edge of upland brush stand. Focus retention along the ORV Trail. Use Grouse spec in timber sale.

Next Step
Treatments:

Acceptable Mix of pine and deciduous species.
Regen:

Other If natural regen fails, plant to jack pine.
Comment:

Proposed Start Date: 10/01/2018

29	63013029-Plant	13.4	3105 - Mixed Upland Herbaceous	Nonstocked	0	Unspecified	Planting	Initial Plant	42211 - Natural Red Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Plant to red pine.
Specs:

Next Step
Treatments:

Acceptable Red pine with upland mixed species.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2020

54	63013054-Monitor	11.6	330 - Low-Density Trees	Nonstocked		Unspecified	Monitoring	Natural Regen (Intermediate)	42260 - Natural Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Evaluate for adequate regeneration.
Specs:

Next Step
Treatments:

Acceptable Mix of jack pine, white pine, and mixed upland species.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

62	63013062-Plant	12.7	330 - Low-Density Trees	Nonstocked		Unspecified	Planting	Initial Plant	4212 - Planted Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Plant to jack pine per FTP #C63-679.
Specs:

Next Step
Treatments:

Acceptable Jack pine
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
75	63013075- Monitor	9.6	4125 - Black, N. Pin Oak	Sawtimber Well	100	81-110	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Even-Aged	Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Oak with other upland species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2020											
86	63013075- Monitorx	4.2	710 - Sand, Soil	Nonstocked		Unspec ified	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Even-Aged	Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Oak with other upland deciduous species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2020											
86	63013075- Monitorxx	2.4	710 - Sand, Soil	Nonstocked		Unspec ified	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Even-Aged	Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Oak with other upland deciduous species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2020											
86	63013075- Monitorxxx	10.7	710 - Sand, Soil	Nonstocked		Unspec ified	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Even-Aged	Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Oak with other upland deciduous species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2020											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
86	63013075-Monitorxxxx	3.7	710 - Sand, Soil	Nonstocked		Unspecified	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Even-Aged	Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Oak with other upland deciduous species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2020											
86	63013075-Monitorxxxx	5.5	710 - Sand, Soil	Nonstocked		Unspecified	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Even-Aged	Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Oak with other upland deciduous species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2020											
76	63013076-Monitor	12.2	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4122 - Oak, Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition: Too Wet								
<u>Prescription</u> Oak and pine mix. If regen fails, plant to jack pine.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Oak and pine mix.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/03/2022											
78	63013078-Monitorx	7.8	330 - Low-Density Trees	Nonstocked		Unspecified	Monitoring	Natural Regen (Intermediate)	4122 - Oak, Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mix of oak and pine. If regen fails, plant to jack pine.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Oak, pine mix.											
<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
486	63013463-NF	5.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	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: 10/01/2018

482	63013482-NF	4.0	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	330 - Low- Density Trees		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Maintain in an open state. Brushing and cutting a few trees should accomplish this goal. In addition, native grasses and forbs as well as mast bearing
Specs: shrubs and trees may be planted. Treatment of invasive species as needed.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

483	63013483-NF	3.2	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	320 - Upland Shrub		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Maintain in an open state. Brushing and cutting a few trees should accomplish this goal. In addition, native grasses and forbs as well as mast bearing
Specs: shrubs and trees may be planted. Treatment of invasive species as needed.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

484	63013484-NF	0.7	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2008

**Total Treatment
Acreage Proposed: 399.2**

Report 4 – Site Conditions

Cadillac Mgt. Unit
Cheryl Nelson : Examiner

Compartment: 13
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	2G
		With Condition	Not Available				
129	129	0	0	Aspen			
8	4	0	5	Bog			5
1	1	0	0	Cropland			
66	66	0	0	Herbaceous Openland			
1377	1355	21	0	Jack Pine	21		
340	337	0	3	Low-Density Trees			3
8	8	0	0	Lowland Aspen/Balsam Poplar			
4	4	0	0	Lowland Mixed Forest			
16	16	0	0	Marsh			
98	83	15	0	Mixed Upland Deciduous		15	
127	127	0	0	Natural Mixed Pines			
301	214	75	13	Oak	52	22	13
179	179	0	0	Planted Mixed Pines			
69	69	0	0	Red Pine			
36	36	0	0	Sand, Soil			
199	197	3	0	Upland Mixed Forest		3	
47	47	0	0	Upland Shrub			
4	4	0	0	Urban			
3	3	0	0	Water			
29	15	4	10	White Pine		4	10
3,043	2,894	118	31	Total Forested Acres	74	44	31
	95%	4%	1%	Relative Percent			

