



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63005

Entry Year 2021

Acreage: 1,505

County Lake

Management Area: Lake County Outwash

Revision Date: 2019-06-11

Stand Examiner: Ryan Adamczyk

Legal Description:

T20N R13W Sec.13, 24; T20N R12W Sec. 7, 18, 19

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. Expected trends within this 10-year planning period are the need to minimize jack pine budworm damage by reducing the amount of more susceptible older jack pine; the need to regenerate oak and red pine; the need to target some accessible aspen in older age-classes for harvest; and increased recreational pressure.

Soil and topography:

Graycalm, Rubicon and Grayling Sands, flat plains to rolling hills.

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

Several large blocks of state-owned lands with other smaller holdings intermingled with private lands and Federal Lands.

Unique Natural Features:

Dusted skipper* recorded on state land within section 13. Great Plains spittlebug* recorded in se 1/4 of section 13 within compartment, in the ne 1/4 of section 11 just outside of compartment, and to the sw. Bald eagle to s. Common loon to s. Redshouldered hawk to ne. Northern goshawk to e and n. Grasshopper sparrow to n. Massasauga to s. Wood turtle to n, ne, s, and sw. Eastern box turtle to n. Ottoe skipper to sw. Several Hill's thistle records to the n, nw, and sw. Two Missouri rock-cress records to the w. Historical Virginia bluebells record to ne along Honey Creek. High quality poor conifer swamp to s. Potential or dry prairie plants in grassy openings: Hill's thistle, rough fescue, Alleghany plum, and pale agoseris. Potential for dusted skipper, Ottoe skipper, and Great Plains spittlebug.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Visual management techniques need to be utilized where necessary for the travel influence zones of M-37 and the recreational feature of the Lincoln Hills motor sport and cycle trails.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Featured wildlife species in this Management Area are diverse reflecting the wide range of habitat types present. Featured Species for the MA include two which are not much of a focus in this compartment, Mallard and Woodduck. More applicable are American Martin, American Woodcock, Beaver, Black Bear, Eastern Massauga rattlesnake, Golden-winged warbler, Pileated woodpecker, Red-headed woodpecker, Ruffed Grouse, Snowshoe Hare, Wild Turkey, and White Tailed deer. Most of these species benefit from young forest and open types while some require some old trees for foraging and nest/den sites. Maintaining the opening types and balancing harvests with a diverse assortment of age classes in the timber types will meet the goals for these species.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are not located in the vicinity, but there appears to be sand & gravel potential within the

compartment. The nearest oil and gas production, past or present, is more than four miles away. There has not been any recent mineral leasing activity in this area and no drilling activity in decades. Oil & gas potential in the compartment is considered low at this time. There is no known metallic mineral potential in this part of the state.

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.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

Several ORV and motor bike trails run through out this compartment.

Fire Protection:

Much of the area within this compartment has the potential for large fire growth. Fuels in the compartment would support the possibility of crown fires. Urban interface within the unit is a concern, both for fire suppression, and the increased possibilities of ignitions. Displaced camping and recreational use could intensify the possibility of fire ignitions. This compartment has been purposed as a possible zone dispatch area.

Additional Compartment Information:

The following reports from the Inventory are attached:

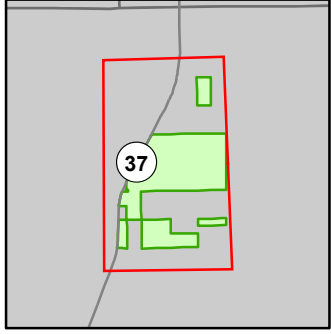
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

