



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63022

Entry Year 2026

Acreage: 1,890

County Lake

Management Area: Cadillac Moraines

Stand Examiner: James Park

Legal Description:

T18N R11W, Sections 15, 16, 21, 22, 27

Identified Planning Goals:

Vegetation management in the Lake county Moraines management area (MA) (Figure 4.30.1) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the age class distributions of aspen and regenerating red pine and oak.

Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within this 10-year planning period are increased recreational pressure (including illegal off-road vehicle impacts) and the need to successfully regenerate and establish oak.

Soil and topography:

Soils include Montcalm Graycalm as well as Rubicon. Overall, the soils are excessively drained. Topography is rolling to very hilly.

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

Lands to the west are part of a large block of contiguous state land. The surrounding parcels consist mainly of forested properties forty to eighty acres in size, with the exception of a subdivision and block of small 5 to 10 acre lots in the north half of section 28.

Unique Natural Features:

This compartment has the potential for occurrences of box turtle, red-shouldered hawk and goshawk, as well as potential for pine tree cricket in white pine stands.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment contains four alfalfa or rye wildlife openings. These openings should be buffered from treatments in adjacent stands, and any adjacent treatments should prevent expansion of autumn olive. Generally, wildlife cover type goals are no net loss in aspen or oak acres, to protect mast bearing shrubs, to create brush piles adjacent to wetlands, to preferably leave retention in the form of islands or corridors, and to provide coarse woody debris. Promote a mix of cover types by seeking opportunities to manage for non-forested openings or barrens habitat, older age classes and mixed age stands where possible and appropriate. Featured species of special interest are grouse, woodcock, turkey and deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse textured till. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Pennsylvanian Grand rive and Saginaw formations. The Saginaw is quarried for clay in brick making. A gravel pit is located in section 33 and potential is considered good. The nearest oil and gas production is at the Reed city Field located two miles to the east.

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:

Survey needs requested via site condition.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within this compartment. There are numerous areas suitable for dispersed camping, and hunting.

Fire Protection:

Most of the compartment has good access. Topography of the area may cause some issues with wildfire control. Dispersed camping can be a cause of a wildfire in this compartment. Urban interface is an increasing concern in the compartment.

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

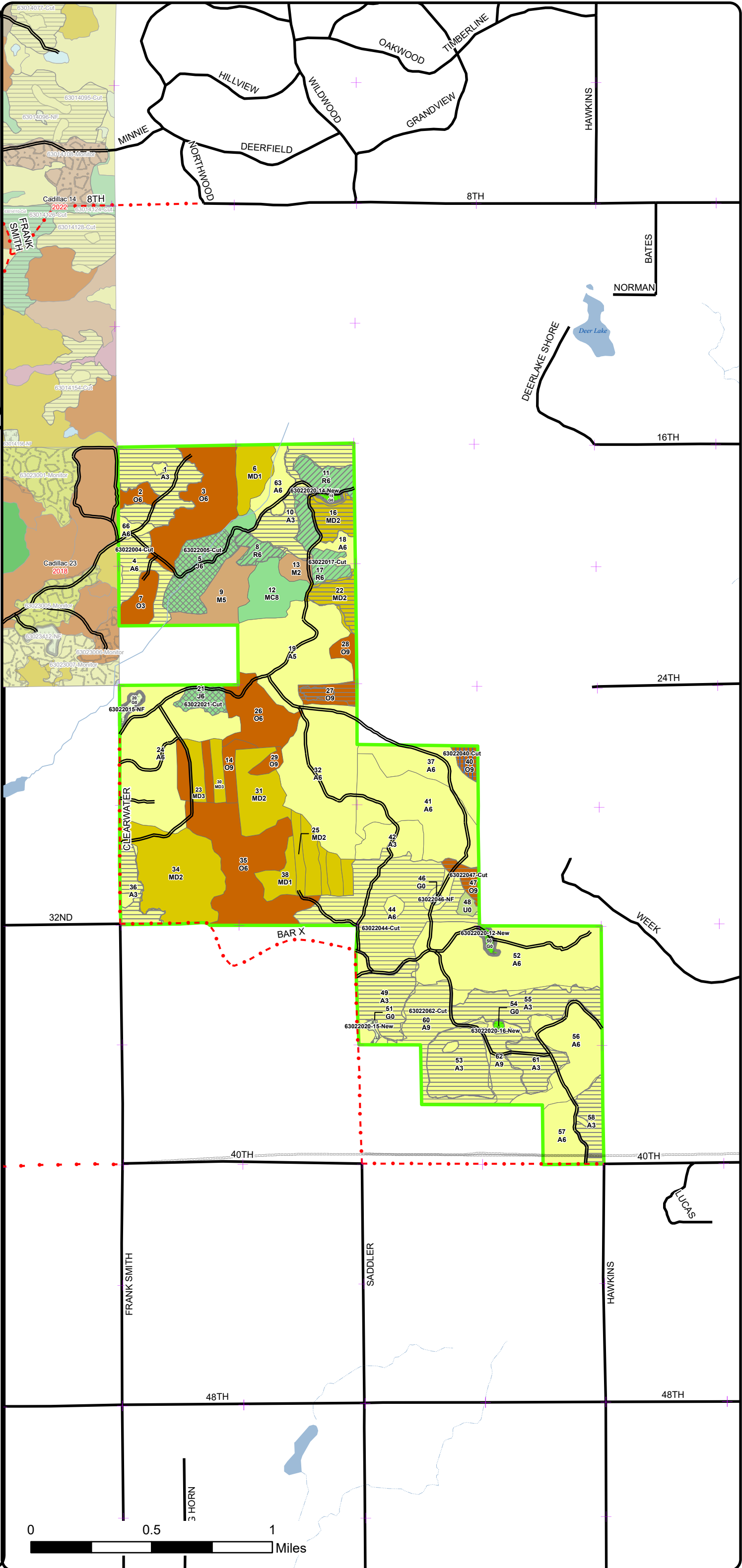
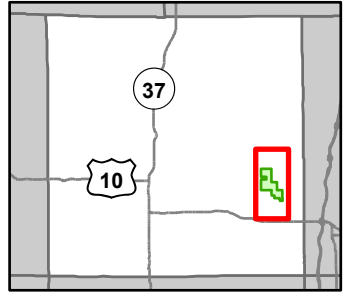
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

