



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63017

Entry Year 2022

Acreage: 1,742

County Lake

Management Area: Lake County Outwash

Revision Date: 2020-06-23

Stand Examiner: Ryan Adamczyk

Legal Description:

T18N R12W Sections 6 & 7. T19N R12W Section 31.

Identified Planning Goals:

Vegetation management in the Lake County Outwash management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on harvesting older jack pine and balancing the age-class distribution of aspen. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation; maintaining soft and hard mast sources including oak; and preserving related recreational opportunity.

Soil and topography:

Mostly Grayling & Graycalm sands. Sandy and well-drained.

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

A large block of state-ownership with scattered private holdings. There are some residences in the RMU. The following parcels are recommended for acquisition if they become available for sale: T19N R12W Section 21, N1/2SW and NESE; Those private lands in T18N R12W Section 7, E1/2NE.

Unique Natural Features:

The Michigan Natural Features Inventory lists a Great Blue Heron rookery, E. Common Loon, E. Massasauga, Box turtle, Wood turtle, Hill's thistle, Pine barrens, and Oak-Pine barrens as having occurred in this compartment. This compartment has the potential for the Dusted skipper, Grizzled skipper, red-legged spittle bug, Hill's thistle, rough fescue, Alleghany plum, and pale agoseris

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None known.

Watershed and Fisheries Considerations:

There is no water in this compartment.

Wildlife Habitat Considerations:

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

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured end moraine deposits in the northwest corner. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Mississippian Michigan Formation and Bayport Limestone. The Michigan is used for gypsum and the Bayport is used for stone. The nearest gravel pit is two miles to the west and potential is considered to be good, especially the northwest corner. The nearest oil and gas production is Peacock Field located six miles to the northwest. Peacock Field has

produced over 1.6 million BO from the Devonian Traverse Limestone. None of the compartment is currently under lease.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally

Survey Needs:

None.

Recreational Facilities and Opportunities:

This area is used heavily for hunting and camping. The Little Manistee Motorcycle Trail and Route occur within this compartment and are heavily used. Snowmobiling and berry and mushroom picking are known to occur in this compartment.

Fire Protection:

Access to this compartment is good with the ORV trails and various forest road thru out will allow use of fire equipment. Dispersed camping and recreational use could be a cause of wildfires.

Additional Compartment Information:

None.