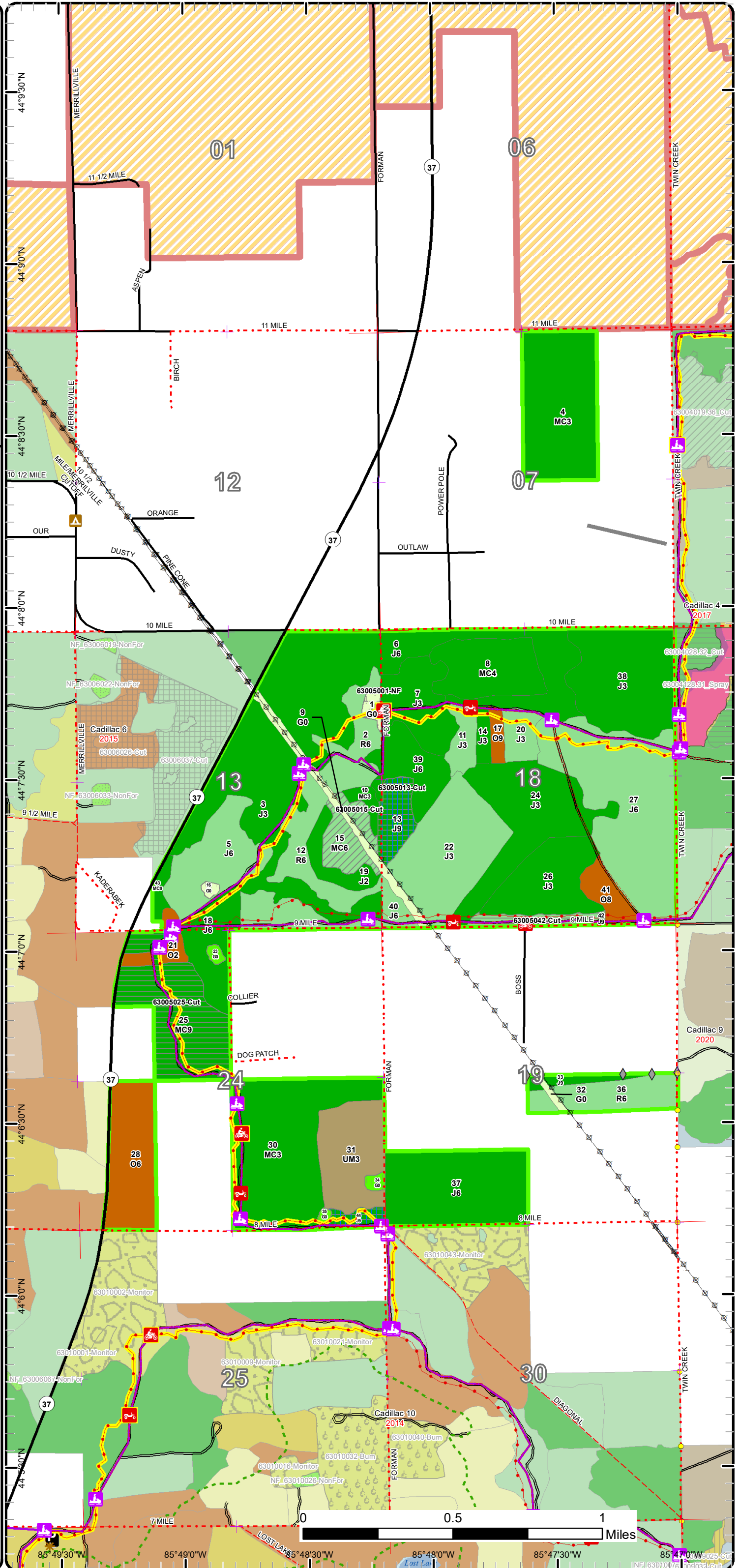
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 5
 T20N-R13W Sec. 13,24
 County: Lake
 Unit: Cadillac
 Mgmt Area: Lake County Outwash
 YOE: 2021
 Acres: 1,505 GIS Calculated
 Examiner: Ryan Adamczyk
 Map Revised: 11/14/2019
 Map Phase: Post-Review

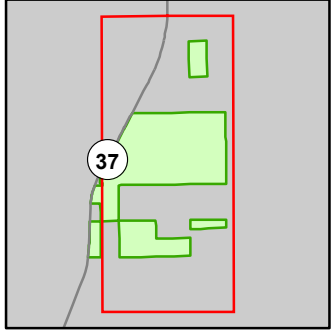


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Motorcycle Trails (DNR License)
- MCCCT Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Campground
- Pipeline
- Powerline
- Airports
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 412 - Oak Types
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 211 - Cropland
- 310 - Herbaceous Openland