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

Site No.	Dominant Site Cond	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Cheryl Nelson : Examiner

Compartment: 13
Year of Entry: 2019

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5B: Maintain for regeneration purposes	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
61	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
88	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
97	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Cheryl Nelson : Examiner

Compartment: 13
Year of Entry: 2019

98	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water 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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	5.4	95	1-50	Mix of aspen, oak, white pine, and black cherry.
4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	9.8	90	51-80	
5	42200 - Natural White Pine	Sawtimber Medium	14.1	40	1-50	Stand treated timber sale #63-012-00-01, "Bark Hill Corner JP" in 2001. Small amount of red maple pulp trees, jack pine seed trees and some white pine pulp & log trees left from sale.
6	4125 - Black, N. Pin Oak	Sawtimber Well	6.5	105	81-110	Upland ridge.
7	6112 - Lowland Aspen	Poletimber Well	8.1	45	51-80	
8	42200 - Natural White Pine	Sawtimber Well	10.9	70	1-50	Stand treated timber sale #63-046-00-02, "Inbetween Release" in summer/fall of 2002. Specs allowed for the removal of mixed oak, jack pine, and red maple.
10	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	33.7	35	1-50	Trenched and handplanted by inmates in 1982. Some natural seed-in has occurred especially to north of stand
13	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	32.8	21	1-50	Stand trenched and handplanted. This stand was also prescribed burned and seeded with sigma seeder unsuccessfully prior to handplanting.
14	42140 - Planted Mixed Pine	Poletimber Well	40.2	36	51-80	Handplanted jack pine and red pine mix by inmates in 1981. some windthrow in stand from storm damage about 5 years ago
15	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	41.9	21	1-50	Seeded to jack pine with Sigma-seeder, May 1996.
16	42220 - Natural Jack Pine	Poletimber Well	196.8	34	51-80	Small open areas scattered throughout. Very small leatherleaf bog in northwest corner of stand. Previous stands# 16,17,33,34 were all cut together and combined between 1980-1986.
18	4122 - Oak, Pine	Sapling Well	22.2	16	Immature	Stand treated timber sale # 63-099-01-01.
19	42220 - Natural Jack Pine	Poletimber Well	40.3	27	1-50	Rroller chopped and chains in 1991.
20	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	41.4	37	51-80	Trenched and handplanted to jack pine and red pine by inmates.
21	42140 - Planted Mixed Pine	Poletimber Medium	20.6	27	1-50	All of the following treatments were completed under FTP #C63-384. Stand hand planted to red pine in 1996, trenched in August of 1995 prescribed burned west of OR U route in spring 1995, slash was roller chopped and chained in 1991 but results were unsatisfactory. 1991 - Slash roller chopped and chains = unsatisfactory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	42220 - Natural Jack Pine	Poletimber Well	184.4	44	1-50	Diameters and densities vary slightly throughout stand. Scattered small oak. Center of stand has an old wildlife opening that is no longer being maintained.
23	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	11.1	12	Immature	Stand treated timber sale #63-015-05-01 "C13 Jack Pine". This stand was entered before YOE due to jack pine budworm damage.
25	42290 - Natural Mixed Pine	Poletimber Well	46.8	33	51-80	Natural seed in jack pine has overtopped planted red pine. Stand cut in 1980, then planted to red pine. Planting almost failed, then some red pine survived with natural seed-in of jack pine and some oak. Stand contains an old wildlife opening that is no longer being maintained.
26	4130 - Aspen	Sapling Well	30.5	21	Immature	Few overstory mixed pines. Handplanted to jack pine in May of 1996. Stand trenched in August of 1995. Clearcut in 1991 rollerchopped with chains but results were very poor.
28	4122 - Oak, Pine	Sawtimber Well	52.5	100	1-50	Stand entered before YOE due to jack pine budworm damage. Sale specs: Cut all jack pine and dead oak trees which meet minimum piece specs; Do not cut any live oak.
30	42290 - Natural Mixed Pine	Poletimber Well	16.0	70	1-50	Stand treated timber sale in 1991. Timber sale paperwork could not be found.
31	4133 - Aspen, Mixed Pine	Poletimber Well	29.4	38	51-80	
32	4125 - Black, N. Pin Oak	Sawtimber Well	20.4	105	81-110	
33	42120 - Planted Jack Pine	Poletimber Well	15.4	21	Immature	Some natural jack pine has seeded in. Handplanted jack pine seedlings in may, 1996. Trenched in August 1995. clearcut in 1991, slash treated with rollerchopper and chains but results were unsatisfactory.
34	4310 - Pine, Oak Mix	Poletimber Well	14.9	27	51-80	Some scattered pole and sawlog size red pine. Small pocket white pine log trees in southwest corner.
35	4125 - Black, N. Pin Oak	Sapling Medium	23.4	15	Immature	Stand was inadvertently burned per FTP #C63-574 in spring 2006. Stand treated timber sale #63-065-99-01 in 2001.
36	42110 - Planted Red Pine	Poletimber Well	17.4	34	1-50	Stand planted red and jack pine per FTP # F-63-105 in June 1983.
37	42220 - Natural Jack Pine	Poletimber Well	40.0	27	Immature	With some scattered pole- size red pine.
38	4310 - Pine, Oak Mix	Poletimber Well	18.4	24	1-50	Stand treated timber sale #63-033-93-02, "Jackpine cone sale". Cut in 1993.