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**

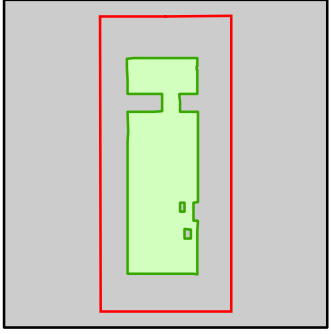


Age Class

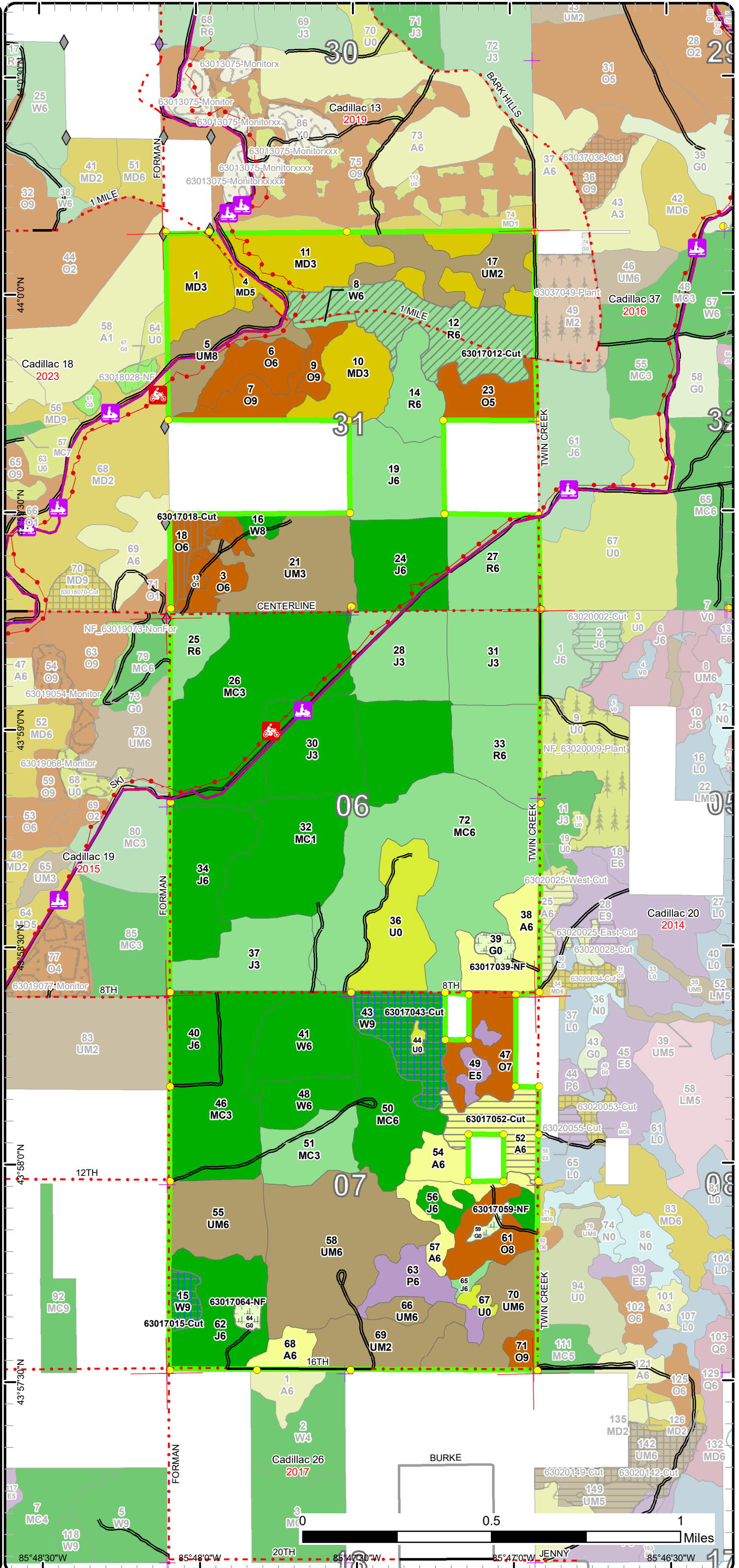
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	44	37	0	0	0	0	0	0	0	0	0	0	0	0	81
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Jack Pine	0	0	0	197	40	112	0	0	0	0	0	0	0	0	0	0	0	0	348
Low-Density Trees	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Lowland Aspen/Balsam Poplar	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Deciduous	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	102	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	111
Natural Mixed Pines	0	0	245	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	283
Oak	0	0	4	0	0	20	0	0	7	24	74	5	0	0	0	0	0	0	134
Planted Mixed Pines	0	0	0	26	0	121	0	0	0	0	0	0	0	0	0	0	0	0	147
Red Pine	0	0	0	0	95	15	57	0	0	0	0	0	0	0	0	0	0	0	167
Upland Mixed Forest	0	63	49	63	88	0	30	0	0	0	0	0	0	0	0	0	0	0	292
White Pine	0	0	0	0	0	0	28	38	0	0	30	4	0	0	0	0	0	0	100
Total	54	63	400	286	324	305	131	38	7	24	104	9	0	0	0	0	0	0	1741

Cover Type & Treatments Map

Compartment: 17
 T. 18N R. 12W Sec. 06, 07
 County: Lake
 Unit: Cadillac
 Mgmt Area: Lake County Outwash
 YOE: 2022
 Acres: 1,742 GIS Calculated
 Examiner: Ryan Adamczyk
 Map Revised: 6/22/2020
 Map Phase: Web-Post

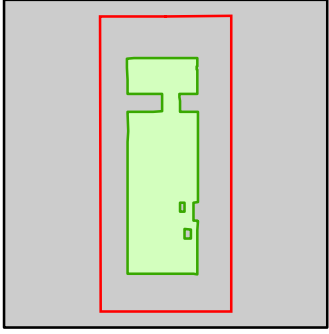


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- Motorcycle Trails (DNR License)
- ORV Routes
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees