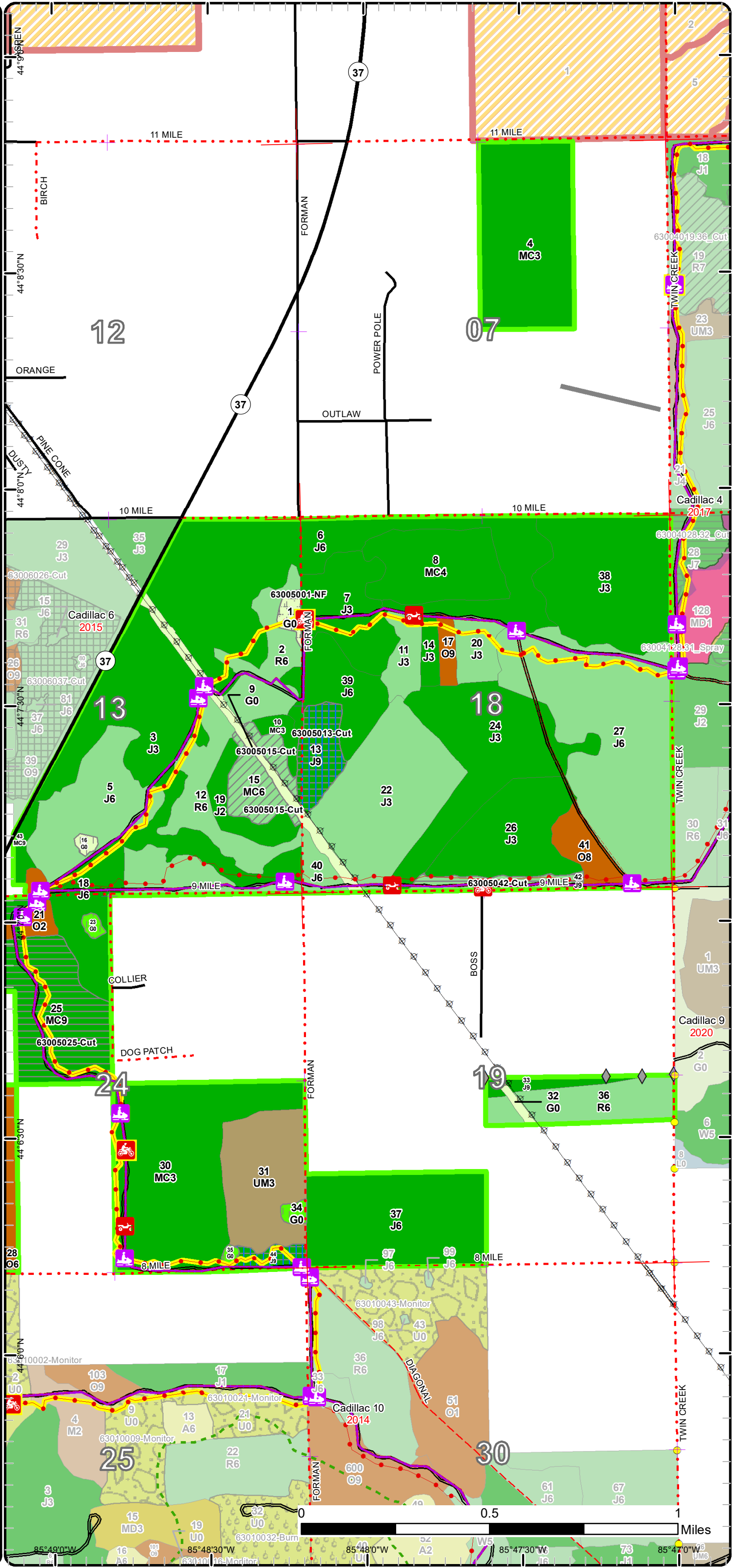


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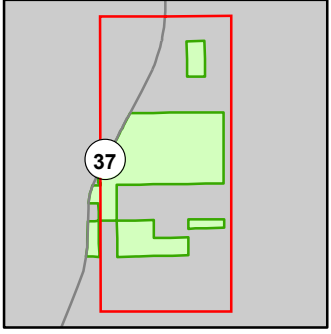
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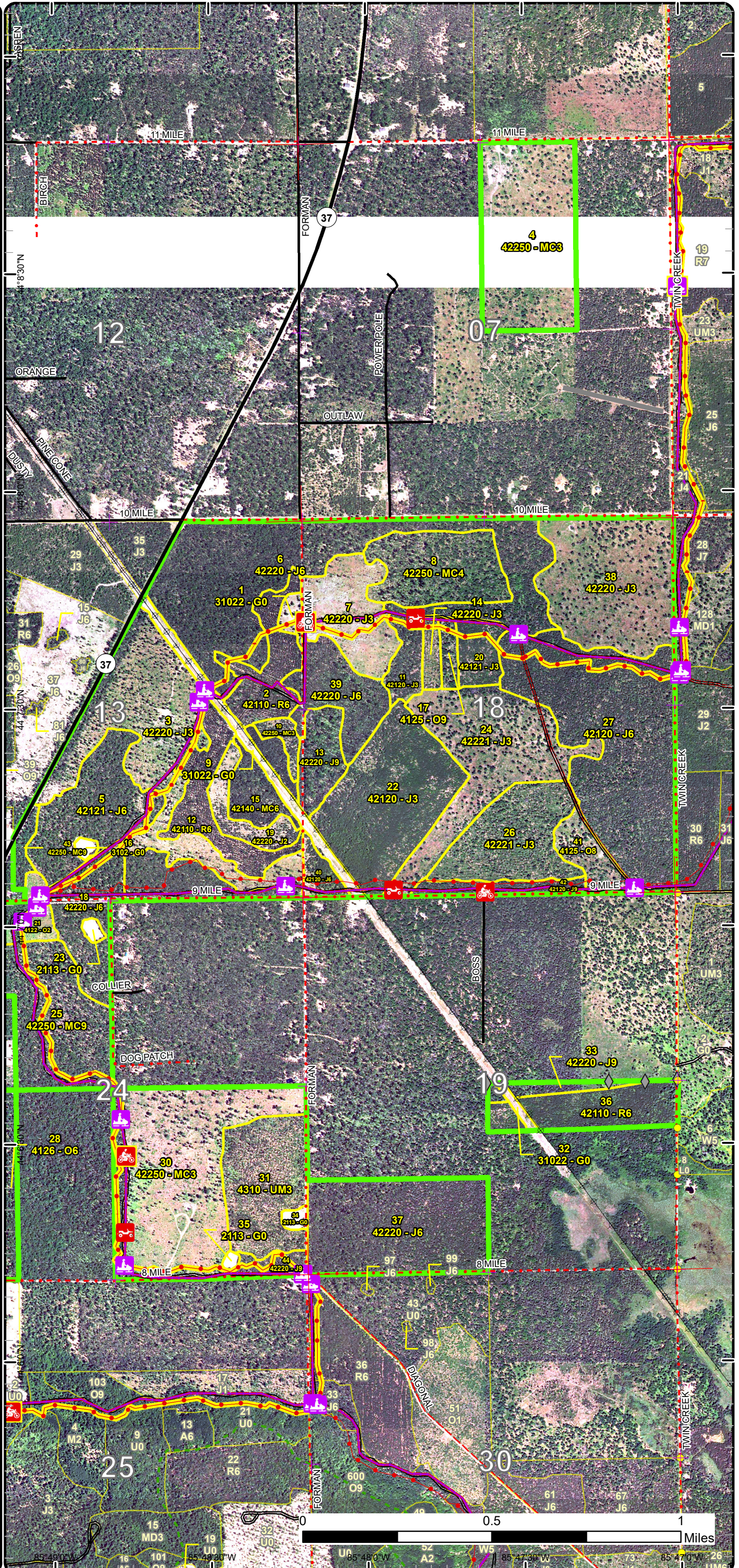
85°49'0"W 85°48'30"W 85°48'0"W 85°47'30"W 85°47'0"W
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Stand Boundary Map

