



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63117

Entry Year 2023

Acreage: 2,275

County Missaukee

Management Area: Manistee River Valley

Revision Date: 2021-05-25

Stand Examiner: Thomas Peterson III

Legal Description:

T24N, R7W, Sections 20, 21, 28, 29, 32, 33

Identified Planning Goals:

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

Soil and topography:

Mostly Rubicon and Kalkaska sands. Terrain is rolling and hilly.

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

Mix of State and private parcels. Snowmobile trail runs north/south through compartment. Most residences in area are full time.

Unique Natural Features:

Rolling Hills and Steep Terrain.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Ham Creek Watershed / portions of creek in compartment. There are no lakes or other streams in compartment.

Wildlife Habitat Considerations:

Featured wildlife species are deer, bear, pileated woodpecker, and ruffed grouse. Management emphasis will be on maintenance of large, contiguous blocks of northern hardwoods for landscape composition, promotion of vertical structure and shrub layer with stands, retention of large diameter trees, and maintenance of aspen and openings

Mineral Resource and Development Concerns and/or Restrictions

Sections 20-21, 28-29, & 32-33, T24N-R7W, Missaukee County

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is roughly three miles away. There appears to be some good potential for sand & gravel within the compartment, but there is also abundant clay in the area, typical of moraine tills. The nearest oil & gas production, past or present, is more than three miles to the northeast, and there has been minimal exploration in and around the compartment. There is current leasing activity 2-3 miles to the east. It is far enough from the compartment that potential for oil & gas here is still considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

There is sufficient vehicular access throughout the compartment.

Survey Needs:

Stands 27 and stand 26 need survey before harvesting.

Recreational Facilities and Opportunities:

The Lake City Spur of the MissKal Snowmobile Trail passes through the compartment. Area provides for snowmobiling, hunting, color touring and camping

Fire Protection:

Access for wildfire suppression equipment is provided by local road system and forest roads. Urban Interface could be a concern near the private property holdings.

Additional Compartment Information:**The following reports from the Inventory are attached:**

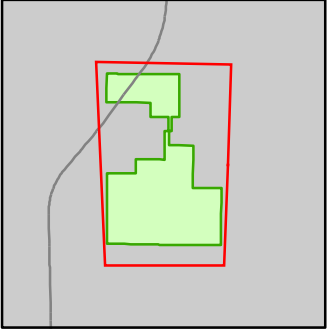
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

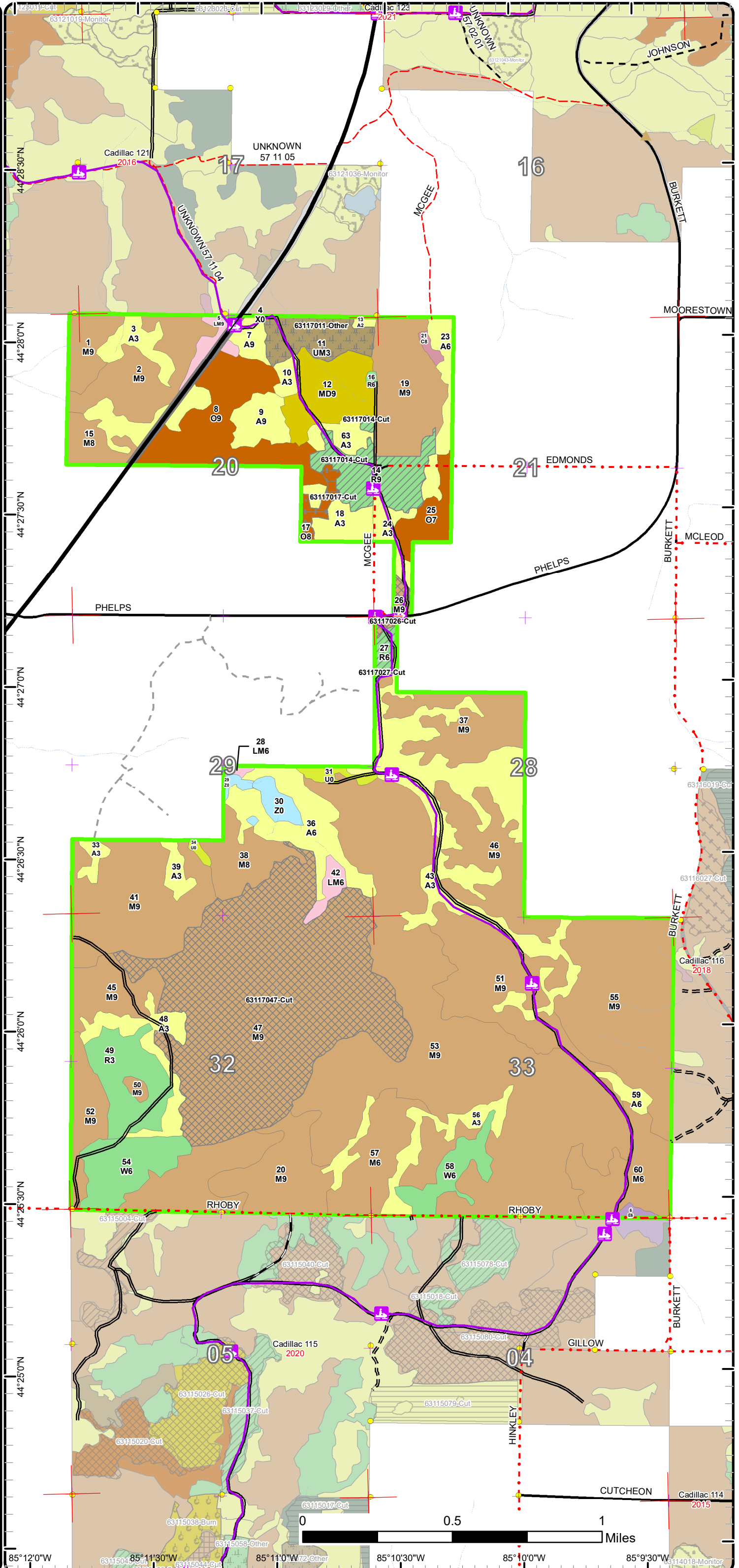
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 117
 T24N R07W Sec.
 20,21,28,29,32,33
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Manistee River Valley
 YOE: 2023
 Acres: 2275.3 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 6/15/2021
 Map Phase: Web-Post

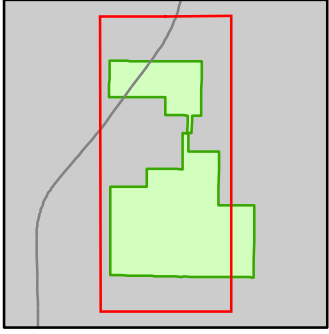


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Primary Forest Road
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- == Federal / State / County - Paved Road
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- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ⚡ Snowmobile Trails
- ⚡ Designated Snowmobile Trails
- Intermittent Stream
- ▭ Compartment Boundary
- ▭ Other Treatment - See Comments
- ▭ Selection (Group, Single Tree)
- ▭ Harvest, Overstory Removal
- ▭ Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
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- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water