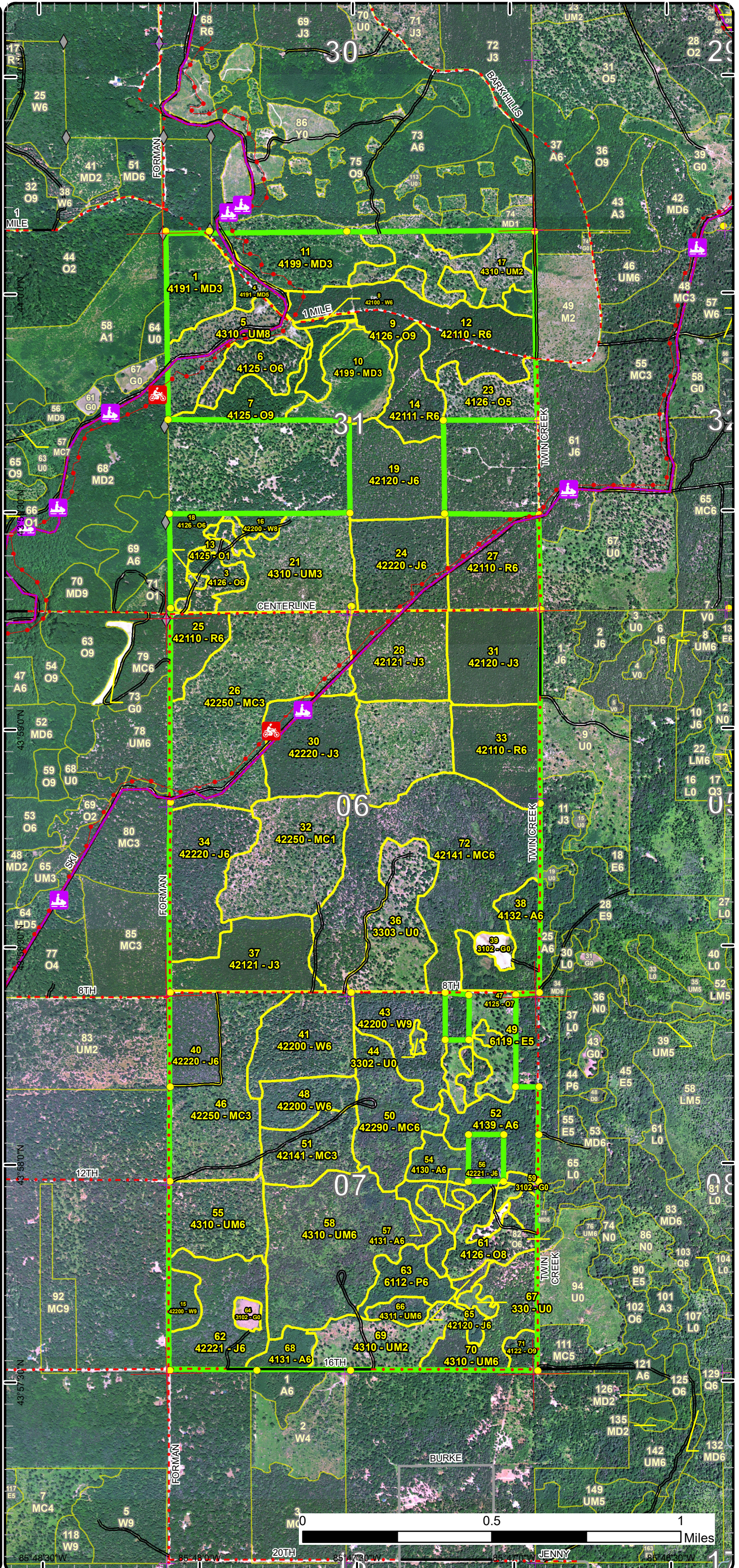


Stand Boundary Map

Compartment: 17
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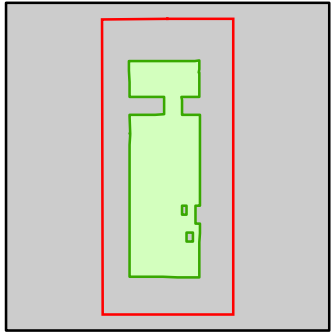


