



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63032

Entry Year 2024

Acreage: 1,247

County Osceola

Management Area: Evert Block

Stand Examiner: James Park

Legal Description:

T18N, R08W, Sections 5, 6.

Identified Planning Goals:

Vegetation management in the Evert Block management area will provide timber 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 years will focus on balancing the age-class distributions for aspen and regenerating 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 the need to regenerate oak, the need to continue to balance aspen age classes, the need to diversify forest cover types and an increase in recreation pressure.

Soil and topography:

Compartment soils are a predominately Chelsea, Rubicon, and McBride sand and sandy loam association. In general, the topography is rolling hills.

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

The compartment ownership is contiguous and 100% State owned. Private (mainly recreational) ownership adjoins to the east and northeast of the compartment.

Unique Natural Features:

This compartment has some potential for nesting habitat for the Red Shouldered Hawk and the Goshawk.

Archeological, Historical, and Cultural Features:

There are no known significant historical features in this compartment.

Special Management Designations or Considerations:

Continue to manage this compartment towards mixed age class and diversity.

Watershed and Fisheries Considerations:

These two sections contain no surface waters so Fisheries Division has no specific recommendations on this compartment. (R. O'Neal 10/12)

Wildlife Habitat Considerations:

Primary wildlife interests are in maintaining the aspen and northern hardwood types, regenerating red oak, and establishing age class diversity in the aspen. Smaller treatment areas, following the existing terrain is preferred to avoid regeneration problems because of frost problems in the very hilly topography. Regeneration of the oak component within the aspen and northern hardwood types are a concern. Red maple and cherry generally regenerate in thinned stands. In some large cut-over areas from earlier treatments, no mast producing oaks or beech were left. Featured species guidance will be considered for pileated woodpecker, ruffed grouse, and white-tailed deer. (E. Victory 9/2012)

Mineral Resource and Development Concerns and/or Restrictions

Sections 5 & 6, T18N-R8W, Osceola County

No known potential exists for commercial metallic mineral production in this part of the state. No active sand/gravel pits occur in the vicinity, but there appears to be good potential for sand & gravel, but also clay, in the moraine deposits. There has been sparse oil & gas drilling in and around the compartment, all dry holes. The nearest oil or gas production, past or present, is more than two miles south. State-owned mineral rights immediately southwest of the compartment, in Sec 12, were very recently under lease but have expired. No wells have been permitted in the area within the last five years. There still could be potential for development of Devonian carbonates beneath the compartment.

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 known at this time.

Recreational Facilities and Opportunities:

The Evert motorcycle trail runs through the center of section 6. This 40" wide trail has a Directors Order which designates use for travel by 2 wheeled ORV's only. Timber management, and subsequent harvesting practices impacting this trail should include trail protection specifications that will enable the trail to remain narrow, and tight to uphold the intent of the Directors Order. This isolated block of state land receives heavy hunting and has many dispersed camping sites throughout the compartment. (T.M.N. 8-28-12)

Fire Protection:

The rolling terrain and hardwood forest of this compartment may hinder some resources from accessing a wildfire. Several forest roads and old logging trails can be found in the compartment. Normal dispersed camping and the cycle trail will both be a concern during a wildfire or prescribed burn. Water access is very limited (BET 8-1-12).

Additional Compartment Information:

The following reports from the Inventory are attached:

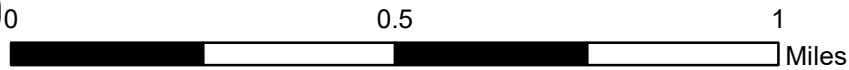
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