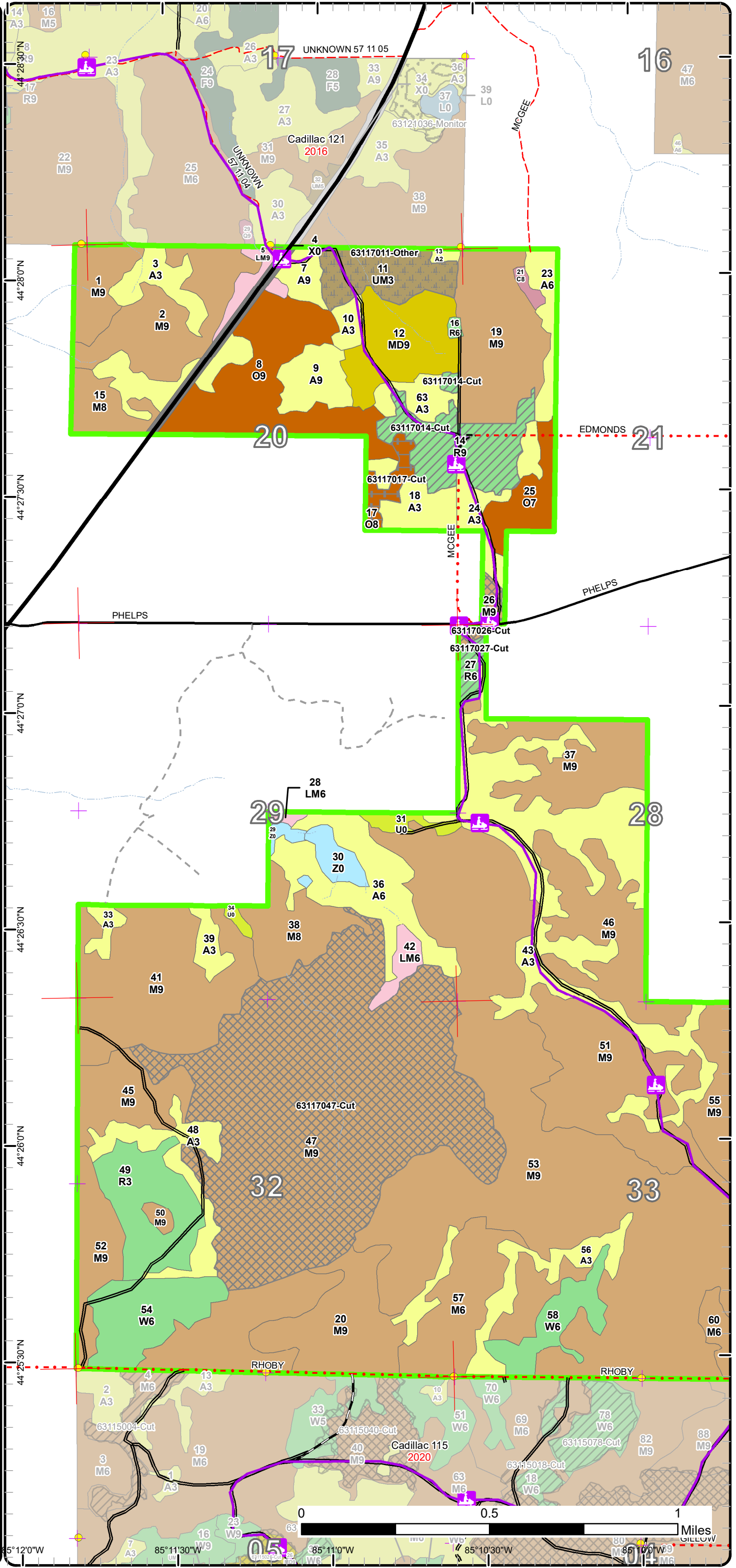


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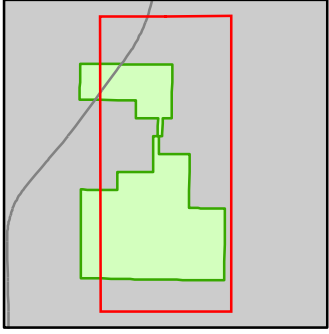


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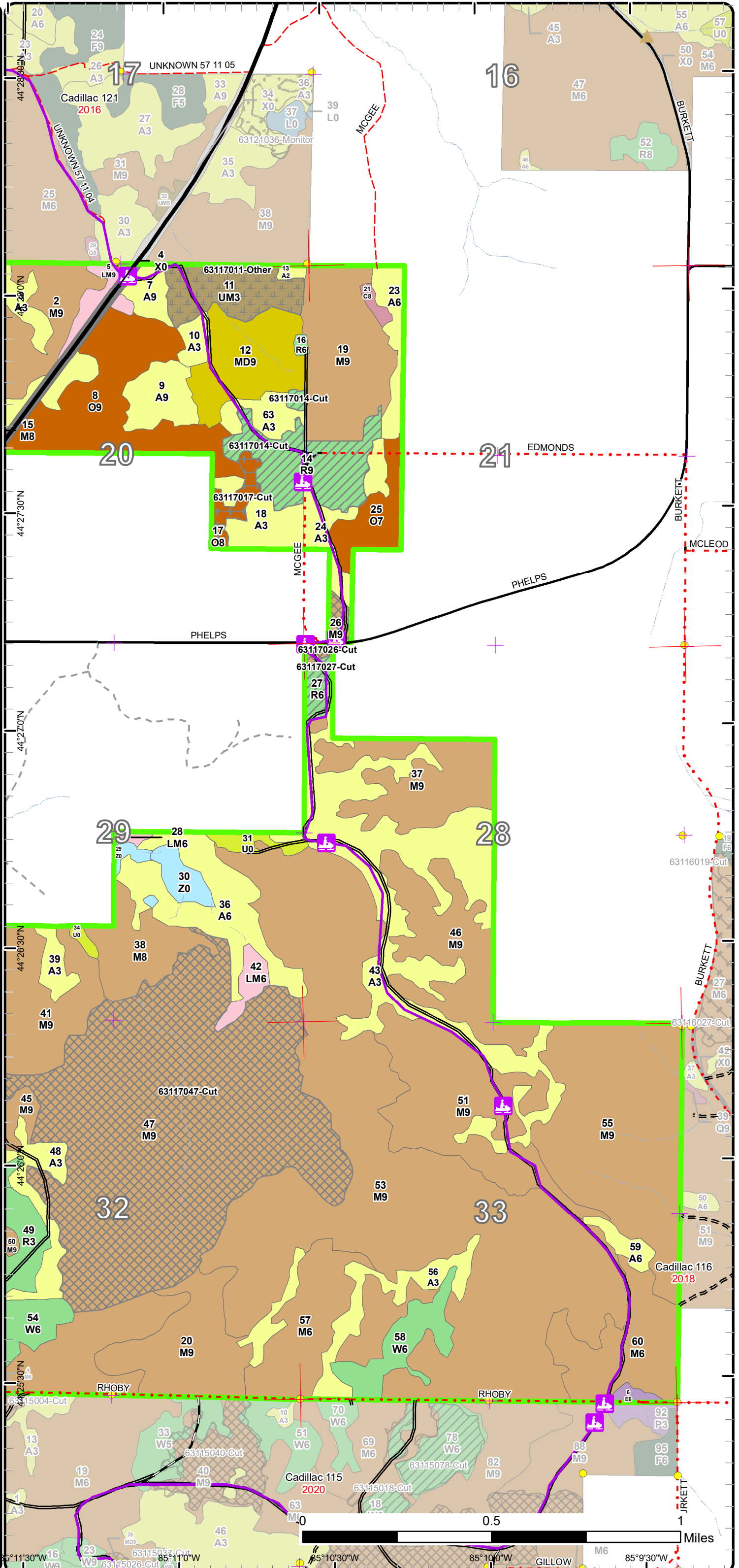