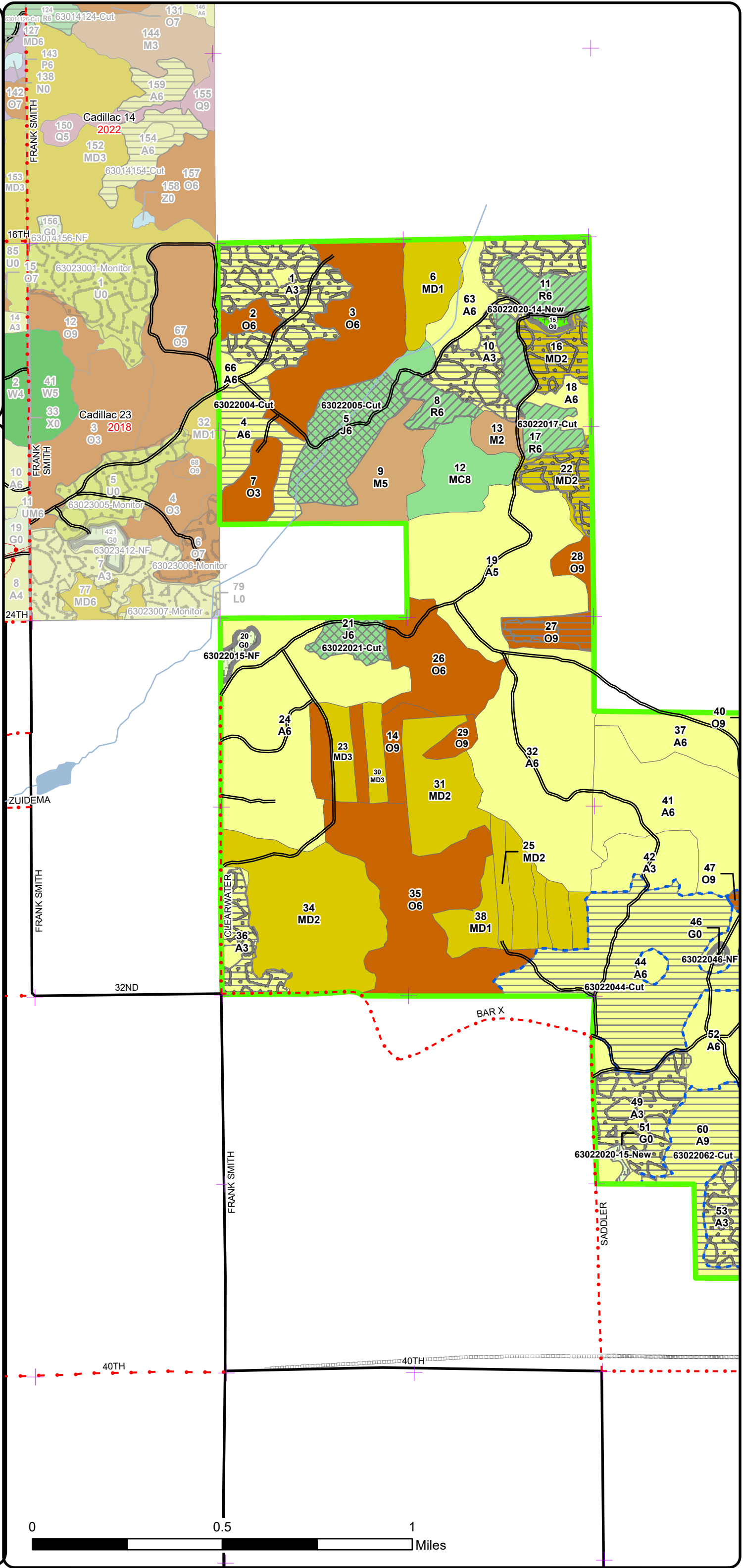
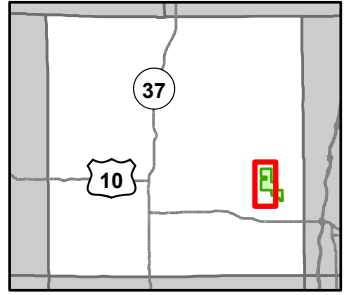
Compartment: 63022
 T18N, R11W, Sec: 16, 21, 22, 27
 County: Lake
 Unit: Cadillac
 Mgmt Area: Cadillac Moraines
 YOE: 2026
 Acres: 1889.7 GIS Calculated
 Examiner: James Park
 Map Revised: 7/18/2024
 Map Phase: Web Post



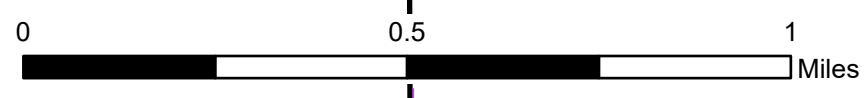
- ⊕ Remonumented Section Corners
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- - - County - Gravel Road
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Pipeline
- Counties
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Other Treatment - See Comments
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub

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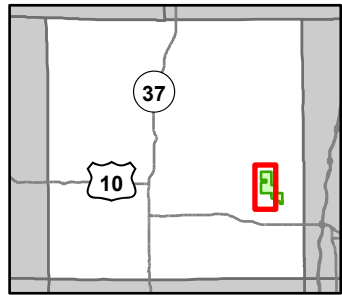


- ORV License & Trail Permit
- - - - Designated ORV Route
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- Counties
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- · - · Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
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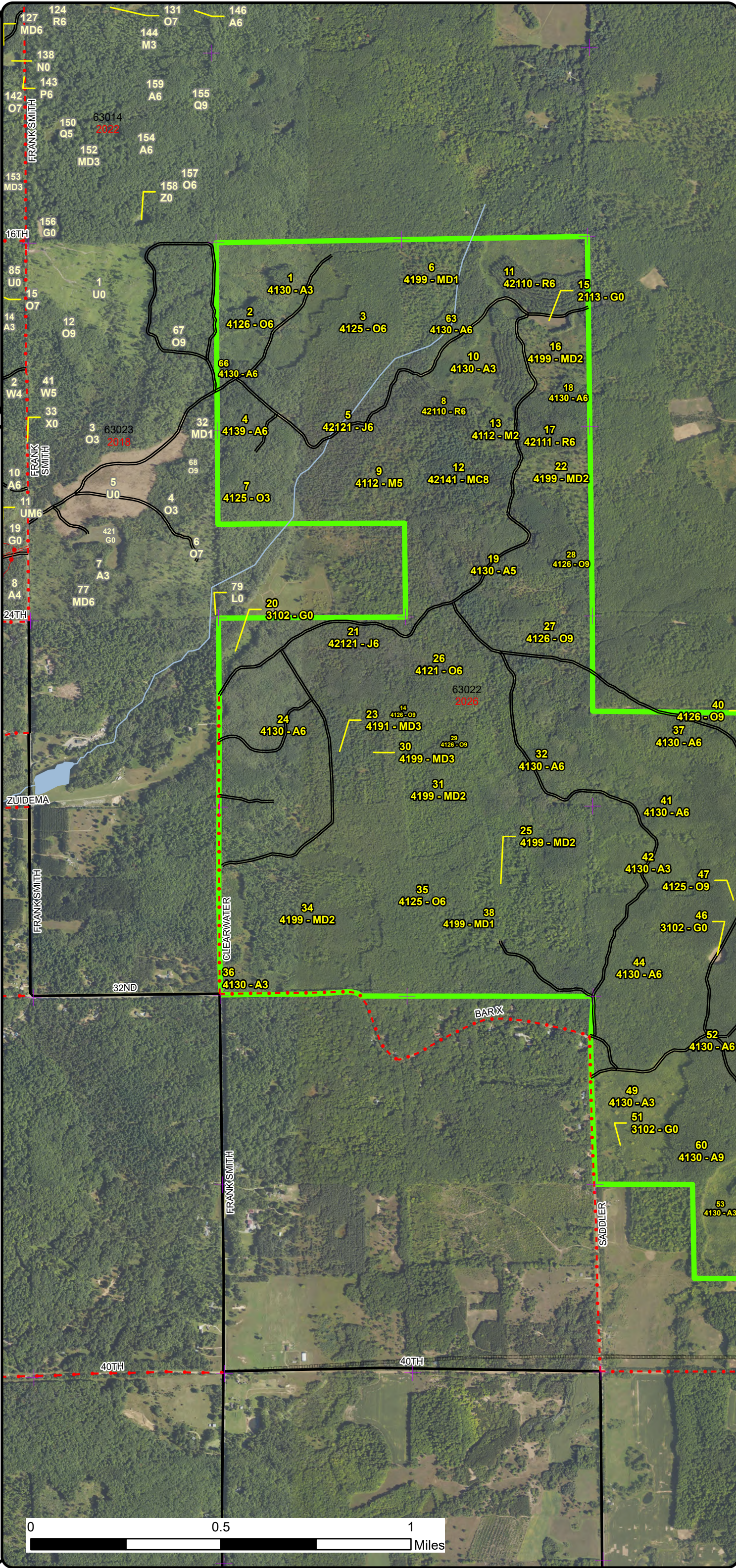