39	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	27.6	21	Immature	Seeded to jack pine with sigma - seeder in May 1996.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4199 - Other Mixed Upland Deciduous	Sapling Well	26.3	12	Immature	Occasional pole to log oak, jack pine, red pine, and white pine. Stand treated timber sale #63-015-05-01 "C13 Jack Pine". This stand was entered before YOE due to jack pine budworm damage. Sale specs: Cut all jack pine and dead oak tree which meet minimum piece specs; Do not cut any live oak trees.
41	4310 - Pine, Oak Mix	Sapling Medium	40.4	15	Immature	Stand treated timber sale #63-067-00-01.
42	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	41.4	21	1-50	Seeded to jack pine with sigma seeder in May 1996.
43	42220 - Natural Jack Pine	Poletimber Well	24.8	42	51-80	Ten acres trenched and hand planted to red pine per FTP # C63-19 in 1979. Red pine combined with jack pine stand to volunteer jack pine overtopping red pine.
44	4310 - Pine, Oak Mix	Sapling Well	48.8	16	Immature	Few scattered overstory jack and red pine. Stand treated timber sale #63-064-99-01 in 2001. Spec required all white oak, red pine, and white pine.
46	42290 - Natural Mixed Pine	Poletimber Well	31.3	55	1-50	Stand treated timber sale #63-049-09-01, "Longbeard Pine". Cut in spring 2013. Previous Comments: Occasional sawlog jack pine, white pine, and red pine. White pine has taken over with heavy mortality in jack pine. Cut all trees over 10" DBH, except, mark occasional oak Green to leave to about 10-20 BA. Thin in areas of heavy white pine pulp to encourage oak seedling and sapling growth.
47	42140 - Planted Mixed Pine	Poletimber Well	12.6	21	1-50	Trenched and hand planted to red pine in 1996. Roller chopped & chains in 1991.
50	42220 - Natural Jack Pine	Poletimber Well	135.4	36	1-50	This stand was originally a large area of natural seed jack pine. Clearcut in east-west strips in 1975 and 1982. Cut areas seeded in. Four jack pine cores yielded ages between 33 and 38 (including years to dbh).
51	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	35.1	25	1-50	Clearcut and roller chopped + chains in 1991. Broadcast seeded to jack pine in April 1992. Timber sale paperwork could not be found.
52	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	42.6	37	1-50	Pockets of leatherleaf throughout stand. Trenched & handplanted to jack pine and red pine by inmates in 1982.
53	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	32.2	25	1-50	Stand roller chopped & chains in 1991. Broadcast seeded in 1991-92 to jack pine. Timber sale paperwork could not be found.
55	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	32.4	21	1-50	Mix of planted and Natural regen. Stand treated in 1991: Clearcut, roller chopped + chains. W1/2 in low area was planted to jack pine in 1996. Ridge in center is oak sprouts and some natural jack regen. Number of growth rings natural jack pine at 4.5' = 10, planted jack pine at 4.5' = 5 rings.
56	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	35.8	15	Immature	Patches of mature oak and pine left in stand. Stand treated timber sale #63-067-00-01 in 2002.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	42220 - Natural Jack Pine	Poletimber Medium	39.6	26	Immature	Clearcut 1991. Center portion of stand was then treated with roller-chopper+ chains (approx. 10 acres).
58	42220 - Natural Jack Pine	Sapling Well	32.7	12	Immature	Stand cut timber sale #63-015-05-01 "C13 Jack Pine". This stand was entered before YOE due to jack pine budworm damage. Sale specs: Cut all trees that are 4" or more, do NOT cut white oak, red pine, white pine, and green painted trees.
59	42120 - Planted Jack Pine	Sapling Well	43.9	21	Immature	Stand clearcut 1991, slash roller-chopped + chains. Broadcast seeded to jack 1991-92. Low areas only were trenched and hand planted to jack 1996.
61	4122 - Oak, Pine	Poletimber Well	18.5	95	51-80	
65	42120 - Planted Jack Pine	Poletimber Well	63.6	34	1-50	Small amount of wind damage. Machine planted to jack pine per FTP # C63-216 in May 1983. Some red pine planted with jack pine.
66	42220 - Natural Jack Pine	Poletimber Well	40.0	26	1-50	Clearcut 1991, slash roller chopped+chains July 1991.
68	42110 - Planted Red Pine	Poletimber Well	38.1	36	1-50	Stand trenched and hand planted per FTP #C63-215 in May of 1983.
69	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	33.8	23	Immature	Small pocket of Pole to log white pine in southeast corner of stand as well as scattered individuals. Clearcut in 1991. North 1/2 was machine planted jack pine seedlings in June, 1994. South 1/2 was hand planted to jack pine seedlings in May, 1996. Gaps from 1994 planting were filled in during 1996 planting.
71	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	27.7	15	Immature	Stand treated timber sale #03-074-99-01. Cut in 2002. Some overstory jack pine and Oak left for seed sources.
72	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	53.0	26	1-50	Planted jack pine. Can't find FTP #.
73	4131 - Aspen, Oak	Poletimber Well	69.1	37	1-50	Occasional jack pine, red pine, and white pine scattered throughout stand.
74	4199 - Other Mixed Upland Deciduous	Sapling Poor	20.8	10	Immature	Stand treated timber sale #63-001-05-01, cut in 2007. Pole to Log oak were left. Pockets of good aspen regen up to 5'. Oak stump sprouts and some single stem seedlings/saplings coming up but not heavy. Red maple stump sprouts, cherry brush, and sassafras sprouts make up the rest of the vegetation.
75	4125 - Black, N. Pin Oak	Sawtimber Well	111.0	100	81-110	
77	4310 - Pine, Oak Mix	Sapling Well	9.5	16	Immature	Occasional overstory pine and oak. It and treated timber sale # 63-012-00-01