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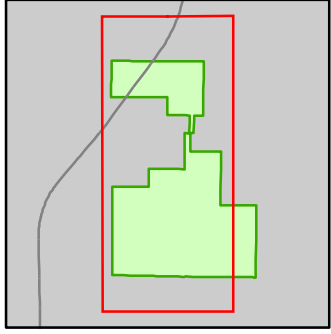


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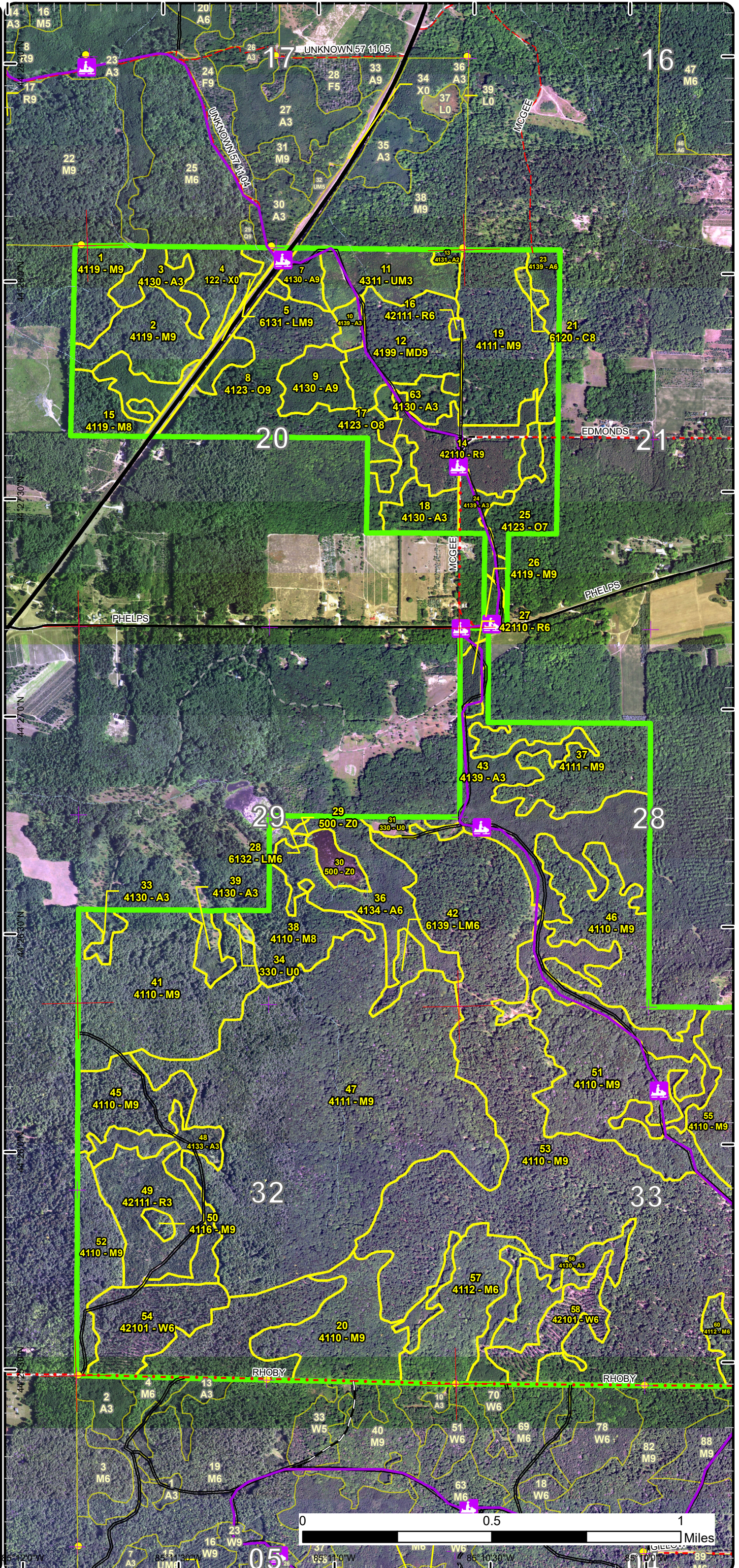


Stand Boundary Map

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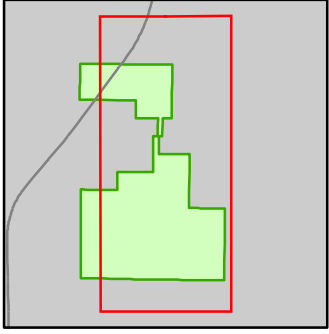