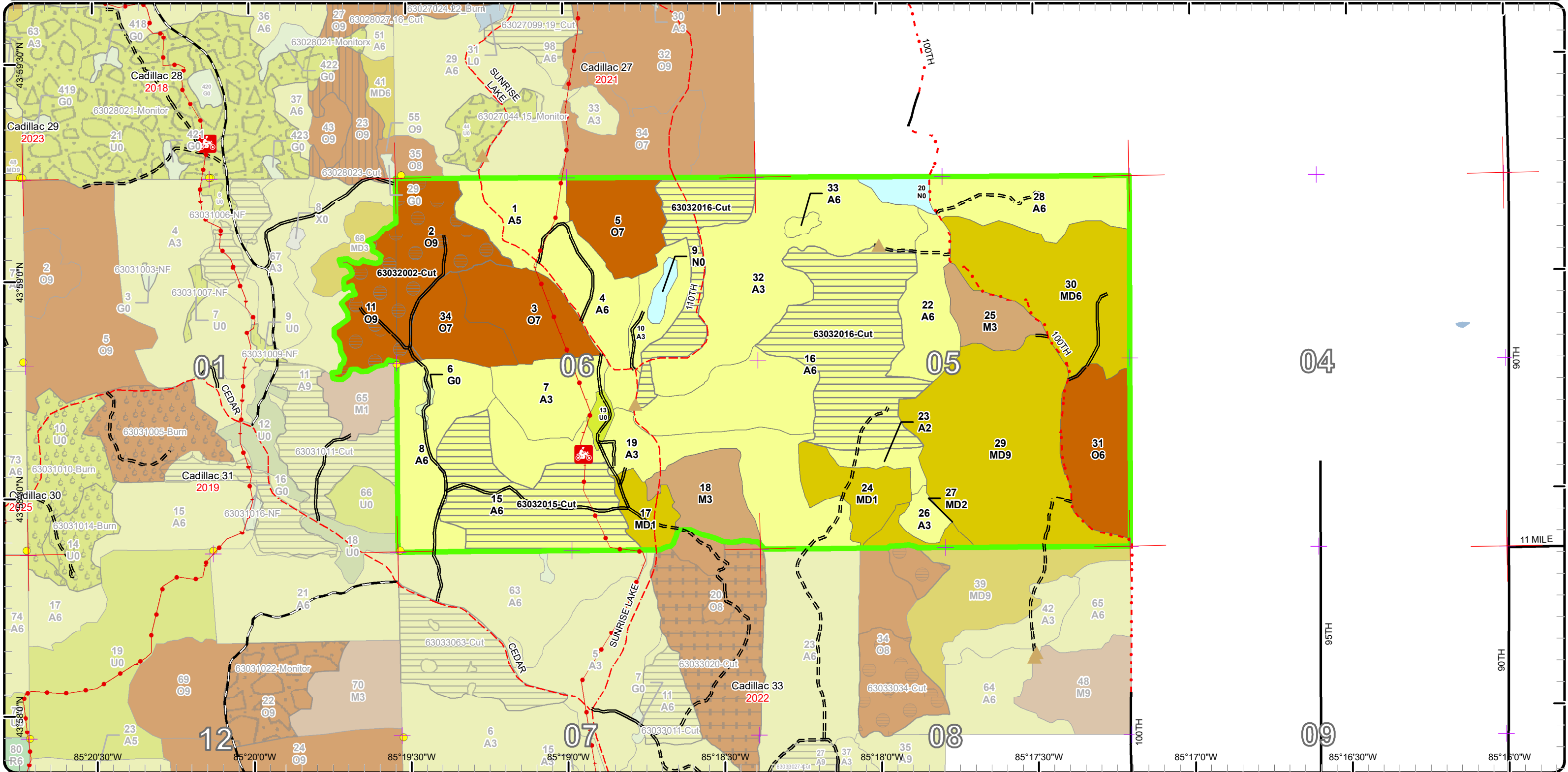
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 32
 T18N-R08W, Sec. 05, 06
 County: Osceola
 Unit: Cadillac
 Mgmt Area: Evert Block
 YOE: 2024
 Acres: 1247.4 GIS Calculated
 Examiner: James Park
 Map Revised: 10/4/2022
 Map Phase: Post- Review