Stand Boundary Map

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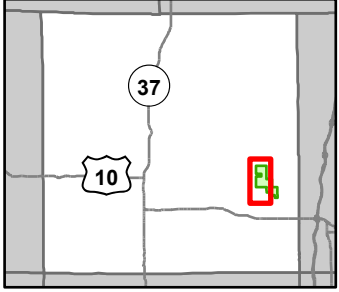


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- State Forests

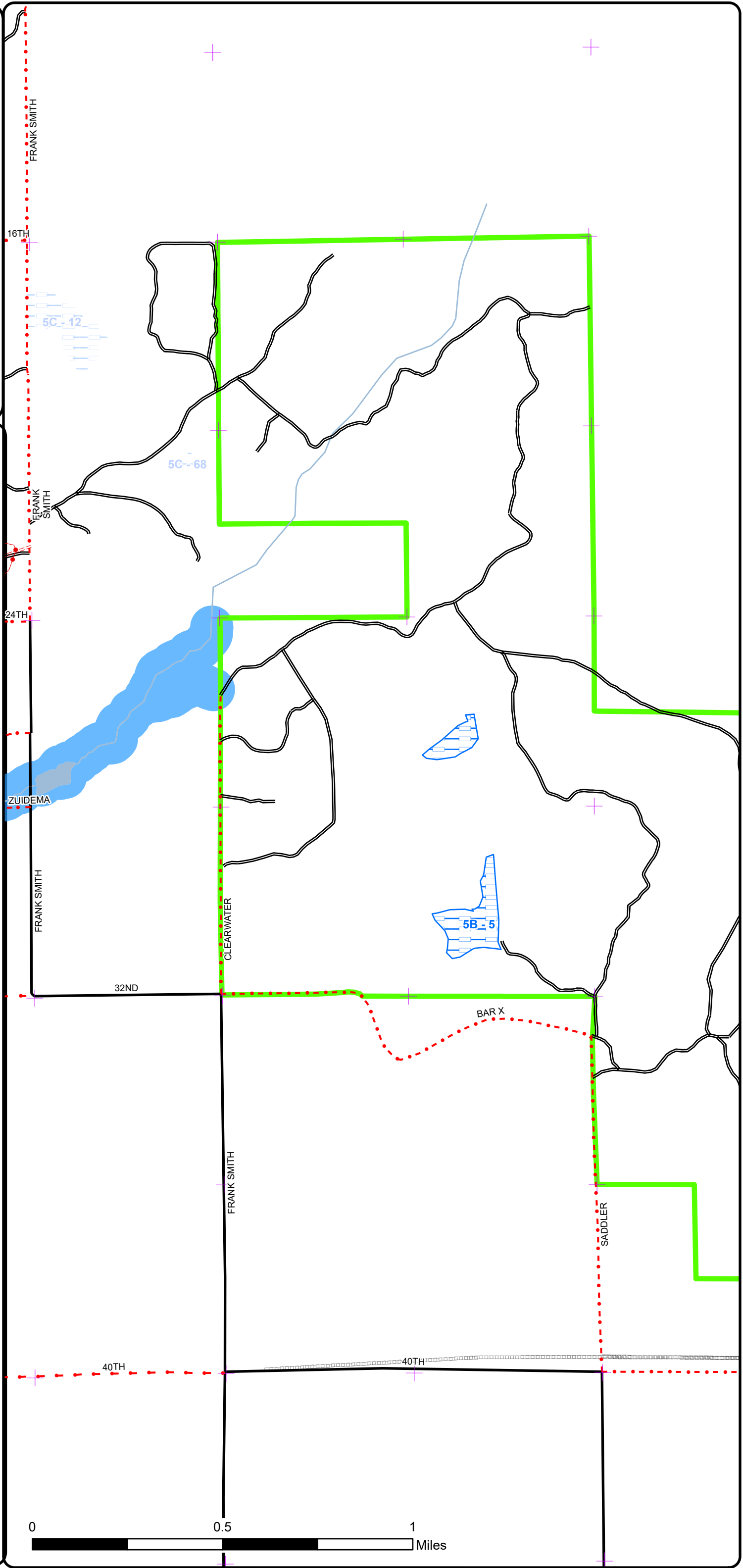


Special Conservation Areas & Site Conditions Map

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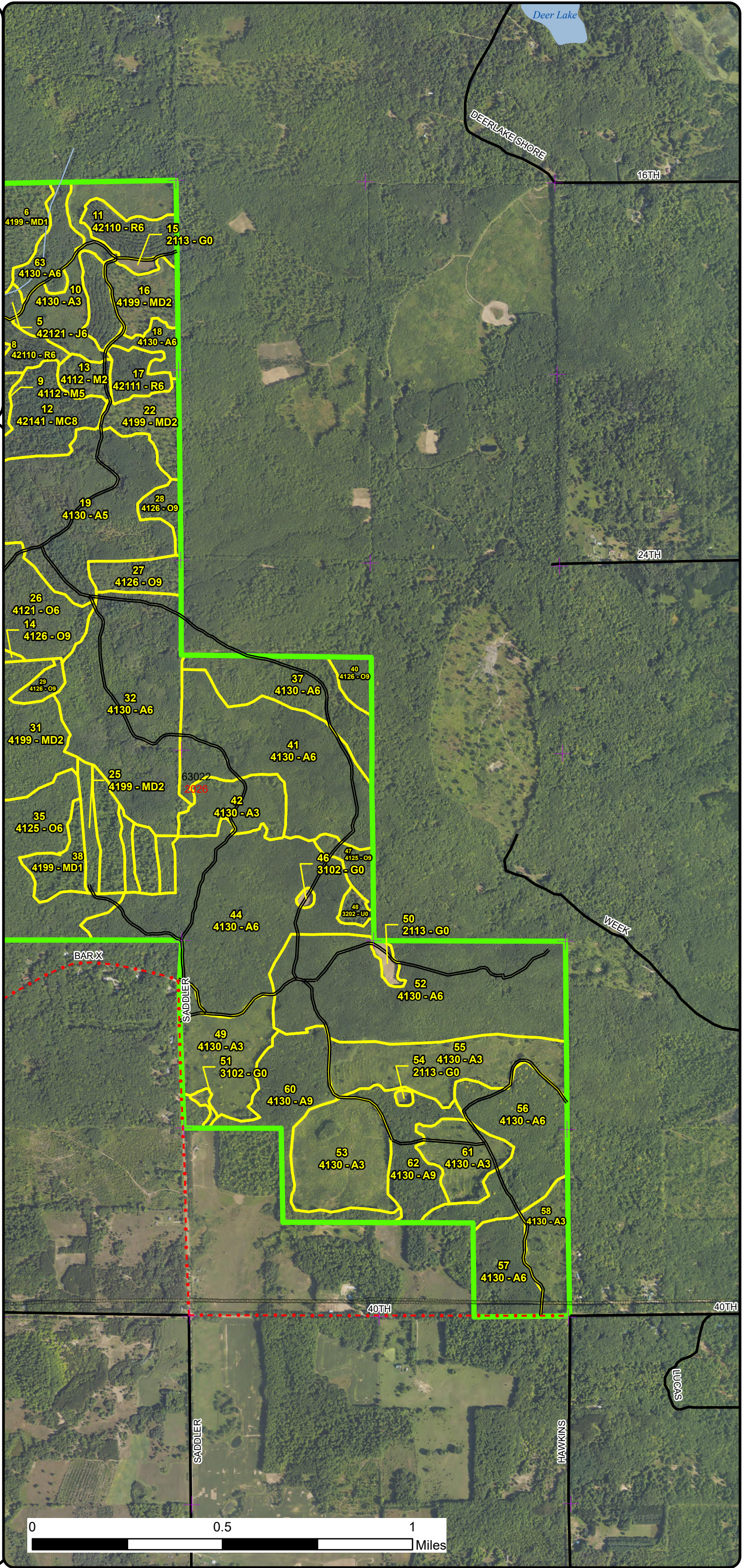
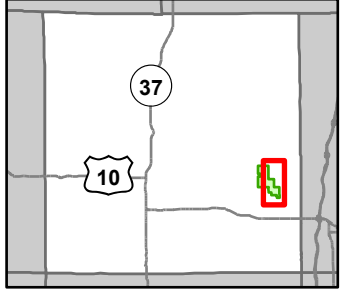