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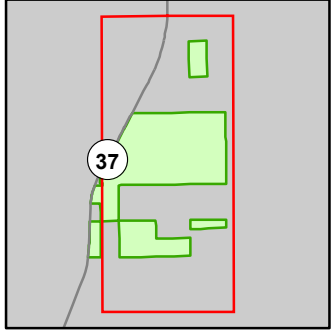


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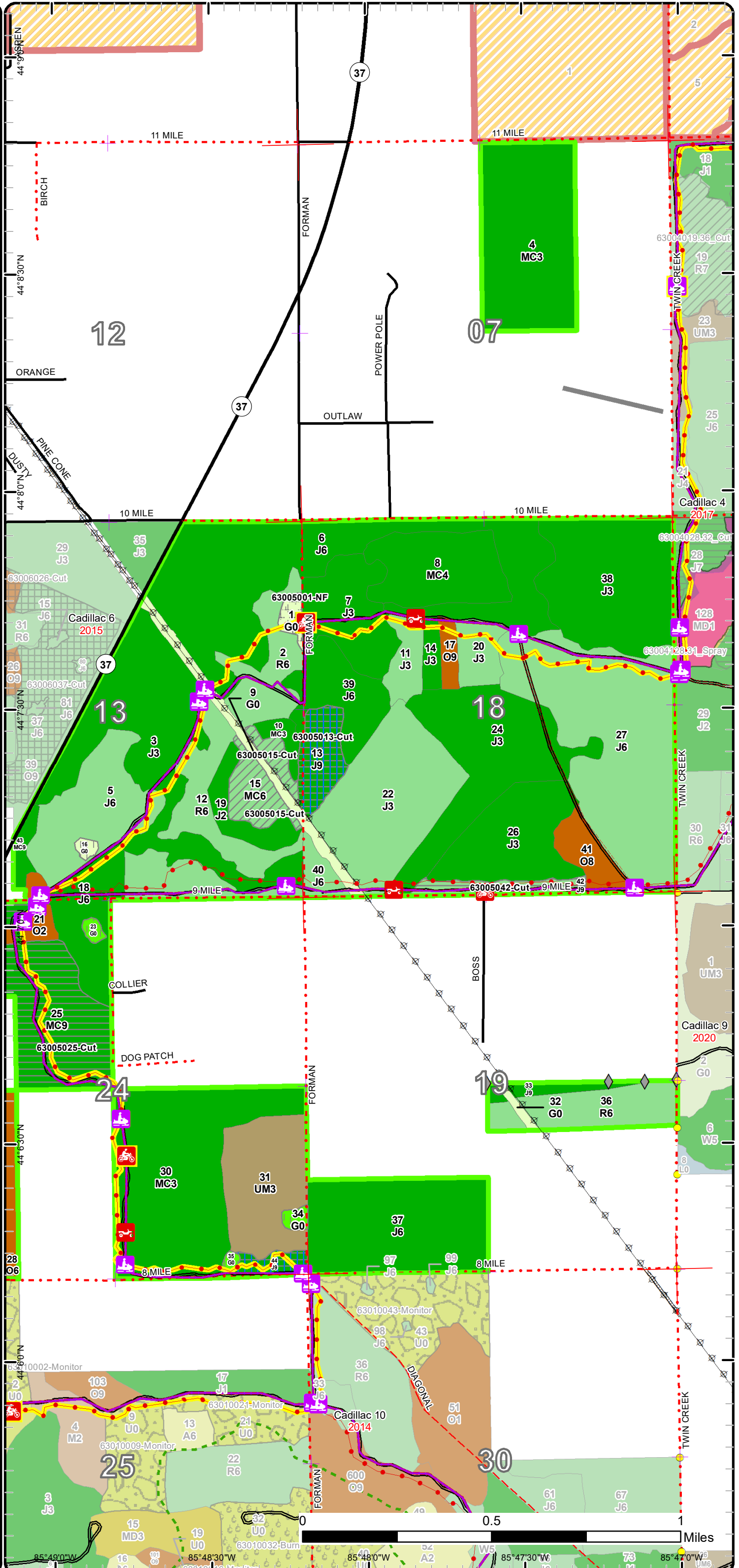