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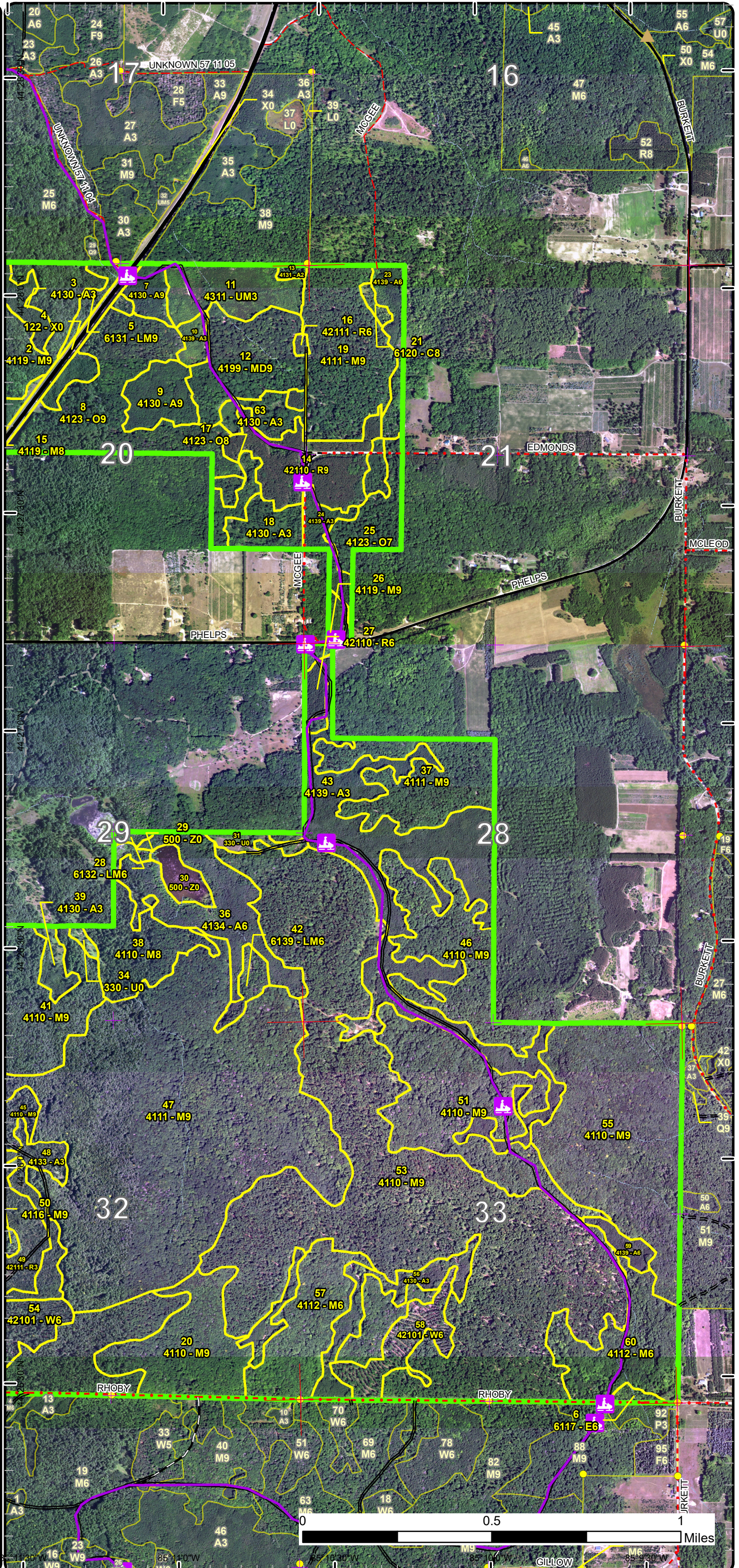


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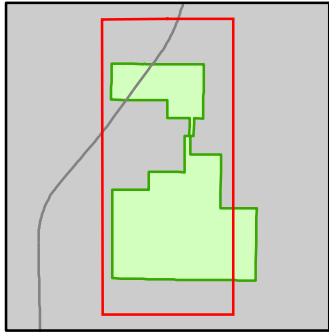


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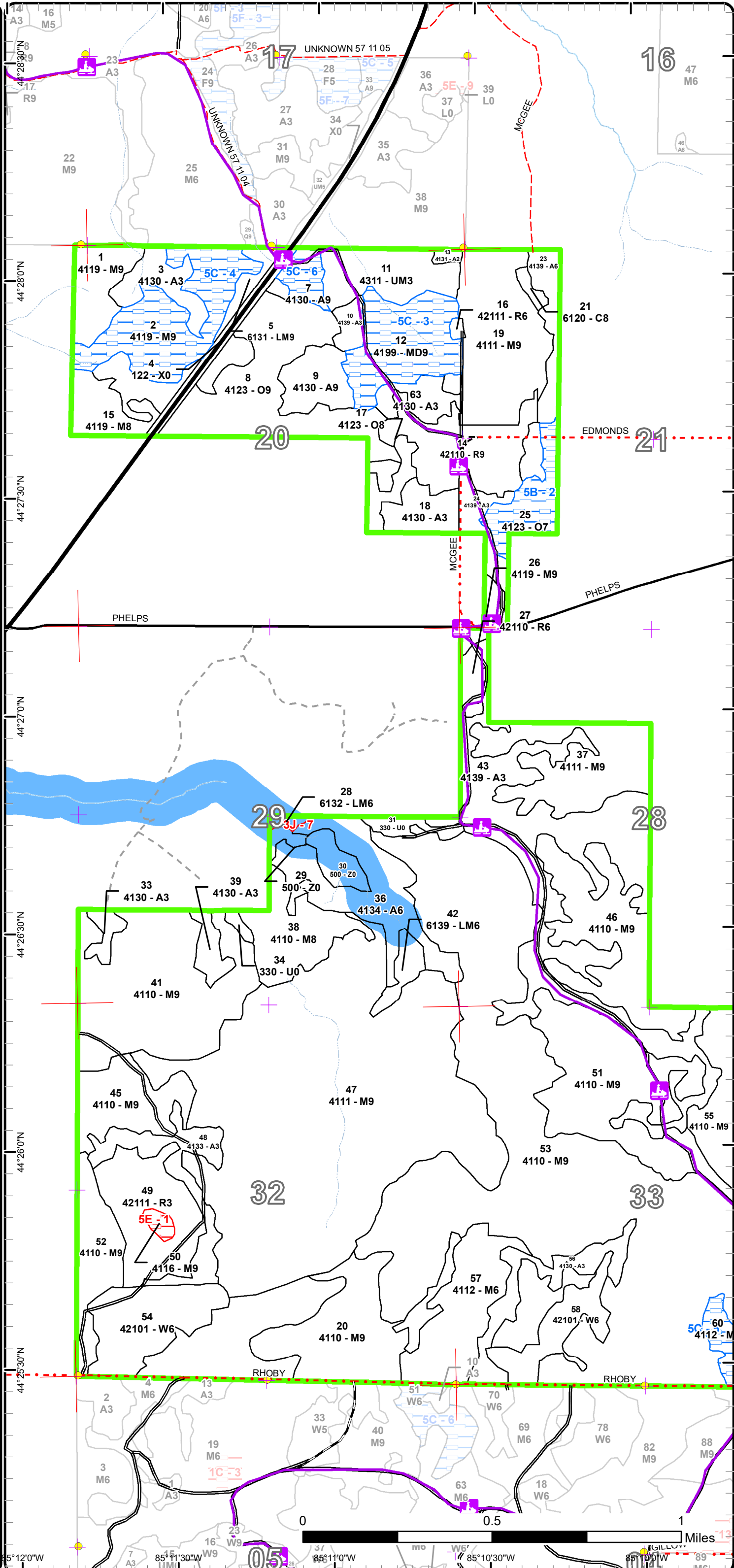