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- Pipeline
- - - - - Counties
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site
- 2G: Too wet (sensitive soils, does not include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

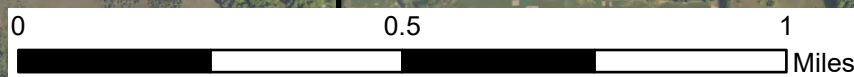


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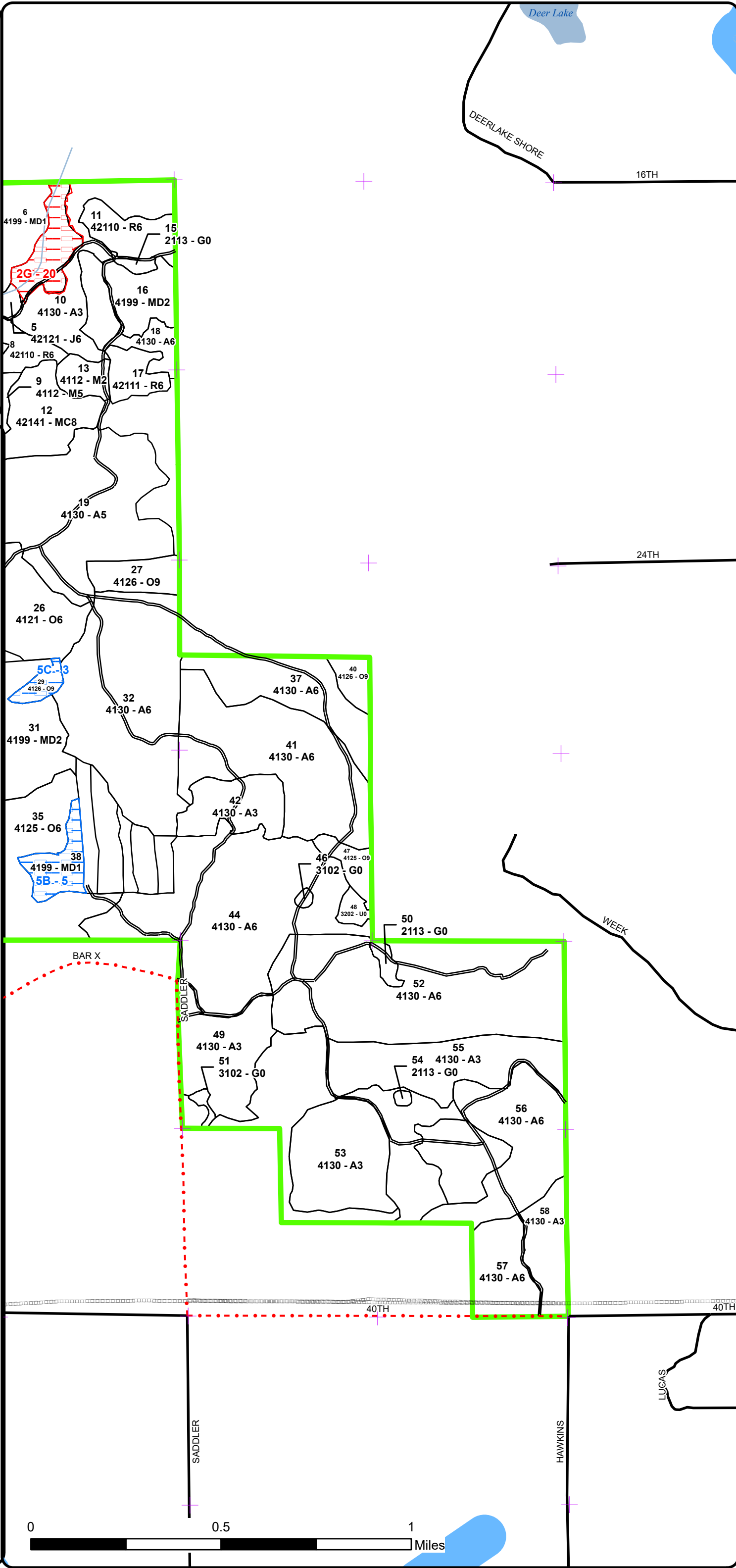
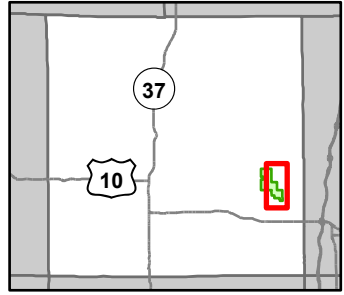