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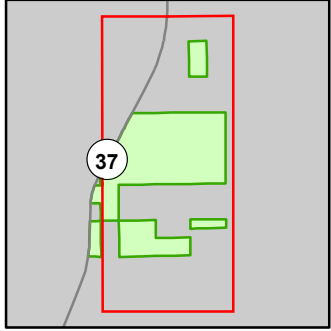


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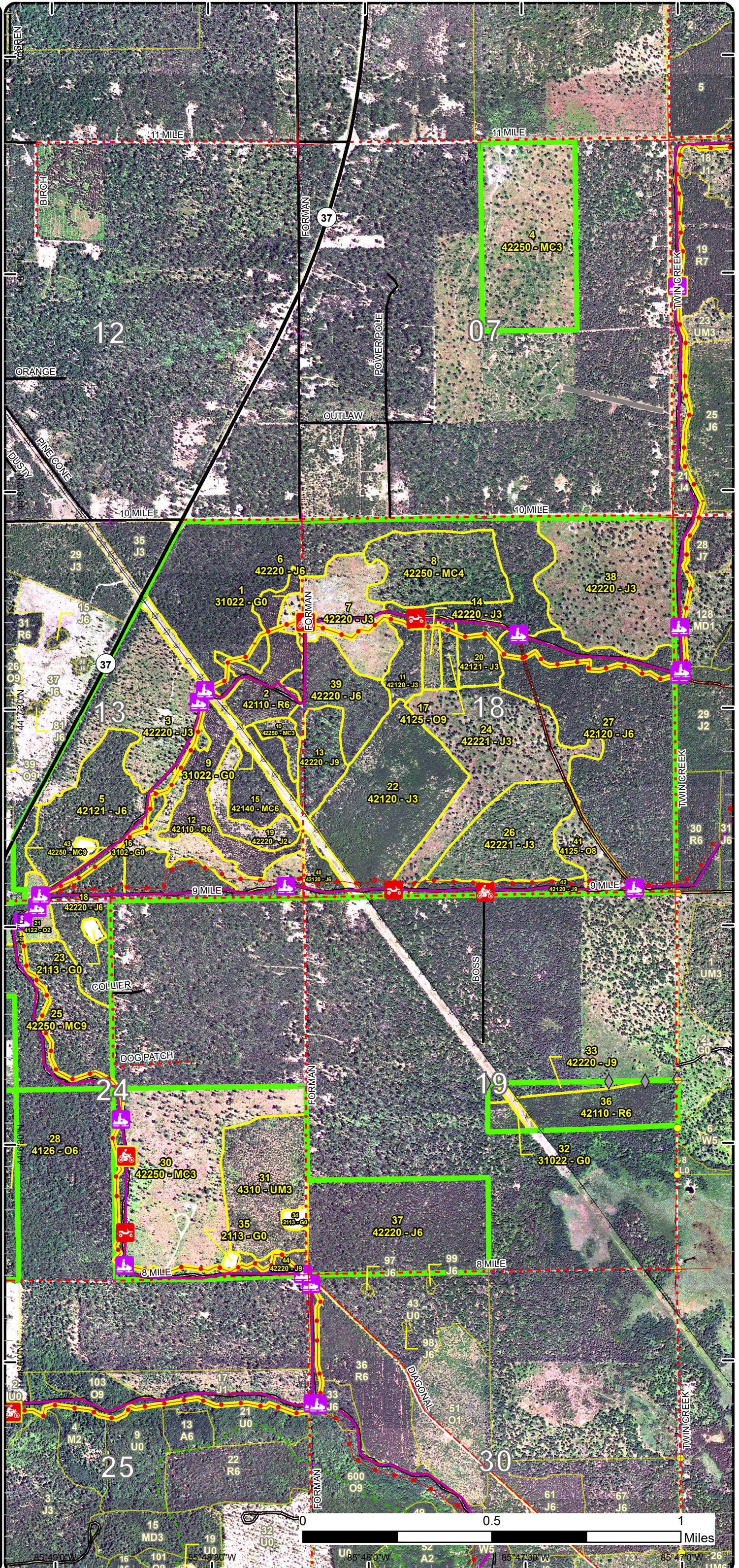