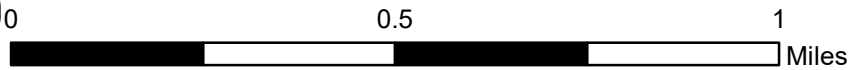


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🏍️ Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- ▲ Berms
- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Patch/Strip Cut (Femelschlag)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland

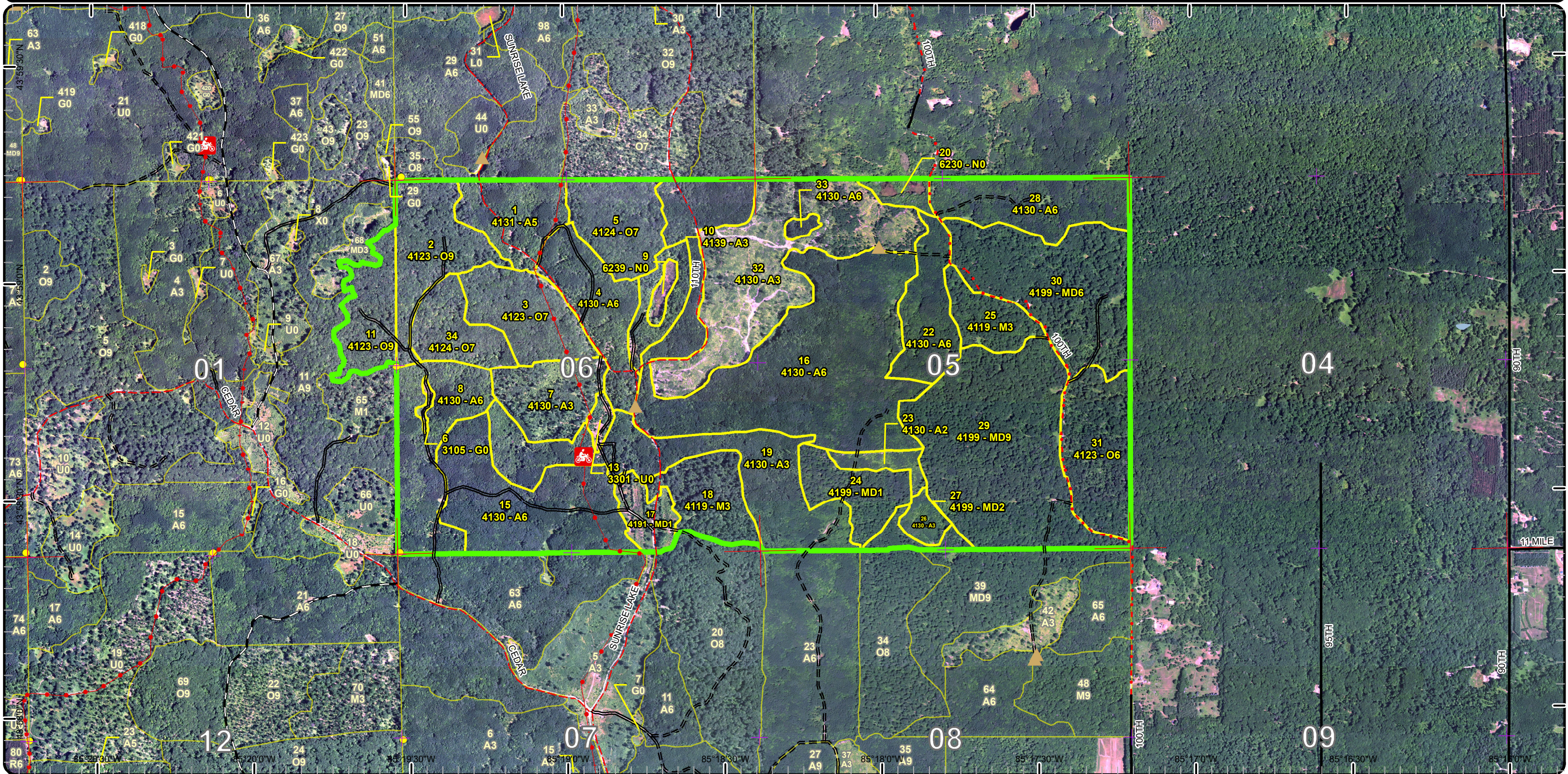


Stand Boundary Map

Compartment: 32
 T18N-R08W, Sec. 05, 06
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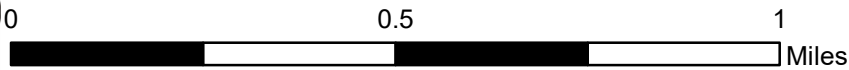
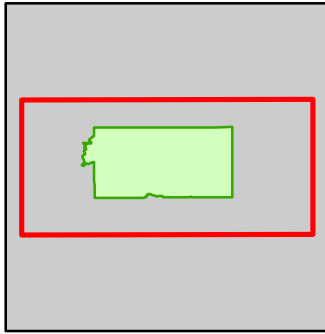


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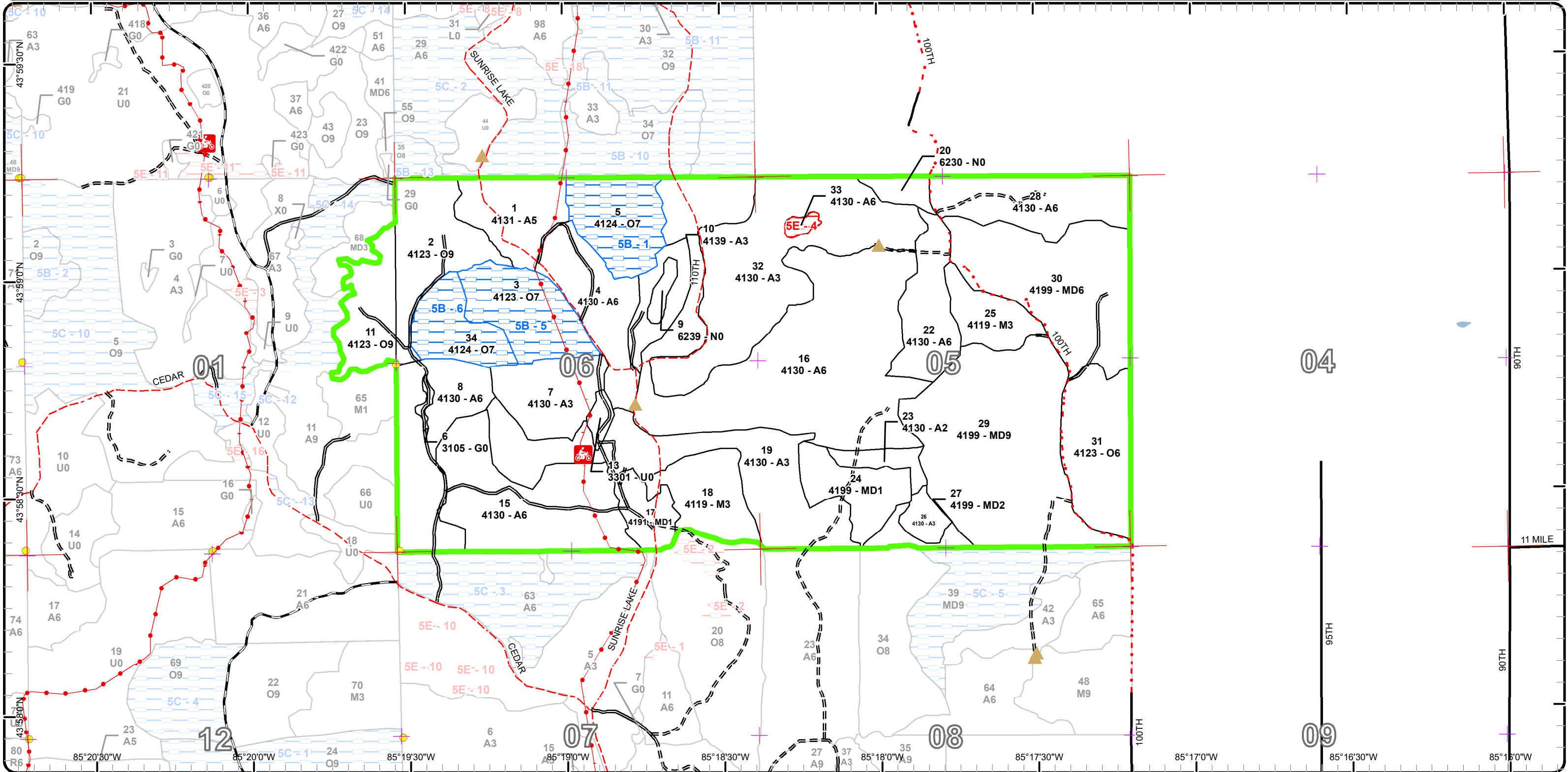