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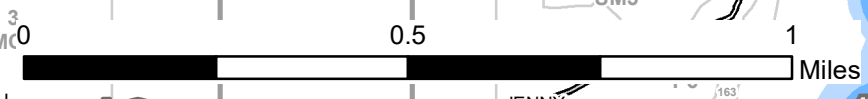
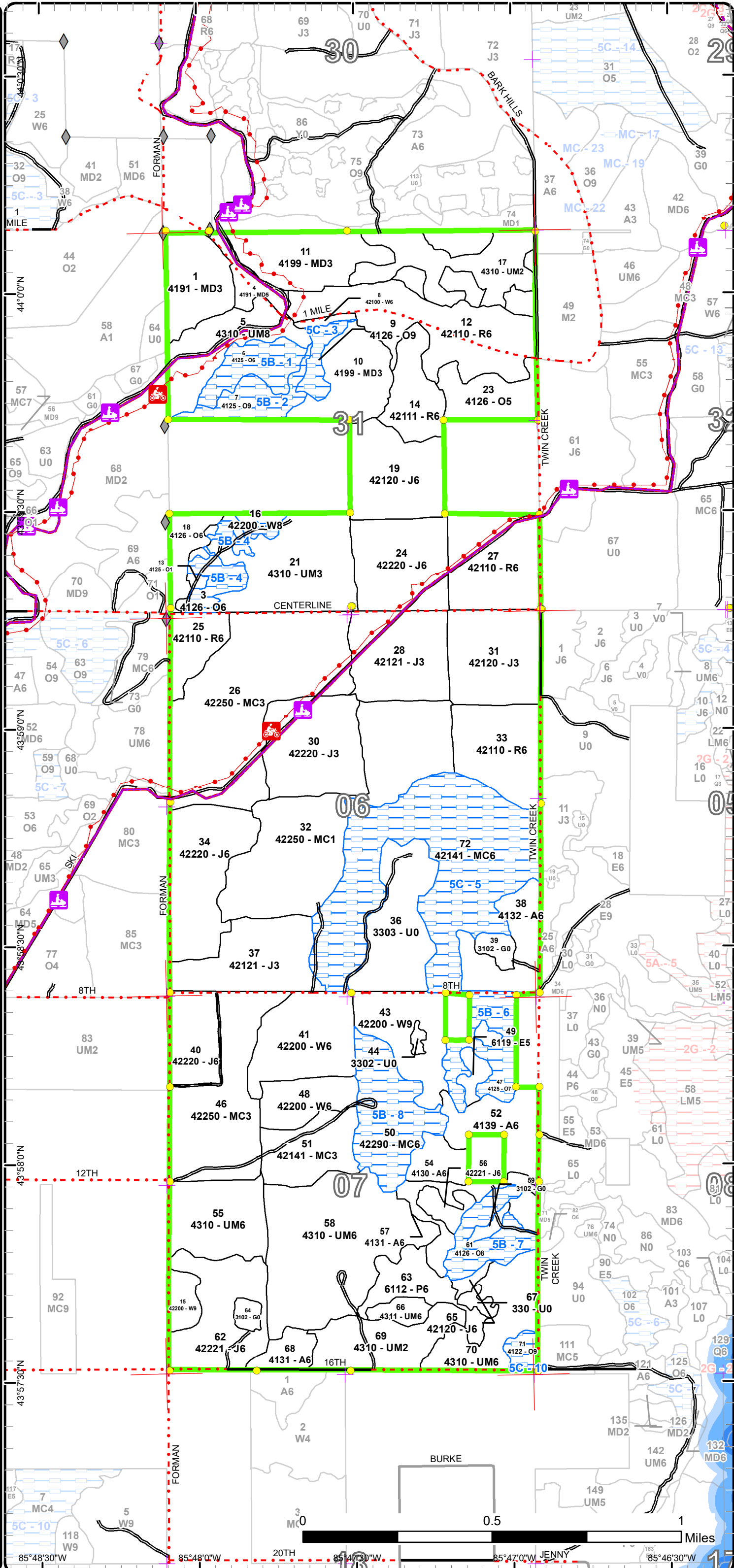