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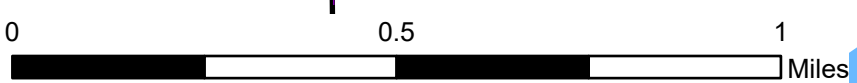


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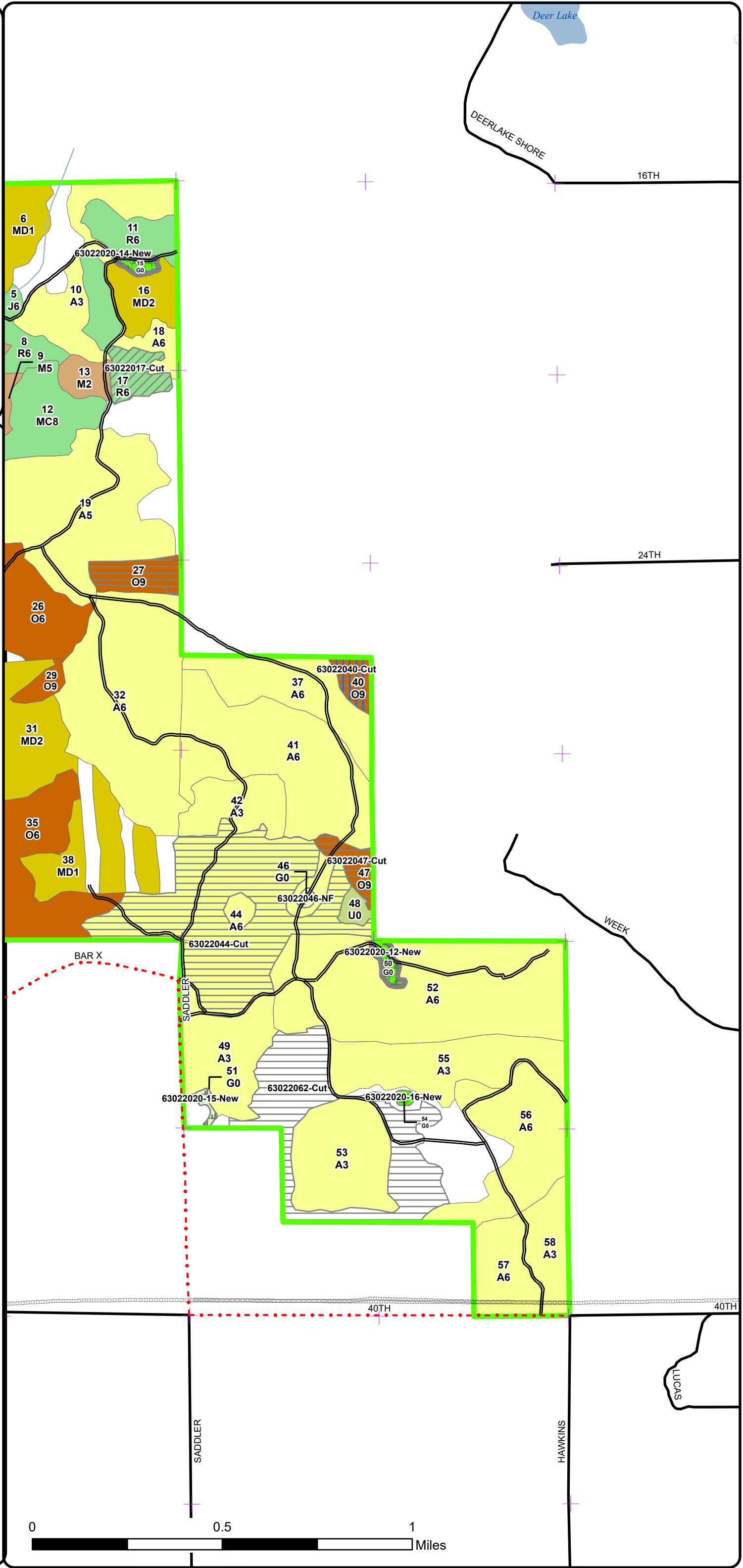
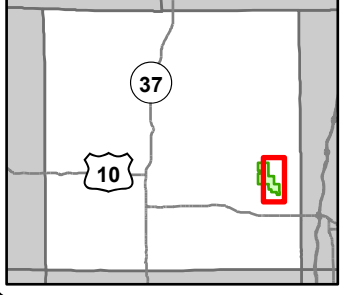


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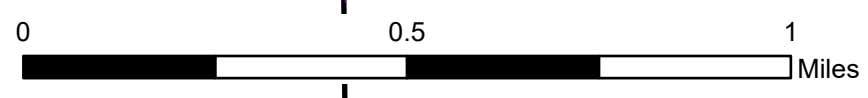


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Report 1 – Total Acres by Cover Type and Age Class



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+	Uneven-Aged	Total
Aspen	0	284	24	226	273	138	204	28	0	0	0	0	0	0	0	0	0	0	1176
Cropland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Jack Pine	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0	0	0	0	56
Mixed Upland Deciduous	0	36	136	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	242
Northern Hardwood	0	0	9	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Oak	0	0	0	16	0	71	39	0	90	0	13	51	0	0	0	0	0	0	280
Planted Mixed Pines	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	29
Red Pine	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	49
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	18	320	169	344	273	209	377	28	90	0	13	51	0	0	0	0	0	0	1890



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 22

Total Compartment Acres: 1,890

Commercial Harvest - 88
 Harvests with Site Condition - 186
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	197	0	0	0	0	0	0	0	0	197
Jack Pine	0	51	0	0	0	0	0	0	0	51
Oak	8	0	0	7	0	0	0	0	0	16
Red Pine	0	0	0	0	0	11	0	0	0	11
Total	205	51	0	7	0	11	0	0	0	274

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	274	0	0	0	0	0	0	14	0	287
Next Step	0	0	0	0	0	0	263	0	0	263
Total	274	0	0	0	0	0	263	14	0	550



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

Proposed Treatments:

4	63022004-Cut	25.9	4139 - Aspen, Mixed Deciduous	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest with standard island retention. Use grouse drumming log spec and brush pile spec. Use oak wilt with exceptions spec. Do not cut white oak or white pine. Avoid wet area in the southeast finger.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, upland deciduous and coniferous species.