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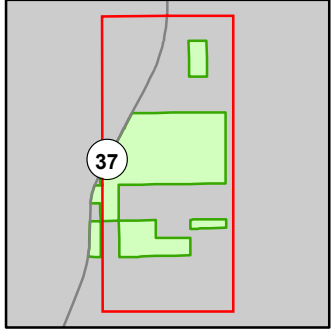


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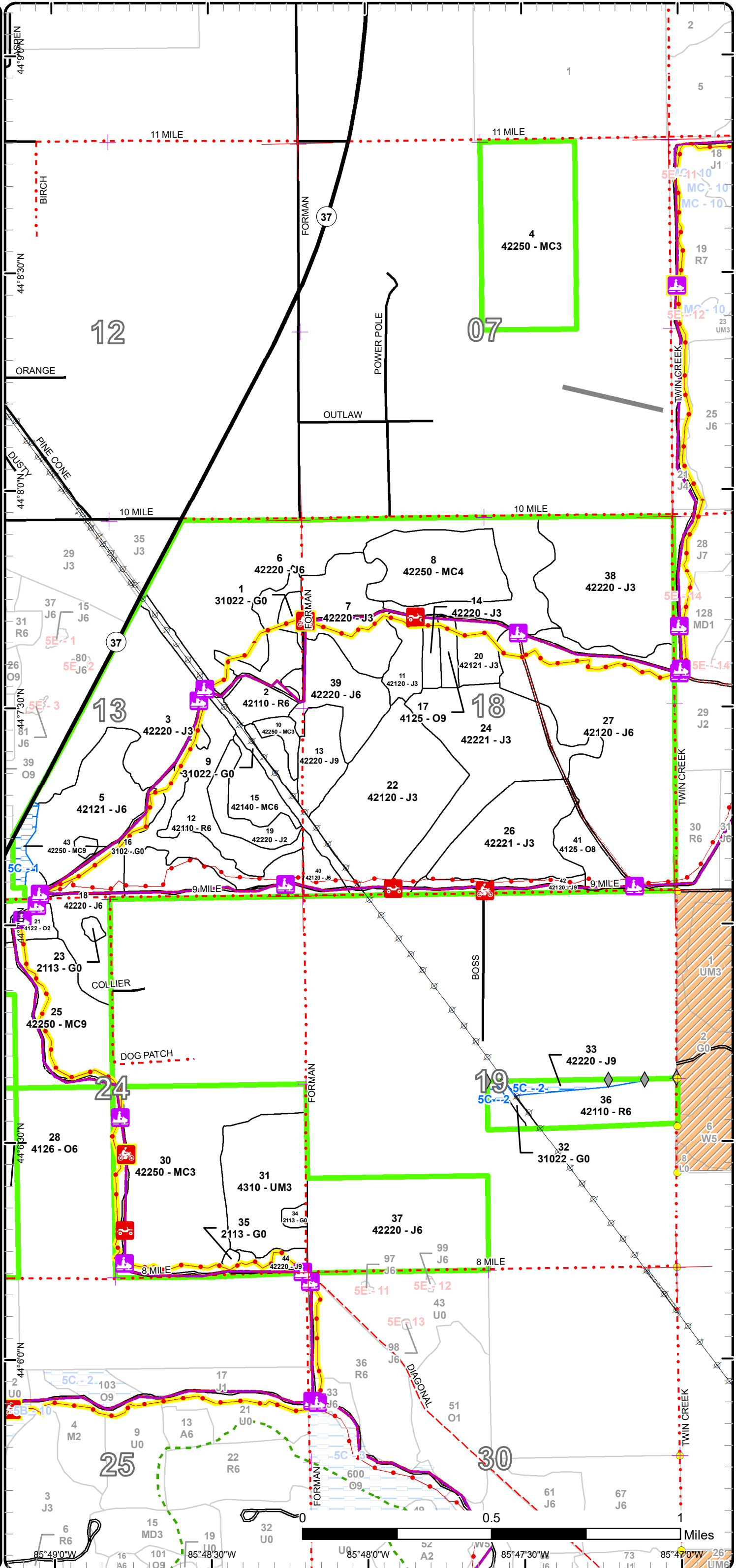


Special Conservation Areas

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- ⊕ Powerline
- Airports
- Compartment Boundary
- Available w/ Constraints
- 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