Special Conservation Areas

Compartment: 17
 T. 18N R. 12W Sec. 06, 07
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- Miris Corners
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- 🏍️ Motorcycle Trails (DNR License)
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer



85°48'30"W 85°48'0"W 85°47'30"W 85°47'0"W 85°46'30"W



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 17

Total Compartment Acres: 1,742

Commercial Harvest - 129
 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	24	0	0	0	0	0	0	0	0	24
Oak	0	0	0	0	11	0	0	0	0	11
Red Pine	0	0	0	0	0	57	0	0	0	57
White Pine	0	0	0	37	0	0	0	0	0	37
Total	24	0	0	37	11	57	0	0	0	129

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	129	0	0	0	0	0	0	11	0	140
Next Step	0	0	0	0	0	0	72	0	0	72
Total	129	0	0	0	0	0	72	11	0	212



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:

12	63017012-Cut	57.1	42110 - Planted Red Pine	Poletimber Well	58	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 1/3 row thin cutting all species in the cut row

Specs:

Next Step

Treatments:

Acceptable red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 1 /1 /2023

15	63017015-Cut	7.7	42200 - Natural White Pine	Sawtimber Well	55	141-170	Harvest	Seed Tree	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Green mark leave trees and cut this stand to 20-30 BA leaving a mix of species. Cut all merchantable jack pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable white pine, jack pine, black oak, aspen

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 1 /1 /2023

18	63017018-Cut	11.3	4126 - White, Black, N. Pin Oak	Poletimber Well	89	81-110	Harvest	Shelterwood	412 - Oak Types	Two-Aged	No
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Prescription Green mark trees to leave 40-60 BA. Focus leave trees on higher quality red oak in the northern part of the stand. Do not cut white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable red oak, white pine, white oak, aspen

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 1 /1 /2023



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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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39	63017039-NF	4.7	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
<p><u>Prescription</u> Keep open. Treatment may include mowing, tilling, planting, brush and tree cutting, planting soft and hard mast species, or shrubs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

43	63017043-Cut	29.6	42200 - Natural White Pine	Sawtimber Well	92	141- 170	Harvest	Seed Tree	42201 - Natural White Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Green mark trees to leave a variety of species. Cut to 20-30 BA cutting all merchantable aspen and jack pine. Leave a 100' buffer around wet area in the center of the stand.</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> white pine, black oak, white oak, jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /1 /2023</p>											

52	63017052-Cut	23.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	45	111- 140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Cut all species. Mark a few islands for retention to meet certification requirements.</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> aspen, oak sp, red maple, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
59 63017059-NF	2.5	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Keep open. Treatment may include mowing, tilling, planting, brush and tree cutting, planting soft and hard mast species, or shrubs. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
64 63017064-NF	3.4	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Keep open. Treatment may include mowing, tilling, planting, brush and tree cutting, planting soft and hard mast species, or shrubs. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 139.9
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit

Ryan Adamczyk : Examiner

Compartment: 17

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C
		With Condition	Not Available			
81	81	0	0	Aspen	0	
11	11	0	0	Herbaceous Openland		
349	349	0	0	Jack Pine		
43	43	0	0	Low-Density Trees		
19	19	0	0	Lowland Aspen/Balsam Poplar		
7	7	0	0	Lowland Deciduous		
111	111	0	0	Mixed Upland Deciduous		
283	245	38	0	Natural Mixed Pines	38	
134	35	100	0	Oak	87	12
265	26	240	0	Planted Mixed Pines		240
167	167	0	0	Red Pine		
293	293	0	0	Upland Mixed Forest		
99	94	4	0	White Pine		4
1,861	1,480	382		Total Forested Acres	125	257
	80%	21%	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	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit

Compartment: 17

Ryan Adamczyk : Examiner

Year of Entry: 2022

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	121	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit

Compartment: 17

Ryan Adamczyk : Examiner

Year of Entry: 2022

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	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

Mgt. Unit

Compartment:

Year of Entry



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
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1 4191 - Mixed Upland Deciduous with Conifer Sapling Well 25.4 11 Immature N/A Stand treated timber sale #630010501. There's a small strip of mature oak on the west side of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	30	Sapling	1	11
Red Maple	30	Sapling	1	
Jack Pine	25	Sapling	1	
Black/Red (Hybrid) Oak	10	Sapling	1	
Black/Red (Hybrid) Oak	5	Log	12	