Regen:

Other Poor quality aspen. Restart.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

5	63022005-Cut	38.2	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	55	141- 170	Harvest	Group Selection	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Cut all jack pine regardless of merchantability. Leave an island of retention. Use oak wilt spec, no exceptions.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Jack pine, white pine, oak spp., maple spp.,

Regen:

Other Long term retention in the northeastern portion of the stand where a stream fades out. The ground there is saturated and inoperable. Good representation of parent stand will remain.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

20	63022015-NF	3.8	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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
17 63022017-Cut	11.0	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	59	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin. Cut all species in the rows. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Expect aspen and red maple as well as a touch of white pine and oak species to settle in to the rows we remove. <u>Regen:</u> <u>Other</u> If rows are difficult to follow, use a cut 16' leave 32' pattern. <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>										
50 63022020-12-New	3.4	2113 - Forage Crops Nonstocked				Unspecified	NonForestMgt	Other - Specify	3102 - Grass	No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application. <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> Proposed Start Date: 10/1 /2025</p>										
15 63022020-14-New	2.4	2113 - Forage Crops Nonstocked				Unspecified	NonForestMgt	Other - Specify	3102 - Grass	No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application. <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> Proposed Start Date: 10/1 /2025</p>										
51 63022020-15-New	1.7	3102 - Grass	Nonstocked			Unspecified	NonForestMgt	Other - Specify	3102 - Grass	No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application. <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> Proposed Start Date: 10/1 /2025</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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54	63022020-16-New	1.0	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass	No
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Prescription Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

21	63022021-Cut	12.4	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	57	111-140	Harvest	Group Selection	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Cut all jack pine regardless of merchantability. Use oak wilt spec without exceptions. Do not cut any other species in this stand. Use grouse drumming log spec.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Oak spp., pine spp., red maple, aspen, black cherry
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

40	63022040-Cut	7.3	4126 - White, Black, N. Pin Oak	Sawtimber Well	101	111-140	Harvest	Seed Tree	412 - Oak Types	Even-Aged	No
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Prescription Mark to leave no more than 30BA of healthy white oak. Use grouse drumming log spec. Use oak wilt with exceptions spec.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Oak spp., aspen spp., maple spp., pine spp.
Regen:

Other
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2025

44	63022044-Cut	108.7	4130 - Aspen	Poletimber Well	57	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with standard retention in the form of islands. Use grouse drumming log spec. Use oak wilt with exceptions. Do not cut white pine or white oak.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen, Oak spp., Black cherry, Pine spp. Maple spp.
Regen:

Other
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2025



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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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46	63022046-NF	1.2	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass	No
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Prescription Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

47	63022047-Cut	8.2	4125 - Black, N. Pin Oak	Sawtimber Well	103	81-110	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
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Prescription Clearcut with island retention. Use grouse drumming log spec. Use oak wilt with exceptions.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Oak spp., Aspen spp, Maple spp, Pine spp, Black cherry
Regen:

Other
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2025

60	63022062-Cut	62.1	4130 - Aspen	Sawtimber Well	56	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with standard retention in the form of islands. Use grouse drumming log spec.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen, Maple spp., Pine spp., Black Cherry, Oak spp.
Regen:

Other Establish private boundary through survey and timbersale prep.
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2025

Total Treatment 287.3
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 22
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions						
		With Condition			2I	5B	5C	2F	2G	5E	
1177	963	187		27	Aspen	187				17	10
7	7	0		0	Cropland						
7	7	0		0	Herbaceous Openland						
56	51	0		5	Jack Pine						5
242	229	14		0	Mixed Upland Deciduous		14				
41	41	0		0	Northern Hardwood						
279	215	51		13	Oak	16		35	13		
29	29	0		0	Planted Mixed Pines						
49	49	0		0	Red Pine						
4	4	0		0	Upland Shrub						
1,890	1,593	251		46	Total Forested Acres	202	14	35	13	17	15
	84%	13%		2%	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	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 22
Year of Entry: 2026

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2I: Survey needed	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 22
Year of Entry: 2026

12	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2F: Too steep	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2I: Survey needed	122	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	5E: Long-Term Retention	3J: Water quality / BMPs (stream, river, or lake)	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
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1	4130 - Aspen	Sapling Well	49.5	7	Immature	N/A	Stand was treated in Spring 2017 with sale # "63-022-16-01", "Ghost Turtle".
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
White Oak	2	Log/Pole	10	
Bigtooth Aspen	86	Sapling	1	7
Northern Pin Oak	2	Log/Pole	10	

2	4126 - White, Black, N. Pin Oak	Poletimber Well	7.7	46	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Pole	6		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole	6					
Black/Red (Hybrid) Oak	60	Pole	6	46				
White Oak	20	Pole	6					
White Pine	10	Pole/Log	10					

3	4125 - Black, N. Pin Oak	Poletimber Well	63.0	48	81-110	N/A	Mixed poor quality oak.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	60	Pole	8	48	Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
White Pine	5	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	20	Log	12					
White Oak	15	Pole	8					

4	4139 - Aspen, Mixed Deciduous	Poletimber Well	26.7	50	81-110	N/A	Some decent aspen clones mixed with poor quality lake county aspen. A couple pockets heavier to white oak. Scattered white pine. Restart aspen/maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling
White Pine	2	Log/Pole	10		Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	58	Pole	8	50	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
White Oak	10	Log/Pole	10					
Red Maple	25	Log/Pole	10					

5	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	43.5	55	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Pole	6		Northern Pin Oak	Medium	5 - 10 feet	Sapling
Northern Pin Oak	10	Pole	8		Black Cherry	High	5 - 10 feet	Sapling
Jack Pine	65	Pole/Log	10	55				
Black Cherry	10	Pole	8					
White Pine	10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	4199 - Other Mixed Upland Deciduous	Sapling Poor	21.6	15	1-50	N/A	Previous seed tree treatment filled in with red maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3	Pole	6		Black Cherry	Low	10 - 20 feet	Sapling
Black Cherry	2	Sapling	2		White Oak	Low	< 5 feet	Sapling
Bigtooth Aspen	5	Sapling	2		Bigtooth Aspen	Low	10 - 20 feet	Sapling
Red Maple	50	Sapling/Pole	3	15	Red Maple	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	25	Log	16	103	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
White Oak	15	Log	16					

7	4125 - Black, N. Pin Oak	Sapling Well	15.7	27	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Pole	6		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black Cherry	20	Sapling	4					
White Oak	10	Sapling	4					
Black/Red (Hybrid) Oak	50	Sapling	4	27				
White Pine	10	Pole/Log	9					

8	42110 - Planted Red Pine	Poletimber Well	10.4	56	81-110	N/A	Stand was third row thinned in Fall 2017 with sale # "63-022-16-01", "Ghost Turtle".
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Pole	8		Northern Pin Oak	Low	10 - 20 feet	Sapling
Red Pine	90	Pole	8	56				
White Pine	5	Log	12					

9	4112 - Maple, Beech, Cherry Association	Poletimber Medium	32.2	26	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	10	Log	16	84
White Oak	10	Log	14	84
Red Maple	80	Sapling/Pole	4	26

10	4130 - Aspen	Sapling Well	38.3	7	Immature	N/A	Stand was treated in late Summer 2017 with sale # "63-022-16-01", "Ghost Turtle".
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	5	Sapling	1	
Bigtooth Aspen	80	Sapling	1	7
White Oak	5	Sapling	1	
Red Maple	10	Sapling	1	