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
79	4310 - Pine, Oak Mix	Sapling Well	11.4	16	1-50	Some overstory log oak left in stand. Stand treated timber sale #63-038-00-01, "Veery Bird J.P." in summer/fall of 2002. Spec: Leave one healthy, mature jack pine every 75' throughout stand. Green marked oak to keep.
81	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	13.5	37	51-80	Stand trenched & handplanted red pine by inmates. 10'x7' spaced, May 1980.
82	42260 - Natural Pine, Mixed Deciduous	Sapling Well	15.3	16	1-50	Stand treated timber sale #63-064-99-01 in 2001.
83	4310 - Pine, Oak Mix	Sapling Well	24.5	16	Immature	Previous Comment: Shelterwood jack pine. Leave all red pine and oak including snags. Stand treated 2001; sale # 649901
84	4310 - Pine, Oak Mix	Sawtimber Well	2.6	90	51-80	
85	4122 - Oak, Pine	Sapling Well	15.6	15	Immature	Occasional pole to log jack pine, red pine, and Oak. Stand treated timber sale # 63-067-00-01 in 2002.
87	42290 - Natural Mixed Pine	Sapling Medium	17.5	17	Immature	Stand treated timber sale #63-038-00-01, "Veery Bird J.P.". Spec was to cut all trees except green marked oak, and to leave one healthy, mature, jack pine every 75'.
88	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	21.5	15	Immature	Occasional overstory jack pine and oak. Stand treated timber sale # 63-038-00-01, "Veery Bird J.P." in summer/fall of 2002 BY Rothig F.P.
89	42120 - Planted Jack Pine	Poletimber Well	11.4	37	1-50	Few small pockets of blowdown in stand. Trenched and handplanted jack pine and red pine by inmates, 1980.
90	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	22.1	34	1-50	Stand supplemental planted jack pine per FTP # F-63-105 in May od 1986. Stand planted red and jack pine per FTP # F-63-105 in June 1983.
91	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	45.5	3	Immature	Stand treated timber sale #63-056-09-01, Tick Central. Timber sale prescription: Final Harvest. GREEN mark oak and jack pine sawlogs to keep, 20-30 BA. Do not cut oak under 4.5" DBH.
92	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	7.5	16	Immature	Occasional overstory jack pine and Oak. Stand treated timber sale #63-074-99-01 in 2001.
93	42220 - Natural Jack Pine	Sapling Well	30.8	16	1-50	Some pole sized jack pine and oak leftover from timber sale. Stand treated timber sale #63-074-99-01, cut in 2001. Few overstory jack pine and oak.
94	4310 - Pine, Oak Mix	Sapling Poor	13.6	16	Immature	Stand treated in 2001 sale #63-74-99-01.
95	4125 - Black, N. Pin Oak	Sapling Well	21.1	16	Immature	Occasional log red oak and jack pine. Stand treated timber sale #63-074-99-01 in 2001.