Special Conservation Areas

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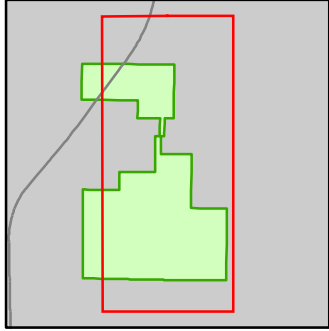


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

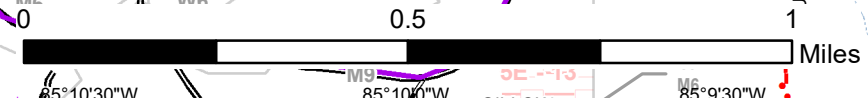
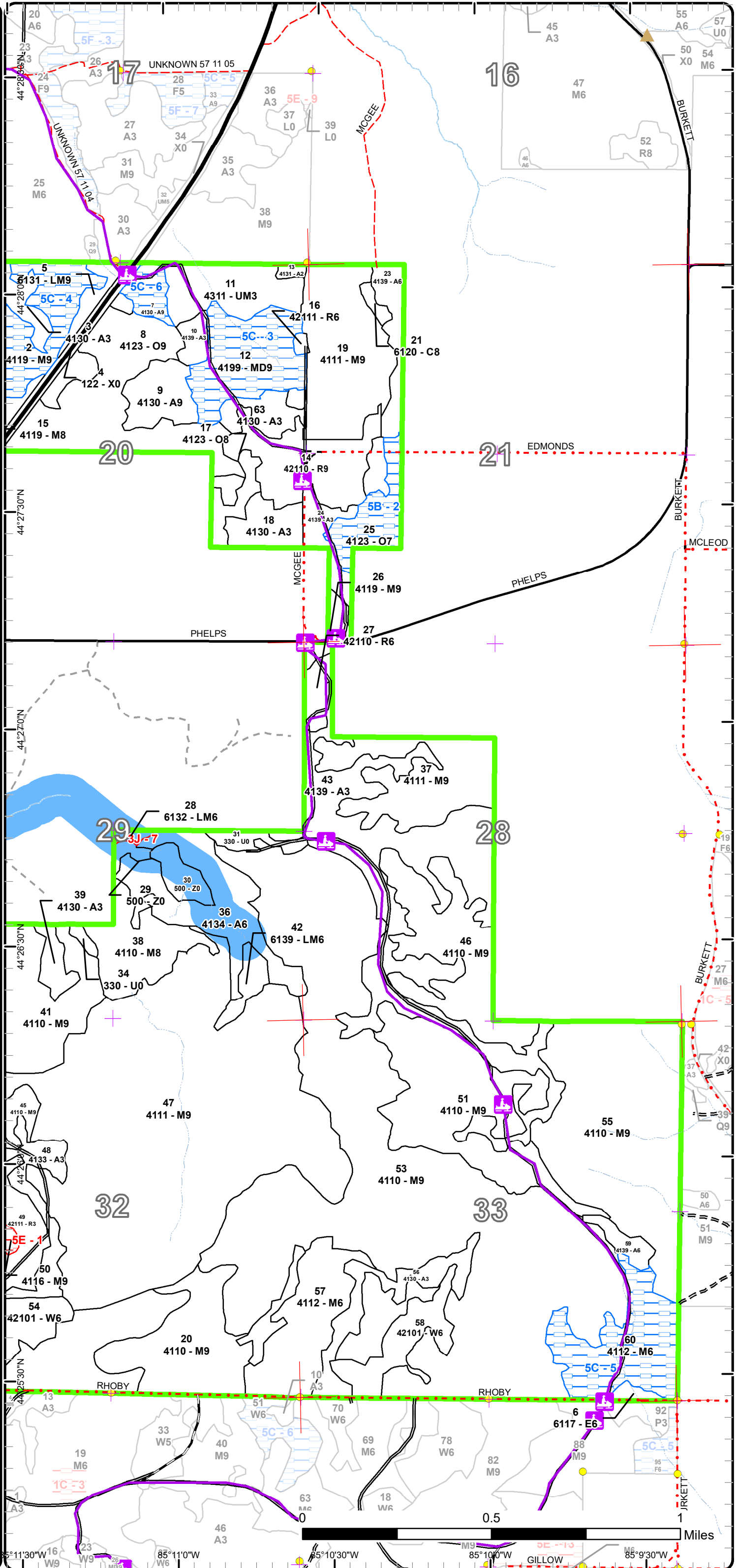


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55°11'30"W 16 W9 23 W9 85°11'00"W 85°10'30"W 85°10'00"W 85°9'30"W

Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 117 Year of Entry 2023

Thomas Peterson III : 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	28	21	242	64	0	9	0	0	0	0	0	0	0	0	0	0	0	363
Cedar	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	2
Low-Density Trees	8	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	8	0	0	0	8	0	2	0	0	0	0	0	18
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	41
Northern Hardwood	0	0	0	0	0	0	0	3	48	1318	88	0	0	0	0	0	0	20	1477
Oak	0	0	0	0	0	0	0	0	0	0	0	20	0	9	0	0	0	66	95
Red Pine	0	0	0	42	8	0	0	41	0	0	0	0	0	0	0	0	0	0	91
Upland Mixed Forest	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	60
Total	31	28	50	284	72	0	17	104	48	1359	96	23	2	9	0	0	0	86	2207



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 117

Total Compartment Acres: 2,275

Commercial Harvest - 381
 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
Northern Hardwood	0	325	0	0	0	0	0	0	0	325
Oak	0	0	0	0	0	9	0	0	0	9
Red Pine	0	0	0	0	0	47	0	0	0	47
Total	0	325	0	0	0	47	9	0	0	381

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	381	0	0	0	0	0	29	0	0	410
Next Step	0	0	0	0	0	325	0	0	0	325
Total	381	0	0	0	0	325	29	0	0	735



Stand Name	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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Proposed Treatments:

11	63117011-Other	29.0	4311 - Pine, Aspen Mix	Sapling Well	16	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
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Prescription Release red pine in this stand by hand. Cut all aspen, red maple, and jack pine. If there are any scattered oak in stand leave them.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

14	63117014-Cut	40.8	42110 - Planted Red Pine	Sawtimber Well	66	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand down to a Basal Area of 120. Some Rows might be tight. Mark for equipment maneuverability, remove poor quality trees, then mark trees to release crowns. Cut all trees that pose a threat to snowmobile trail in future. Use snowmobile spec to protect snowmobile Trail.

Next Step

Treatments:

Acceptable Not looking to regenerate stand at this time Thinning Red Pine Crown

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

17	63117017-Cut	8.6	4123 - Red Oak	Sawtimber Medium	120	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Remove overstory, protect regen as much as possible. Cut Regen off flush if damaged to promote more stump sprouting. Leave no retention due to stand being under 10 acres.