3 4126 - White, Black, N. Pin Oak Poletimber Well 12.6 89 51-80 N/A Stand left out of treatment area for timber sale #63-042-02-01. Adjacent clearcut patches were cut out of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Log/Pole	10		White Oak	Medium	< 5 feet	Sapling
Black/Red (Hybrid) Oak	65	Log/Pole	12	89	Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
White Pine	10	Pole	8		Red Pine	Low	< 5 feet	Sapling
Red Pine	5	Pole	6					

4 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 9.0 58 51-80 N/A Stand treated timber sale #630769902, in 2000. Cut in 2000 to release all white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	5		Red Maple	Low	5 - 10 feet	Sapling
White Oak	30	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	25	Pole/Log	9		Jack Pine	Low	5 - 10 feet	Sapling
White Pine	35	Pole/Log	8	58	Black Cherry	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole/Log	7					

5 4310 - Pine, Oak Mix Sawtimber Medium 29.5 58 1-50 N/A Stand treated in summer 2014 with timber sale #63-047-12-01, "Rec Trails Mix".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Pole/Log	8		White Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	25	Log/Pole	10		Black Cherry	Low	5 - 10 feet	Sapling
White Pine	50	Log/Pole	10	58	Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
Red Pine	5	Log/Pole	12					

6 4125 - Black, N. Pin Oak Poletimber Well 17.3 90 1-50 N/A Stand treated in summer 2014 with timber sale #63-047-12-01, "Rec Trails Mix".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	8		White Pine	High	5 - 10 feet	Sapling
White Oak	10	Pole/Log	9		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	65	Log/Pole	10	90				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
7	4125 - Black, N. Pin Oak	Sawtimber Well	15.2	98	51-80	N/A	Stand treated timber sale # "63-042-02", "Hunt Club Sale". Specs read cut all trees less than 10".																																																	
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8	42100 - Planted White Pine	Poletimber Well	1.9	58	111-140	N/A	White pine planted 1962. Fairly distinct rows.																																																	
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9	4126 - White, Black, N. Pin Oak	Sawtimber Well	7.4	78	111-140	N/A	Leave stand for mast/age class diversity.																																																	
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10	4199 - Other Mixed Upland Deciduous	Sapling Well	28.0	15	Immature	N/A	Stand treated timber sale # "63-042-02", "Hunt Club Sale". Specs read cut all trees 2" or greater. Excellent amount of oak seedlings averaging 3' tall. Lots of sassafras seedlings also. Clump sprouts of red maple and oak.																																																	
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11	4199 - Other Mixed Upland Deciduous	Sapling Well	49.1	13	Immature	N/A	Stand treated timber sale #63-001-05-01, cut in 2007. Log oak were left. Pockets of good aspen regen. Oak stump sprouts and some single stem seedlings/saplings coming up but not heavy. Red maple stump sprouts, cherry brush, and sassafras make up the rest of the vegetation.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 42110 - Planted Red Pine Poletimber Well 57.1 58 171-200 N/A

Stand planted 1962 to red pine with some white pine in rows on northern edge. Rows fairly straight but oak clumps and seeded in jack pine obstruct maneuverability at points.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	2	Pole/Sapling	6		Black Cherry	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	10	Log/Pole	10					
White Pine	2	Pole/Log	8					
Red Pine	80	Pole/Log	9	58				
Jack Pine	6	Pole	7					

13 4125 - Black, N. Pin Oak Sapling Poor 4.0 13 Immature N/A

Treated timber sale #630420201. Sapling oaks and sapling black cherry filling in.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	55	Sapling	2	13
Black Cherry	10	Sapling	2	
Red Maple	15	Sapling	2	
Jack Pine	15	Sapling	2	
White Oak	5	Sapling	2	

14 42111 - Planted Red Pine, Mixed Deciduous Poletimber Well 21.1 38 141-170 N/A

Stand replanted back to red pine after illegal wildfire. Large pocket of young jack pine and oak in the center of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20	Pole/Sapling	5	
Red Pine	60	Pole	6	38
Jack Pine	15	Pole/Sapling	6	
Black Cherry	5	Sapling	4	