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Cadillac Mgt. Unit

Report 7 – Forested Stands

Compartment: 13
Year of Entry: 2019



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
97	4125 - Black, N. Pin Oak	Sawtimber Well	3.8	95	51-80	
98	4310 - Pine, Oak Mix	Sapling Well	15.4	21	Immature	
106	4125 - Black, N. Pin Oak	Sawtimber Well	6.4	105	81-110	Upland ridge.
108	6139 - Mixed Lowland Forest	Poletimber Well	4.4	45	Unspecified	
135	42200 - Natural White Pine	Poletimber Well	3.6	65	51-80	Leatherleaf bog in stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
29	3105 - Mixed Upland Herbaceous	15.6		Stand treated timber sale #63-070-09-01, Pileated Paradise.
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45	3105 - Mixed Upland Herbaceous	45.3		Stand planted jack pine per FTP # C63-680. Stand treated timber sale #63-049-09-01, "Longbeard Pine". Cut in spring 2013.
48	330 - Low-Density Trees	14.5		Stand treated timber sale #63-067-11-01, Tree Monkey Oak.
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49	330 - Low-Density Trees	6.6		Occasional overstory oak and pine left standing. Some sapling jack pine, black cherry, and oak. Stand treated timber sale #63-059-09-01, "Jack Dogleg". Cut spring of 2013. Previous year of origin = 1933. Previous Comment: Final harvest. Areas of stand falling apart. Good oak and jack pine regen to 15' tall. Good amount of oak seedlings. Green mark occasional sawlog oak and jack pine to leave avg 20-30 BA. Acceptable regen is a mix of jack pine and oak.
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54	330 - Low-Density Trees	11.6		Few overstory oak and jack pine long trees. Stand treated timber sale #63-059-09-01, "Jack Dogleg". Cut in spring of 2013.
60	330 - Low-Density Trees	31.7		Few overstory jack pine and oak log trees. Stand treated timber sale #63-062-09-01, "Jack Trails".
62	330 - Low-Density Trees	12.7		Stand treated timber sale #63-059-09-01, "Jack Dogleg". Cut in spring of 2013.
63	6225 - Bog	1.7	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
76	330 - Low-Density Trees	12.1		Stand treated timber sale #63-056-09-01, "Tick Central".
76	330 - Low-Density Trees	12.1		Stand treated timber sale #63-056-09-01, "Tick Central".
76	330 - Low-Density Trees	12.1		Stand treated timber sale #63-056-09-01, "Tick Central".
78	330 - Low-Density Trees	7.8		Stand treated timber sale #63-056-09-01, "Tick Central".
80	6225 - Bog	1.9	No	
86	710 - Sand, Soil	36.4		Stand treated timber sale #63-071-07-01, "Patchy Oak".
96	500 - Water	0.8	No	
101	211 - Cropland	0.0	No	
102	500 - Water	2.4	No	
104	122 - Road/Parking Lot	1.2	No	M-37
107	6230 - Cattail	2.3	No	Cattails with tag alder, Some pine beginning to grow.
110	330 - Low-Density Trees	13.3		
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113	330 - Low-Density Trees	25.7		Stand treated timber sale #63-047-00-01, "Bark Hill Oak". Treated in 2001/2002 by Holmes Forest Products.
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463	3102 - Grass	1.4	No	Maintained wildlife rye field.
464	3102 - Grass	1.3	No	Maintained wildfire rye field.
482	330 - Low-Density Trees	4.0	No	Old wildlife opening.
483	330 - Low-Density Trees	3.2	No	Old wildlife opening.



Stand	Cover Type	Acres	Managed Site	General Comments:
484	2113 - Forage Crops	0.7	No	Maintained wildlife rye field.
486	3102 - Grass	2.7	No	Maintained wildlife rye field.