Specs:

Next Step

Treatments:

Acceptable Any mix of oak, aspen, red maple or other mixed species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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
26	63117026-Cut	6.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	90	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand down to a basal area of 80. Removing poor quality trees first then release crop trees. Cut all aspen, ironwood and beech in sale.</p> <p><u>Specs:</u> Cut all trees that pose a threat to snowmobile trail in future. Use snowmobile spec to protect snowmobile Trail.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, where aspen clones are located. Any mixture of red maple, sugar maple, basswood or oak is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
27	63117027-Cut	6.3	42110 - Planted Red Pine	Poletimber Well	36	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin red pine stand. Row spacing seemed adequate to cut 1 leave 2 rows. If logger is having difficulty maneuvering in sale, cut 2 leave 3 rows is acceptable. Cut all trees that pose a threat to snowmobile trail in future. Use snowmobile spec to protect snowmobile trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Not a regeneration cut</p> <p><u>Regen:</u></p> <p><u>Other</u> Survey Corner East Line?</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
47	63117047-Cut	318.6	4111 - S.Maple, Hard Mast Association	Sawtimber Well	85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin Stand down to average Basal area of 80. Concentrate on releasing sugar maple crop trees. Mark some larger oaks to create large canopy gaps. Stand is very hilly so mark paths up and down hills so that equipment can maneuver around. In addition to marking stand follow regeneration gap guidelines for northern hardwoods. If no desirable regeneration occurs use any method necessary to obtain desirable regeneration. This includes the following: herbicide, scarification, planting, or fencing of the regeneration gaps.</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> Sugar Maple, Basswood, Black Cherry and red oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Recommend tracked equipment when writing up sale. Use oak wilt spec to protect the nice red oak that are scattered throughout the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

Total Treatment 409.8
Acres Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit

Thomas Peterson III : Examiner

Compartment: 117

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	3J	5E
		With Condition	Not Available					
363	354	9	0	Aspen		9		
2	2	0	0	Cedar				
8	8	0	0	Low-Density Trees				
3	3	0	0	Lowland Deciduous				
17	15	0	2	Lowland Mixed Forest			2	
41	0	41	0	Mixed Upland Deciduous		41		
1544	1443	98	3	Northern Hardwood		98		3
95	75	20	0	Oak	20			
90	90	0	0	Red Pine				
29	29	0	0	Upland Mixed Forest				
11	11	0	0	Urban				
12	12	0	0	Water				
60	60	0	0	White Pine				
2,275	2,103	167	5	Total Forested Acres	20	148	2	3
	92%	7%	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	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention island for stand 49							
2	Available	5B: Maintain for regeneration purposes	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit

Compartment: 117

Thomas Peterson III : Examiner

Year of Entry: 2023

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	2G: Too wet (sensitive soils, does not include access issues)	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
1	4119 - Mixed Northern Hardwoods	Sawtimber Well	20.2	100	51-80	N/A	Stand has average basal area of 110. Stand has a lot of large red oak in it. Stand has old wildlife opening that has a large amount of Autumn Olive established in it. Stand has high amount of beech in understory at this time. 1995 - Thinned part of sale Schnauzer Hardwoods (Sale #63-002-04-01)																																																						
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2	4119 - Mixed Northern Hardwoods	Sawtimber Well	49.9	80	111-140	N/A	2021 - North Part of stand is more red maple and aspen. As you go South in stand you get into some decent sugar maple. Very Hilly Terrain. Large Oak Scattered Throughout stand. Beech is established in understory. Stand has a lot of poles in it. Average Basal Area of Stand is 116 at this time. Stand will be ready to be treated next year of entry. Due to lower quality of hardwoods in northern part of stand, restarting entire stand might be an option.																																																						
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3	4130 - Aspen	Sapling Well	33.3	27	Immature	N/A	2021 - Stand is growing good, stand has some pole size aspen at this time but majority of stand is still in sapling size at this time. 1994 - Stand clearcut part of M-66 Sale (Sale # 63-074-01)																																																						
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4	122 - Road/Parking Lot	Nonstocked	10.6			Managed Opening	m-66																																																						
5	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	7.8	90	81-110	N/A	Stand is a low wet land area that most likely has a seasonal creek flow through it during wet periods. Stand is a mix of lowland and uplands.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	2.8	60	Unspecified	N/A	Stand swapped from Non-Forested to Forested. wet
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole/Sapling	5	60	American Elm	Low	10 - 20 feet	Sapling
Yellow Birch	5	Pole	6		Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	5	Pole	5		Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen	30	Pole/Log	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	20	Pole/Log/Sap	8					

7	4130 - Aspen	Sawtimber Well	9.0	55	111-140	N/A	2021 -Stand is fully stocked aspen stand at this time. Stand has other mixed species as well. Stand shows no decline at this time, if plan needed more aspen this stand could be harvested this year of entry.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	8		Beech	Low	5 - 10 feet	Sapling
Red Oak	15	Log/Pole	12					
Bigtooth Aspen	65	Log/Pole	12	55				
White Pine	5	Pole/Log	8					

8	4123 - Red Oak	Sawtimber Well	66.4	80	111-140	N/A	2021 - Stand has a lot of Red oak in it. Stand is very hilly. Stands average BA is 120. No oak restart acres in the plan for this year hold another year of entry and consider clearcutting half this stand to give the oak a chance to regenerate. 1995 - Thinned part of sale Schnauzer Hardwoods (Sale #63-002-04-01)
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Log/Pole/XLog	14		Red Maple	Low	< 5 feet	Sapling
Red Maple	5	Log/Pole	12		Beech	Medium	< 5 feet	Sapling
Basswood	10	Log/Pole	12		Ironwood	Low	Variable	Sapling
Beech	10	Log/Pole	12					
Red Oak	60	Log/Pole/XLog	16	80				

9	4130 - Aspen	Sawtimber Well	17.6	38	111-140	N/A	Leave stand for 10 more years and then cut next year of entry. Stand Cut in 1983 Sale Name Pioneer 20 Block
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	10		Beech	Low	< 5 feet	Sapling
Red Maple	25	Log/Pole	10					
Red Oak	5	Log/Pole/XLog	16					
Bigtooth Aspen	65	Log/Pole	10	38				