11	42110 - Planted Red Pine	Poletimber Well	27.2	59	81-110	N/A	Stand was third row thinned in Fall 2017 with sale # "63-022-16-01", "Ghost Turtle".
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole	8		Black Cherry	Low	5 - 10 feet	Sapling
Red Pine	90	Pole	8	59	Northern Pin Oak	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 42141 - Planted Mixed Pine, Mixed Deciduous Sawtimber Medium 28.7 57 51-80 N/A Planted red pine. Pockets of the stand were CC several years ago and have regenerated to an upland deciduous mix.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Pole	8		White Oak	Trace	< 5 feet	Sapling
White Pine	20	Log	12		Red Maple	High	10 - 20 feet	Sapling
Black Cherry	20	Pole	8		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Red Pine	50	Log	12	57	Black Cherry	High	10 - 20 feet	Sapling

13 4112 - Maple, Beech, Cherry Association Sapling Medium 8.5 15 1-50 N/A Previous seed tree. Filling in with red maple and cherry. Some oak in the understory, but most of it is being browsed and remains stunted.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	80	Sapling/Pole	3	15	Black/Red (Hybrid) Oak	Low	>20 feet	Log
Black Cherry	20	Sapling	2		Black/Red (Hybrid) Oak	Trace	< 5 feet	Sapling
					White Oak	Low	< 5 feet	Sapling
					Red Maple	Medium	5 - 10 feet	Sapling
					Black Cherry	Medium	5 - 10 feet	Sapling
					White Oak	Low	>20 feet	Log

14 4126 - White, Black, N. Pin Oak Sawtimber Well 23.3 102 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	10		Red Maple	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	45	Log	16	102	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black Cherry	5	Log/Pole	10					
White Pine	20	Pole	8					
White Oak	20	Log	14					

15 2113 - Forage Crops Nonstocked 2.4 Unspecified Managed Opening Planted wildlife opening

16 4199 - Other Mixed Upland Deciduous Sapling Medium 18.0 5 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	12	Sapling	1		White Oak	Trace	< 5 feet	Sapling
Red Pine	1	Sapling	1		White Pine	Low	< 5 feet	Sapling
White Oak	10	Sapling	1		Red Maple	High	< 5 feet	Sapling
Black Cherry	2	Sapling	1		Black/Red (Hybrid) Oak	Trace	< 5 feet	Sapling
White Oak	20	Log	14	103				
Black/Red (Hybrid) Oak	10	Log	16					
White Pine	5	Pole/Sapling	6					
Red Maple	40	Sapling	1	5				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 42111 - Planted Red Pine, Mixed Deciduous Poletimber Well 11.0 59 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Pole	8	
Red Maple	10	Pole/Sapling	5	
Red Pine	70	Pole	8	59
Bigtooth Aspen	10	Pole/Sapling	5	

18 4130 - Aspen Poletimber Well 8.5 43 111-140 N/A Harvest next entry. (2033)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	80	Pole/Log	10	43	Red Maple	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	10	Pole	8					
Red Maple	10	Pole/Log	10					

19 4130 - Aspen Poletimber Medium 91.4 29 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	60	Pole	6	29	Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
White Pine	5	Pole	6					
Jack Pine	5	Pole	6					
Red Maple	10	Pole	5					
Northern Pin Oak	10	Pole/Sapling	5					
Black Cherry	10	Sapling	4					

20 3102 - Grass Nonstocked 3.8 Unspecified No Non-managed grass opening.

21 42121 - Planted Jack Pine, Mixed Deciduous Poletimber Well 12.4 57 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	80	Pole/Log	9	57	Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	10	Pole/Log	10		Black Cherry	Low	10 - 20 feet	Sapling
White Oak	10	Pole	8					

22 4199 - Other Mixed Upland Deciduous Sapling Medium 17.5 5 1-50 N/A Stand treated 2019 as part of timbersale "Ghost Turtle" 63-022-16

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	8	Sapling	1		Black/Red (Hybrid) Oak	Trace	< 5 feet	Sapling
Black/Red (Hybrid) Oak	15	Log	16		White Pine	Low	< 5 feet	Sapling
Red Maple	40	Sapling	1	5	Red Maple	High	< 5 feet	Sapling
White Oak	10	Sapling	1		White Oak	Trace	< 5 feet	Sapling
White Pine	7	Pole/Sapling	6					
Black Cherry	5	Sapling	1					
White Oak	15	Log	14	107				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 4191 - Mixed Upland Deciduous with Conifer Sapling Well 10.0 27 1-50 N/A Strip CC 1997. Left all pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	25	Log/Pole	10	50	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black Cherry	10	Sapling	4		White Oak	Medium	5 - 10 feet	Sapling
White Oak	20	Sapling	3		Red Maple	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	10	Sapling	3	27				
Red Maple	35	Pole/Sapling	5	27				

24 4130 - Aspen Poletimber Well 107.5 37 51-80 N/A Stand CC 1987.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7		Red Maple	Medium	10 - 20 feet	Sapling
Black Cherry	5	Pole/Sapling	6					
Quaking Aspen	90	Pole	7	37				

25 4199 - Other Mixed Upland Deciduous Sapling Medium 16.2 27 51-80 N/A Strip cut 1997.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	20	Sapling	4		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	25	Sapling	3					
White Oak	20	Sapling	3					
Red Maple	35	Pole/Sapling	5	27				

26 4121 - Oak, Aspen Poletimber Well 39.1 58 51-80 N/A Oak with scattered aspen clones.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	30	Pole	8		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	50	Pole	6	58				
White Oak	20	Pole	6					

27 4126 - White, Black, N. Pin Oak Sawtimber Well 13.2 95 51-80 N/A Stand thinned 1997. Heavy red maple regen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	75	Log	16	95	White Oak	Low	5 - 10 feet	Sapling
White Oak	25	Log	14		Black/Red (Hybrid) Oak	Trace	5 - 10 feet	Sapling
					Red Maple	High	10 - 20 feet	Sapling
					Bigtooth Aspen	Low	10 - 20 feet	Sapling

28 4126 - White, Black, N. Pin Oak Sawtimber Well 7.0 107 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	50	Log	14		White Pine	Trace	< 5 feet	Sapling
Black/Red (Hybrid) Oak	50	Log	16	107	Black/Red (Hybrid) Oak	Trace	< 5 feet	Sapling
					White Oak	Trace	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29	4126 - White, Black, N. Pin Oak	Sawtimber Well	5.2	106	81-110	N/A	Low quality oak. Would be nice to keep a small, older stand on the landscape for some age class diversity.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak		20	Log	16		Red Maple		Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak		70	Log	16	106					
Red Maple		10	Log	12						

30	4199 - Other Mixed Upland Deciduous	Sapling Well	8.0	27	1-50	N/A	Strip CC 1997.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		10	Log	16	102	Red Maple		Low	10 - 20 feet	Sapling
White Pine		10	Pole	8		Black/Red (Hybrid) Oak		Low	5 - 10 feet	Sapling
Black Cherry		5	Sapling	4						
White Oak		5	Log	14						
White Oak		5	Sapling	3						
Red Maple		35	Pole/Sapling	5	27					
Black/Red (Hybrid) Oak		30	Sapling	3	27					