Special Conservation Areas

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 T18N-R08W, Sec. 05, 06
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- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries



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
Aspen	0	103	49	162	135	253	3	0	0	0	0	0	0	0	0	0	0	0	704
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Marsh	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	23	26	0	0	126	0	83	0	0	0	0	0	0	0	0	0	258
Northern Hardwood	0	0	20	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Oak	0	0	0	0	0	0	0	46	0	0	170	0	0	0	0	0	0	0	216
Total	18	103	92	218	135	253	129	46	83	0	170	0	0	0	0	0	0	0	1246



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 32

Total Compartment Acres: 1,247

Commercial Harvest - 277
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	206	0	0	0	0	0	0	0	0	206
Oak	0	0	71	0	0	0	0	0	0	71
Total	206	0	71	0	0	0	0	0	0	277

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	277	0	0	0	0	0	0	0	0	277
Next Step	0	0	0	0	0	0	277	0	0	277
Total	277	0	0	0	0	0	277	0	0	554



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:

2	63032002-Cut	71.1	4123 - Red Oak	Sawtimber Well	91	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove 50% of this stand using strip/patch cut technique. Include grouse spec. Use oak wilt spec. Design sale boundary to maximize edge effect.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventary)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak spp., red maple, aspen spp.</p> <p><u>Regen:</u></p> <p><u>Other</u> Consult with UM on the possible addition of a post harvest burn regime.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
15	63032015-Cut	73.6	4130 - Aspen	Poletimber Well	47	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard retention. Retention in the form of islands. Use grouse spec. Use oak wilt spec with exceptions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventary)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen sp. and other upland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Acres added per MA aspen target.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
16	63032016-Cut	132.5	4130 - Aspen	Poletimber Well	47	171-200	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard 3-10% retention in the form of islands. Use grouse spec. Use oak wilt spec with exceptions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventary)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen spp., red maple, red oak and other upland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Splitting the stand up for treatment due to large size. Hold remaining acres until next entry.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

Total Treatment 277.2
Acres Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 32
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5E
		With Condition	Not Available			
704	702	0	3	Aspen		3
2	2	0	0	Herbaceous Openland		
4	4	0	0	Low-Density Trees		
12	12	0	0	Marsh		
258	258	0	0	Mixed Upland Deciduous		
50	50	0	0	Northern Hardwood		
216	117	99	0	Oak	99	
1,247	1,146	99	3	Total Forested Acres	99	3
	92%	8%	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	5B: Maintain for regeneration purposes	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 32
Year of Entry: 2024