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+	Unnever-Aged	Total
Cropland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Jack Pine	0	268	65	105	156	295	0	43	0	0	0	0	0	0	0	0	0	0	932
Natural Mixed Pines	0	186	41	5	0	0	0	78	0	0	0	0	0	0	0	0	0	0	310
Oak	0	10	0	0	0	0	0	0	72	0	0	0	0	0	0	0	0	0	81
Planted Mixed Pines	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	31	0	0	56	0	0	0	0	0	0	0	0	0	0	0	87
Upland Mixed Forest	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Total	28	464	153	141	156	315	56	121	72	0	0	0	0	0	0	0	0	0	1505



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 5

Total Compartment Acres: 1,505

Commercial Harvest - 128
 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	11	0	0	25	0	0	0	0	0	36
Natural Mixed Pines	72	0	0	0	0	0	0	0	0	72
Planted Mixed Pines	0	0	0	0	0	20	0	0	0	20
Total	83	0	0	25	0	20	0	0	0	128

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	128	0	0	0	0	0	0	11	0	139
Next Step	0	0	0	0	0	0	108	0	0	108
Total	128	0	0	0	0	0	108	11	0	247



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

1	63005001-NF	4.0	31022 - Warm Season Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Keep open. Cut brush and trees as needed. May plant shrubs, mast producing trees as well as grasses and forbs. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
13	63005013-Cut	17.6	42220 - Natural Jack Pine	Sawtimber Well	65	111- 140	Harvest	Seed Tree	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Mark this stand 10-20 BA focusing retention on oak. Cut all jack pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Jack pine, pin oak <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
15	63005015-Cut	19.9	42140 - Planted Mixed Pine	Poletimber Well	41	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin to release the red pine. Cut any jack pine that is accessible to cutting equipment down each row. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
25	63005025-Cut	71.9	42250 - Pine, Oak	Sawtimber Well	68	141- 170	Harvest	Clearcut with Retention	42250 - Pine, Oak	Even-Aged	No
<p><u>Prescription</u> Cut all trees besides red pine. Cut trees along ORV trails. Mark a few pockets throughout the stand as long term retention in accordance with certification requirements. Keep trail crossing to a minimum. Possibly use the Northwest corner along M-37 as a landing site as well as establishing a site off of Dogpatch Rd.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine, pin oak, white pine, red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
34	63005034-NF	2.3	2113 - Forage Crops	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
<p><u>Prescription</u> Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually. Option to convert to perennial grass/forb mix with mast producing species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
42	63005042-Cut	11.2	42120 - Planted Jack Pine	Sawtimber Well	68	111- 140	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees, no retention. Use ORV spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine, pin oak</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
44	63005044-Cut	7.4	42220 - Natural Jack Pine	Sawtimber Well	62	141- 170	Harvest	Seed Tree	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Mark this stand 10-20 BA with a mix of species focusing on oak. Cut all trees along the ORV trails. Use ORV spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine, pin oak, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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23	Plot 2	1.8	2113 - Forage Crops	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually. Option to convert to perennial grass/forb mix with mast producing species.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 5 /24/2019

35	Plot 3	1.1	2113 - Forage Crops	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually. Option to convert to perennial grass/forb mix with mast producing species.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 5 /24/2019

16	Plot1	1.6	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually. Option to convert to perennial grass/forb mix with mast producing species.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 5 /24/2019

Total Treatment 138.8
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
Ryan Adamczyk : Examiner