31	4199 - Other Mixed Upland Deciduous	Sapling Medium	36.4	27	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		3	Log	15	100	Black/Red (Hybrid) Oak		Low	5 - 10 feet	Sapling
Black Cherry		20	Sapling	4		Red Maple		Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		15	Sapling	3		Sedges		Low	Unspecified	Non-Wood
White Oak		2	Log	14		White Oak		Low	5 - 10 feet	Sapling
White Oak		20	Sapling	3						
Red Maple		35	Pole/Sapling	5	27					
Bigtooth Aspen		5	Sapling	3						

32	4130 - Aspen	Poletimber Well	101.9	36	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Pole/Sapling	7		Red Maple		Low	10 - 20 feet	Sapling
Bigtooth Aspen		70	Pole	7	36					
Black/Red (Hybrid) Oak		10	Pole	5						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34 4199 - Other Mixed Upland Deciduous Sapling Medium 81.8 18 1-50 N/A Previous seedtree with some scattered overstory oak.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	25	Sapling	3	
Black/Red (Hybrid) Oak	10	Sapling	2	
Black Cherry	10	Sapling	3	
Red Maple	33	Sapling	3	18
White Oak	10	Sapling	2	
Red Oak	2	Log	16	
White Oak	5	Log	14	
Black/Red (Hybrid) Oak	5	Log/XLog	16	104

35 4125 - Black, N. Pin Oak Poletimber Well 89.7 73 51-80 N/A Variable age and diameter oak. Some aspen clones in stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	55	Pole/Log	10	73	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen	10	Pole	8					
White Oak	15	Pole	8					

36 4130 - Aspen Sapling Well 20.1 7 Immature N/A Stand was treated in late Fall 2017 as part of sale # "63-029-16", "Some Beech Aspen".

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Sapling	1	
Red Maple	15	Sapling	1	
Black/Red (Hybrid) Oak	5	Sapling	1	
Bigtooth Aspen	75	Sapling	1	7

37 4130 - Aspen Poletimber Well 38.6 36 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Pole/Sapling	5		Red Maple	Low	10 - 20 feet	Sapling
Black Cherry	10	Pole	5					
Bigtooth Aspen	70	Pole	7	36				
Red Maple	15	Pole	7					

38 4199 - Other Mixed Upland Deciduous Sapling Poor 32.7 13 1-50 N/A Previous seed tree. Filling in heavy to red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	20	XLog/Log	18	93	Black Cherry	Medium	5 - 10 feet	Sapling
Red Maple	40	Sapling	2	13	Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen	15	Sapling	2		Red Maple	Medium	5 - 10 feet	Sapling
Beech	2	Sapling	2					
White Oak	3	Sapling	1					
White Oak	15	Log	16					
Black Cherry	5	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
40	4126 - White, Black, N. Pin Oak	Sawtimber Well	7.3	101	111-140	N/A																																						
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41	4130 - Aspen	Poletimber Well	82.4	27	Unspecified	N/A																																						
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42	4130 - Aspen	Sapling Well	23.9	15	Immature	N/A																																						
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44	4130 - Aspen	Poletimber Well	118.0	57	111-140	N/A																																						
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46	3102 - Grass	Nonstocked	1.2		Unspecified	No	Small grass opening.																																					
47	4125 - Black, N. Pin Oak	Sawtimber Well	8.2	103	81-110	N/A																																						
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48	3202 - Autumn Olive/Honeysuckle	Nonstocked	3.8		Unspecified	No	Upland brush.																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
49	4130 - Aspen	Sapling Well	38.2	6	Immature	N/A	Stand was treated in late March 2018 as part of sale # "63-029-16", "Some Beech Aspen".																																													
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50	2113 - Forage Crops	Nonstocked	3.4		Unspecified	Managed Opening																																														
51	3102 - Grass	Nonstocked	1.7		Unspecified	No	Grass opening.																																													
52	4130 - Aspen	Poletimber Well	124.2	44	51-80	N/A																																														
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54	2113 - Forage Crops	Nonstocked	1.0		Unspecified	Managed Opening																																														
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56	4130 - Aspen	Poletimber Well	52.1	27	1-50	N/A																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
57	4130 - Aspen	Poletimber Well	25.0	36	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		70	Pole	7	36	Black/Red (Hybrid) Oak	
Black/Red (Hybrid) Oak		10	Pole	5		Red Maple	
Red Maple		20	Pole	6			
						Density	Avg. Height
						Low	5 - 10 feet
						Low	5 - 10 feet
							Size
							Sapling
							Sapling
58	4130 - Aspen	Sapling Well	21.0	7	Immature	N/A	Stand was treated in late Fall 2017 as part of sale # "63-029-16", "Some Beech Aspen".
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling	1			
Black/Red (Hybrid) Oak		10	Sapling	1			
Bigtooth Aspen		70	Sapling	1	7		
60	4130 - Aspen	Sawtimber Well	42.8	56	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black/Red (Hybrid) Oak		10	Pole/Log	8		Red Maple	
Bigtooth Aspen		70	Log	11	56		
Red Maple		20	Log	11			
						Density	Avg. Height
						Low	10 - 20 feet
							Size
							Sapling
61	4130 - Aspen	Sapling Well	22.5	7	Immature	N/A	Stand was treated in Fall 2018 as part of sale # "63-029-16", "Some Beech Aspen".
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling	1			
Bigtooth Aspen		70	Sapling	1	7		
Black/Red (Hybrid) Oak		10	Sapling	1			
62	4130 - Aspen	Sawtimber Well	28.1	66	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Log	12		Beech	
Bigtooth Aspen		70	Log	12	66	Red Maple	
Black/Red (Hybrid) Oak		10	Pole/Log	10			
						Density	Avg. Height
						High	10 - 20 feet
						Medium	5 - 10 feet
							Size
							Sapling
							Sapling
63	4130 - Aspen	Poletimber Well	16.5	51	141-170	N/A	Variable density and diameter. There is a banked stream
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black/Red (Hybrid) Oak		5	Pole	8		Red Maple	
White Oak		5	Pole	8		Black Cherry	
Bigtooth Aspen		80	Pole/Log	10	51	White Pine	
Red Maple		10	Pole/Log	10			
						Density	Avg. Height
						High	10 - 20 feet
						High	10 - 20 feet
						Low	10 - 20 feet
							Size
							Sapling
							Sapling
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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66	4130 - Aspen	Poletimber Well	5.5	46	51-80	N/A	Not ready for harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Sapling/Pole	4	
Jack Pine	5	Pole/Sapling	6	
White Pine	3	Sapling/Pole/Log	14	
Black/Red (Hybrid) Oak	5	Sapling/Pole/Log	8	
White Oak	5	Sapling/Pole/Log	8	
Bigtooth Aspen	80	Pole	8	46