6	Available	5B: Maintain for regeneration purposes	26	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	4131 - Aspen, Oak	Poletimber Medium	32.3	21	Unspecified	N/A	Some mixed patches of larger diameter trees.																																							
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Bigtooth Aspen	50	Pole/Sapling	6	21																																										
2	4123 - Red Oak	Sawtimber Well	42.4	91	81-110	N/A	This stand was treated in 1994 as part of the timbersale "Mark I Oak" (sale #630419401). Recommend strip/patch cutting this stand to try and regenerate oak.																																							
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3	4123 - Red Oak	Sawtimber Poor	38.3	96	1-50	N/A	Stand was treated in summer 2018 as part of sale # "63-012-14", "Mountain Goat Oak". Sparse red oak regen showing signs of browse. Advanced red maple recruiting into gaps.																																							
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6	3105 - Mixed Upland Herbaceous	Nonstocked	1.7		Unspecified	No	Some scattered low density cherry. Mainly sedge and sweet fern.																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	4130 - Aspen	Sapling Well	32.2	13	Immature	N/A	Stand harvested 2009 as part of Jack Aspen & Cherry Poppin' (sale#63-053-04-01). Clearcut with oak seed tree reserves.
Canopy Species		% Cover	Size Class	DBH	Age		
White Oak		5	Log	16			
Bigtooth Aspen		70	Sapling	2	13		
Red Oak		5	Log	16			
Red Maple		20	Sapling	2			
8	4130 - Aspen	Poletimber Well	51.9	38	111-140	N/A	Not ready for commercial harvest.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Pole	8			
Red Oak		5	Log	13			
Bigtooth Aspen		80	Pole	8	38		
Black Cherry		5	Pole	8			
9	6239 - Mixed Emergent Wetland	Nonstocked	4.3		Unspecified	No	
10	4139 - Aspen, Mixed Deciduous	Sapling Well	15.7	23	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		45	Pole/Sapling	5	23		
Red Oak		10	Sapling	3			
Black Cherry		10	Sapling	3			
Red Maple		35	Pole/Sapling	5			
Sub-Canopy Species		Density	Avg. Height	Size			
Witch Hazel		Medium	5 - 10 feet	Tall Shrub			
11	4123 - Red Oak	Sawtimber Well	28.7	97	81-110	N/A	Stand treated sale # 630820101, "Willy Nilly Hardwoods". Specs allowed for the removal of all red maple and aspen 2" dbh or greater, and all orange marked oak trees. Sale closed August 2005.
Canopy Species		% Cover	Size Class	DBH	Age		
White Oak		5	Pole	8			
Red Oak		90	Log/Pole/XLog	12	97		
Red Maple		5	Pole/Log	9			
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		High	Variable	Sapling			
Witch Hazel		Medium	5 - 10 feet	Tall Shrub			
Beech		Low	10 - 20 feet	Sapling			
13	3301 - Low Density Deciduous Trees	Nonstocked	4.3		Unspecified	No	
15	4130 - Aspen	Poletimber Well	73.6	47	111-140	N/A	Stand is nearing rotation. Recommend holding for 10 years for age class diversity at a landscape level.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		90	Pole	8	47		
Red Oak		5	Pole	6			
Red Maple		5	Pole	6			
Sub-Canopy Species		Density	Avg. Height	Size			
Witch Hazel		High	5 - 10 feet	Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
16	4130 - Aspen	Poletimber Well	178.9	47	171-200	N/A	Mature aspen stand ready for commercial harvest.																																						
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17	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	15.2	13	Immature	N/A	Low density trees with some sweetfern and sedge. Stand was harvested in 2009 as part of Jack Aspen & Cherry Poppin' (sale# 60-053-04-01).																																						
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18	4119 - Mixed Northern Hardwoods	Sapling Well	30.2	23	81-110	N/A	Stand was treated in 1999 as part of "Stock Tank Removal" (sale# 021-95-01) Seed tree removal resulted in around 20 BA scattered overstory oak.																																						