10	4139 - Aspen, Mixed Deciduous	Sapling Well	5.8	16	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Sapling	2	16
Bigtooth Aspen	50	Sapling	2	16
Black Cherry	5	Sapling	2	
Red Oak	5	Log/Pole/XLog	14	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
11	4311 - Pine, Aspen Mix	Sapling Well	29.0	16	Immature	N/A	2021 Stand is a failed red pine planting. Aspen and red maple are over red pine in most of stand. There are only a few spots where the red pine has out competed competition. Stand is in transition point between sapling and pole at this time, with majority of trees being sapling at this time. Might be a good candidate for mechanical release if it can be put on books right away.																																																						
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12	4199 - Other Mixed Upland Deciduous	Sawtimber Well	40.8	81	141-170	N/A	2021 Stand has a lot of beech in understory. Stand is very hilly and steep in spots. Stand has average basal area of 150 2014 Treated with sale 63-031-13-01 -remove ash, beech and x log oak down to 70 basal area short wood only no chipping																																																						
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13	4131 - Aspen, Oak	Sapling Medium	1.7	18	51-80	N/A	Stand appears to be on old landing that has fully stocked stand around it. Could be an old homestead as well. there is one apple tree in this stand.																																																						
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14	42110 - Planted Red Pine	Sawtimber Well	40.8	66	171-200	N/A	Stand has a large amount of beech brush. Stand average BA is 188. Canopy is tight stand could be thinned. -2014 -Stand thinned in spring of 2014 Red Edmonds (Sale # 63-010-13-01) 1993- Stand was third row thinned Edmonds Red (Sale # 63-043-93-01)																																																						
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15	4119 - Mixed Northern Hardwoods	Sawtimber Medium	16.9	100	51-80	N/A	2021 - Stand was originally part of stand 1. Broke it off due stand having a much lower basal area and a much thicker understory. Stand average basal area is 50 at this time. 1995 - Thinned part of sale Schnauzer Hardwoods (Sale #63-002-04-01)																																																						
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16	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	1.2	37	111-140	N/A	2021 - Stand has been third row thinned Basal area is around 120 at this time.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	4123 - Red Oak	Sawtimber Medium	8.6	120	1-50	N/A	Stand appears to be an old oak species removal by the looks of understory under oak. Remove top of stand to get oak to regenerate.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		80	Log/Pole/XLog	14	120	Red Maple	
Red Maple		10	Log/Pole	12		Beech	
Bigtooth Aspen		10	Log/Pole	12		Black Cherry	
						Bigtooth Aspen	
						Density	
						Avg. Height	
						Size	
18	4130 - Aspen	Sapling Well	17.1	7	Immature	N/A	2021 - Stand if fully stocked aspen stand at this time. A lot of big oak left during past harvest. 2014 Sale was harvested. Stand cut as Part of Acorn Aspen (Sale Number 63-007-13-01)
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		15	Sapling	1	11		
Red Oak		15	Log/Pole	12			
Bigtooth Aspen		65	Sapling	1	7		
Beech		5	Sapling	1			
19	4111 - S.Maple, Hard Mast Association	Sawtimber Well	58.3	80	81-110	N/A	2021 - Stands Average basal area of 108. Stand has nice sugar maple crop trees. Consider thinning next year of entry if Basal area is greater than 120 at that time or wait till it is greater then 120. Stand thinned in spring 2015 - (New Baby Hardwoods 63-026-13-01)
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		50	Log/Pole/XLog	14	80	Sugar Maple	
Basswood		15	Log/Pole/XLog	14		Beech	
Red Oak		15	Log/Pole/XLog	16		Ironwood	
Black Cherry		5	Log/Pole	10			
Red Maple		10	Log/Pole	10			
Beech		5	Log/Pole	12			
						Density	
						Avg. Height	
						Size	
20	4110 - Sugar Maple Association	Sawtimber Well	50.3	88	81-110	N/A	2021 Stands average ba is sitting around 108 at this time. Stand is log stand with undesirable advanced regeneration in it. Should be able to thin stand next year of entry if stand hits 120.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		55	Log/Pole	12	88	Red Maple	
Basswood		15	Log/Pole	10		Ironwood	
Red Maple		5	Log/Pole	12		Beech	
Beech		10	Log/Pole	10			
Red Oak		5	Log/Pole/XLog	12			
Black Cherry		10	Log/Pole	10			
						Density	
						Avg. Height	
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21	6120 - Lowland Cedar	Sawtimber Medium	2.5	105	81-110	N/A	2021 - Stand is very wet. Stand has a lot of cedar in it.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Log/Pole	12		Red Maple	
Yellow Birch		20	Log/Pole	12		Alder	
Northern White Cedar		60	Log/Pole	10	105		
						Density	
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23	4139 - Aspen, Mixed Deciduous	Poletimber Well	14.0	28	Immature	N/A	2021 - Stand is at stage between sapling and pole size, with greater percentage of aspen trees being pole at this time.																																														
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24	4139 - Aspen, Mixed Deciduous	Sapling Well	16.1	27	Immature	N/A	2021- Stand if fully stocked stand of aspen at this time. Aspen saplings are starting to get to pole size at this time should be an A6 next year of entry. Lots of oak left during past harvest. 1994 - McGee Road Aspen (Sale # 63-004-94-01)																																														
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25	4123 - Red Oak	Sawtimber Poor	19.7	100	1-50	N/A	2021 - Stand still has at least 20 -50 BA of oak scattered across it with a fully stocked Advanced Regeneration. Advanced Regeneration is too established to remove the rest of the oak at this time. 2014 overstory removal Treated with sale 63-031-13-01 1995 Stand was Shelterwood Cut. Dump Sale (Sale # 63-007-93-01)																																														
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26	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.5	90	111-140	N/A	Stand is small acreage and snowmobile trail runs through stand. Stand also has hilly terrain.																																														
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27	42110 - Planted Red Pine	Poletimber Well	6.3	36	171-200	N/A	2021 Stand has never been third row thinned. Crowns are tight and Average basal area is greater then 170. Stand has good row spacing so cut 1 leave 2 spacing should work.																																														
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28	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	1.9	110	81-110	N/A	wet																																														
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29	500 - Water	Nonstocked	2.8			No	Ham Creek flows through stand.																																																								
30	500 - Water	Nonstocked	9.4		Immature	No	Stand appears to be water. Lots of snow but water on edges of stand at time of inventory. Stand has dead snags in it. Stand is part of Ham Creek Water Shed.																																																								
31	330 - Low-Density Trees	Nonstocked	6.1			No																																																									
33	4130 - Aspen	Sapling Well	5.2	16	Immature	N/A	2021 Stand is fully stocked sapling aspen stand. There is one open area in stand not big enough to delineate out of stand. 2004 Stand Clearcut as part of Addmore Hardwoods (Sale # 63-015-03-01)																																																								
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34	330 - Low-Density Trees	Nonstocked	1.9		Unspecified	No	Stand has a few scattered black cherry's State two track dead ends at gate going into private property.																																																								
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36	4134 - Aspen, Spruce/Fir	Poletimber Well	46.6	35	81-110	N/A	Stand is a fully stocked stand with Balsam Fire in understory. North and wet part of stand are extremely wet and may not be able to be harvested. Ham Creek runs through Northwest corner of stand, so ham creek and stand 30 will all need buffers when doing harvest in the future.																																																								
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37	4111 - S.Maple, Hard Mast Association	Sawtimber Well	50.0	81	81-110	N/A	2021 - Stands Average Basal Area of 92 at this time. Stand has a lot of nice crop trees and is higher quality. Grow stand out to basal area of 120 then consider thinning stand again. Stand Treated with sale 63-031-13-01. Single Tree selection																																																								