Compartment: 5
Year of Entry: 2021

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

5C

5	5	0	0	Cropland	
23	23	0	0	Herbaceous Openland	
931	924	7	0	Jack Pine	7
310	305	6	0	Natural Mixed Pines	6
81	81	0	0	Oak	
20	20	0	0	Planted Mixed Pines	
87	87	0	0	Red Pine	
47	47	0	0	Upland Mixed Forest	
1,505	1,492	13		Total Forested Acres	13
	99%	1%	0%	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	Available		5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Available		5C: Delay treatment for age/size class diversity or exceptional site quality	7	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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
1	31022 - Warm Season Grass	Nonstocked	4.0			No																												
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2	42110 - Planted Red Pine	Poletimber Well	26.4	57	111-140	N/A	Stand was third row thinned in 2013 as part of sale # "63-056-01", "Wandering Eye Red".																											
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3	42220 - Natural Jack Pine	Sapling Well	88.5	5	Immature	N/A	Stand was treated in 2014 as part of sale # "63-051-11", "Tucked Shirt Jack".																											
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4	42250 - Pine, Oak	Sapling Well	79.8	5	Immature	N/A	Stand was treated in 2014 as part of sale # "63-008-11", "Tailfin Jack".																											
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5	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	67.2	47	141-170	N/A	Stand was clearcut in '71 and then hand planted to jack pine in '72.																											
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6	42220 - Natural Jack Pine	Poletimber Well	125.0	35	141-170	N/A	Stand was cut in 1983 as part of sale # "63-014-01", Towerline Pine Sale".																											
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8	42250 - Pine, Oak	Poletimber Poor	41.1	15	Immature	N/A	Stand was cut in 2003 as part of "Section 18 Jack Pine", sale # "630070101".																											
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15	42140 - Planted Mixed Pine	Poletimber Well	19.9	41	141-170	N/A																																		
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Red Pine	High	10 - 20 feet	Sapling																																					
16	3102 - Grass	Nonstocked	1.6			Managed Opening	wildlife opening																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
17	4125 - Black, N. Pin Oak	Sawtimber Well	5.5	74	51-80	N/A	Stand was cut in 2003 as part of "Section 18 Jack Pine", sale # "630070101".			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern Pin Oak		100	Log/Pole	12	74	Northern Pin Oak		Low	5 - 10 feet	Sapling
Jack Pine						Jack Pine		Medium	5 - 10 feet	Sapling
18	42220 - Natural Jack Pine	Poletimber Well	31.3	38	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Northern Pin Oak		25	Pole/Log	8						
Jack Pine		75	Pole/Sap/Log	7	38					
19	42220 - Natural Jack Pine	Sapling Medium	13.6	14	Immature	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		100	Sapling/Pole	2	14					
20	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	12.7	26	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Northern Pin Oak		20	Sapling	3						
Jack Pine		80	Sapling	3	26					
21	4122 - Oak, Pine	Sapling Medium	10.0	5	Immature	N/A	Stand was treated in 2014 as part of sale # "63-051-11", "Tucked Shirt Jack".			
Canopy Species		% Cover	Size Class	DBH	Age					
White Oak		10	Sapling	1						
Northern Pin Oak		50	Sapling	1	5					
Jack Pine		40	Sapling	1						
22	42120 - Planted Jack Pine	Sapling Well	72.3	26	141-170	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		90	Sapling	4	26					
23	2113 - Forage Crops	Nonstocked	1.8			Managed Opening	wildlife opening			
24	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	70.3	5	Immature	N/A	Stand was treated in 2014 as part of sale # "63-047-01", "Grouse Kabob Jack".			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		65	Sapling	1	5					
Northern Pin Oak		28	Sapling	1						



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25	42250 - Pine, Oak	Sawtimber Well	71.9	68	141-170	N/A																																										
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28	4126 - White, Black, N. Pin Oak	Poletimber Well	51.2	73	51-80	N/A	Stand was cut in 2002 as part of sale # "63-103-01", "Three Wet Techs". Five pockets were clearcut in this stand. The rest of the stand, all aspen, red maple, and jack pine were cut.																																									
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30	42250 - Pine, Oak	Sapling Well	106.6	5	Immature	N/A	Stand was treated in 2014 as part of sale # "63-051-11", "Tucked Shirt Jack".																																									
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31	4310 - Pine, Oak Mix	Sapling Well	47.2	18	Immature	N/A	Stand was cut in 2001 as part of sale # "63-006-01", "Forman North Jack Pine". Mature jack pine was left every 50ft.																																									
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32	31022 - Warm Season Grass	Nonstocked	2.1			No	power lines																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
33	42220 - Natural Jack Pine	Sawtimber Well	6.9	65	111-140	N/A																																
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34	2113 - Forage Crops	Nonstocked	2.3			Managed Opening	wildlife opening																															
35	2113 - Forage Crops	Nonstocked	1.1			Managed Opening	Wildlife opening																															
36	42110 - Planted Red Pine	Poletimber Well	30.6	26	141-170	N/A	Planted to red pine in '93 with 906 trees per acre.																															
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37	42220 - Natural Jack Pine	Poletimber Well	76.2	49	141-170	N/A																																
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38	42220 - Natural Jack Pine	Sapling Well	73.9	5	Immature	N/A	Stand was treated in 2014 as part of sale # "63-047-01", "Grouse Kabob Jack". Seed tree.																															
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39	42220 - Natural Jack Pine	Poletimber Well	29.8	48	141-170	N/A	possibly harvest. some of the stand is falling out																															
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40	42120 - Planted Jack Pine	Poletimber Well	7.7	26	111-140	N/A																																
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41	4125 - Black, N. Pin Oak	Sawtimber Medium	14.5	70	1-50	N/A	Stand was treated in 2014 as part of sale # "63-047-01", "Grouse Kabob Jack". Seed tree.																															
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42	42120 - Planted Jack Pine	Sawtimber Well	11.2	68	111-140	N/A	Possibly left as retention or buffer along the ORV trail. Cut all jack pine. Mark leave trees along the orv route. Use trail spec.																																							
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43	42250 - Pine, Oak	Sawtimber Well	5.7	68	141-170	N/A																																								
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