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19	4130 - Aspen	Sapling Well	81.8	27	81-110	N/A	Stand was treated in 1995 as part of "Big Boy Aspen" (sale # 63-034-94-01) with a final harvest clearcut. Most of the oak in this stand is located along the eastern end.																																						
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20	6230 - Cattail	Nonstocked	7.8		Unspecified	No																																							
22	4130 - Aspen	Poletimber Well	32.3	29	51-80	N/A																																							
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24	4199 - Other Mixed Upland Deciduous	Sapling Poor	26.3	25	1-50	N/A	Stand was treated in 1997 as part of "Stock Tank Removal" (Sale # 630219501).																																																
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27	4199 - Other Mixed Upland Deciduous	Sapling Medium	7.7	18	1-50	N/A	Stand was treated in 2004 as part of the timbersale "Jim Dandy Oak" (Sale #630030201).																																																
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28	4130 - Aspen	Poletimber Well	43.9	37	81-110	N/A	Not ready for commercial harvest.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		65	Pole	7	37	Witch Hazel	
Paper Birch		5	Pole	6		Low	
Red Maple		30	Pole	7		5 - 10 feet	
						Tall Shrub	
29	4199 - Other Mixed Upland Deciduous	Sawtimber Well	126.3	53	1-50	N/A	Shelterwood harvest 2001. Regen heavy to red maple.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		40	Pole	6	21	Red Maple	
Red Oak		45	Log	14	53	High	
Black Cherry		5	Pole/Sapling	5		Low	
White Oak		10	Log	12		10 - 20 feet	
						Sapling	
						Tall Shrub	
30	4199 - Other Mixed Upland Deciduous	Poletimber Well	82.8	76	1-50	N/A	Stand was treated in 1999 as part of 100 AVE Hardwoods (sale# 63-011-97-01). Aspen, maple, white oak cut out. Red oak marked to cut. Stand variable in density and composition.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Beech		5	Sapling	3		Witch Hazel	
Bigtooth Aspen		15	Sapling	4		Medium	
Red Oak		45	Log	13	76	5 - 10 feet	
Red Maple		35	Sapling	3	20	Tall Shrub	
31	4123 - Red Oak	Poletimber Well	46.1	63	1-50	N/A	Stand was harvested in 2009 as part of Jack Aspen & Cherry Poppin' (sale# 63-053-04-01). Oak seed tree treatment with aspen, jack pine, and red maple cut out of the stand at the time.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Cherry		10	Pole	8		Bigtooth Aspen	
Red Pine		5	Log	14		Low	
White Oak		10	Pole	8		High	
Red Oak		75	Log	14	63	10 - 20 feet	
						Sapling	
						Sapling	
						Sapling	
32	4130 - Aspen	Sapling Well	103.1	8	Immature	N/A	Stand was harvested in the winter of 2014 (sale #63-011-14-01 Folding chair aspen). Stand fully stocked. Aspen regen is vigorous.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		5	Pole/Sap/Log	8			
Red Maple		10	Sapling	1			
Bigtooth Aspen		85	Sapling	1	8		
33	4130 - Aspen	Poletimber Well	2.6	52	111-140	N/A	retention pocket
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		15	Pole/Log	9		Witch Hazel	
Quaking Aspen		80	Pole/Log	9	52	Low	
Red Maple		5	Pole/Log	8		5 - 10 feet	
						Tall Shrub	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34 4124 - Red with White Oak Sawtimber Poor 26.0 91 1-50 N/A

Stand was treated in summer 2018 as part of sale # "63-012-14", "Mountain Goat Oak".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	80	Log	16	91	Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	20	Log	12		White Oak	Low	< 5 feet	Sapling
					Red Oak	Low	< 5 feet	Sapling
					Red Maple	High	10 - 20 feet	Sapling