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38	4110 - Sugar Maple Association	Sawtimber Medium	30.6	80	51-80	N/A	2021. Parts of stand are more like a black cherry shelterwood then your typical hardwood stand. Other parts of stand is like typical norther hardwood stand. Stand has undesirable understory at this time. Average BA in this stand is 71. 2015 Stand Treated with sale 63-031-13-01 remove all aspen, ironwood and mark rest of stand down to 70 favoring black cherry,																																														
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39	4130 - Aspen	Sapling Well	7.5	16	Immature	N/A	2021 Stand is fully stocked sapling aspen stand 2004 Stand Clearcut as part of Addmore Hardwoods (Sale # 63-015-03-01)																																														
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41	4110 - Sugar Maple Association	Sawtimber Well	95.1	85	81-110	N/A	2021 Stand is currently sitting as a basal area of 96. Stand has areas that have solid poles located throughout them. Overall stand is log size. Lots of undesirable advanced regeneration in this stand. 2004 Stand Thinned Addmore Hardwoods (Sale # 63-015-03-01)																																														
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42	6139 - Mixed Lowland Forest	Poletimber Well	7.5	50	111-140	N/A	2021 Stand is fully stocked with aspen under Tamarack, Stand will might convert to lowland aspen stand next year of entry.																																														
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43	4139 - Aspen, Mixed Deciduous	Sapling Well	116.4	26	Immature	N/A	2021 - Stand is at stage between Pole and Sapling, greater percentage of trees at this time are sapling size. Stand is fully stocked. Sale Was Completed in 1995 Rhoby Aspen (Sale # 63-052-93-01)																																														
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45	4110 - Sugar Maple Association	Sawtimber Well	31.6	85	51-80	N/A	2021 - Sale has open pockets within it. Sale average basal area at this time is around 76. Stand has no desirable species in its understory at this time. Stand has turned over to a log stand with poles still in it. Let stand sit next couple years of entry till it hits BA of 120, then consider thinning. 2015 - Sale Treated with sale number 63-031-13-01 remove all aspen, ironwood and ash.																																														
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46	4110 - Sugar Maple Association	Sawtimber Well	56.5	88	81-110	N/A	2004 Stand Thinned Addmore Hardwoods (Sale # 63-015-03-01) Decent quality hardwood stand just into log size overall, still pole size maple in spots. Good spacing still from last thinning. Hilly terrain.																																																
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47	4111 - S.Maple, Hard Mast Association	Sawtimber Well	318.6	85	111-140	N/A	2021 - Stands Average Basal Area is 127 at this time. Stand has wide range of basal areas from 60 to 160. This appears to dependent on beach and ash removal from previous cut. Stand is very hilly some areas might be to steep to harvest. 1995 - Stand was thinned 1999 Extreme Hardwoods (Sale # 63-021-95-01)																																																
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48	4133 - Aspen, Mixed Pine	Sapling Well	26.9	26	Immature	N/A	2021 - Stand 48 was cut out of stand 49. Stand 48 has characteristics of planted pine, but the aspen and other mixed deciduous species have out competed the remaining red pine in this stand at this time.																																																
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49	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	41.8	26	Immature	N/A	2021 - Planted red pine various degrees of success across stand. Some areas red pine, other areas mixed deciduous trees are current canopy.																																																
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50	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	2.9	60	81-110	N/A	This is retention island for stand 49.																																																
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51	4110 - Sugar Maple Association	Sawtimber Well	81.4	95	81-110	N/A	2021 - Stands current ba is at 108. Stand has some decent terrain in it rolling hills. 1 point had higher ba but was on slope that might have been to steep to thin last time around. Stand has undesirable advanced regeneration in understory. Should be able to thin stand next year of entry or when stand hits ba of 120.																																																												
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52	4110 - Sugar Maple Association	Sawtimber Well	27.6	85	81-110	N/A	2021 - Stands average basal area is 106. Grow stand out till it hits basal area of 120 then considering thinning stand again. 1995 - Stand was thinned 1999 Extreme Hardwoods (Sale # 63-021-95-01)																																																												
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53	4110 - Sugar Maple Association	Sawtimber Well	416.4	88	51-80	N/A	Stand thinned in 2014/2015.. 117 Hardwoods Sale # 63-002-13-01. Large block of hilly hardwood of medium to good quality hardwood. Stand just pushed into log size overall still portions of stand more pole size. Beech and ash targeted heavily in last thinning only few beech were left.																																																												
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54	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	37.8	60	111-140	N/A	2021 Stand thinned less then 6 years ago, Basal area is not there to thin again and canopy still has a lot of room to grow. Stand Row thinned in 2015 with Rhoby White Sale (Sale number 63-021-13-01)																																																												
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55	4110 - Sugar Maple Association	Sawtimber Well	125.7	88	51-80	N/A	Stand thinned under Crazy RoBurk Hardwoods Sale # 63-027-13-01 stand Harvested 2017. Overall good quality stand. Stand decreases in quality in the south end. Very nice cherry logs in stand, beech component still solid with limited white wash noticed.																																																												
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56	4130 - Aspen	Sapling Well	29.0	26	Immature	N/A	2021 - Stand is stage between sapling and pole at this time. Majority of trees still being sapling at this time. Next year of entry stand should be fully stocked A6. 1995 - Sale Was Completed in 1995 1993 - Rhoby Aspen (Sale # 63-052-93-01)																																																																								
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57	4112 - Maple, Beech, Cherry Association	Poletimber Well	57.5	85	81-110	N/A	2021 - Stands average BA is around 84. Stand has saw logs in it at this time but does not met the threshold to be a log stand yet. Stand has undesirable advanced regeneration under it. 2004 Stand Thinned Addmore Hardwoods (Sale # 63-015-03-01)																																																																								
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58	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	22.3	60	111-140	N/A	2021 Stand thinned less then 6 years ago, Basal area is not there to thin again and canopy still has a lot of room to grow. Stand Row thinned in 2015 with Rhoby White Sale (Sale number 63-021-13-01)																																																																								
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59	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.3	26	Immature	N/A	2021 - Stand is fully stock pole size aspen stand 1995 Stand was final harvested. as part of Rhoby Aspen (Sale # 63-052-93-01)																																																																								
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60	4112 - Maple, Beech, Cherry Association	Poletimber Well	47.8	75	111-140	N/A	Lowest quality block of hardwood in this section of the compartment. More soft maple then other stands, with snow trail running through the middle. Few red and white pine along main road.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63	4130 - Aspen	Sapling Well	11.0	7	Immature	N/A	
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2021 - Stand if fully stocked aspen stand at this time. A lot of big oak left during past harvest.
2014 Sale was harvested. Stand cut as Part of Acorn Aspen (Sale Number 63-007-13-01)

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	65	Sapling	1	7
Red Maple	15	Sapling	1	
Beech	5	Sapling	1	
Red Oak	15	Log/Pole/XLog	16	