15 42200 - Natural White Pine Sawtimber Well 7.7 55 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	70	Log/Pole	10	55
Jack Pine	20	Pole/Sapling	7	
Northern Pin Oak	10	Pole/Log	8	

16 42200 - Natural White Pine Sawtimber Medium 4.3 108 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	12		White Pine	High	>20 feet	Sapling
Black/Red (Hybrid) Oak	5	Log/Pole	14		Bigtooth Aspen	Medium	>20 feet	Sapling
White Pine	75	Log/XLog/Pole	16	108				
Red Pine	2	Log	12					
Bigtooth Aspen	13	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 4310 - Pine, Oak Mix Sapling Medium 34.0 6 Immature N/A Stand replanted to jack pine per FTP #C63-740Re in 2014. Originally planted per FTP# C63-740 in 2012. Trenched in 2011 by R.W. Gallatin & Son. Stand treated timber sale #63-001-05-01, cut in 2007. Pole to Log oak were left. Pockets of good aspen regen up to 5'. Oak stump sprouts and some single stem seedlings/saplings coming up but not heavy. Red maple stump sprouts, cherry brush, and sassafras sprouts make up the rest of the vegetation.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	50	Sapling	1	6	Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	15	Log	14					
White Oak	10	Sapling	1					
Black Cherry	10	Sapling	1					
Sassafras	5	Sapling	1					
Red Maple	5	Sapling	1					
Bigtooth Aspen	5	Sapling	2					

18 4126 - White, Black, N. Pin Oak Poletimber Well 11.3 89 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Log/Pole	10		White Oak	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	35	Log/Pole	12	89	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
White Pine	10	Log/Pole	10					
Red Oak	25	Log/Pole	12	89				
Red Maple	10	Log/Pole	10					

19 42120 - Planted Jack Pine Poletimber Well 37.2 35 141-170 N/A Stand hand planted to jack pine 1985.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	8	Sapling/Pole	4	35
Jack Pine	85	Pole/Sapling	5	35
Black Cherry	2	Pole/Sapling	5	35
Red Pine	5	Pole/Sapling	5	

21 4310 - Pine, Oak Mix Sapling Well 48.5 15 Immature N/A Stand treated timber sale # "63-042-02", "Hunt Club Sale". Specs read, cut all trees but leave one jack pine and one oak every 150'. Excellent amount of jack pine and oak seedlings and saplings. Some overstory oak and pine were left from treatment.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	35	Sapling	1	15
White Pine	4	Log/Pole	10	
Red Pine	2	Pole/Log	8	
Jack Pine	50	Sapling	2	15
Black Cherry	5	Sapling	2	
Black/Red (Hybrid) Oak	2	Log	12	
Jack Pine	2	Log	10	

23 4126 - White, Black, N. Pin Oak Poletimber Medium 19.6 45 1-50 N/A Stand treated timber sale #63-048-12-01, "Fair to Middling Mix". Previous Comment: Oak was cut out of the stand in 1982. There are advanced oak sprouts and jack pine regen in the canopy gaps from previous treatment.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	35	Pole	6		Black/Red (Hybrid) Oak	High	Variable	Sapling
Black/Red (Hybrid) Oak	60	Pole/Log	8	45	White Pine	Low	5 - 10 feet	Sapling
Black Cherry	5	Pole	6		Black Cherry	Low	5 - 10 feet	Sapling
					Jack Pine	High	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
24	42220 - Natural Jack Pine	Poletimber Well	38.6	28	141-170	N/A	Stand treated timber sale in 1992. Oak and jack pine were marked to leave. Excellent jack pine regen.																														
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White Pine	2	Log/Pole	12																																		
25	42110 - Planted Red Pine	Poletimber Well	15.4	45	141-170	N/A	Area looks planted but no FTP could be found.																														
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Jack Pine	2	Pole	6	45																																	
26	42250 - Pine, Oak	Sapling Well	99.9	15	Immature	N/A	Stand treated timber sale # "63-042-02", "Hunt Club Sale". Specs read, cut all trees except oak greater than 10", red/white pine, or green painted trees. Sale closed 8/17/05. Some overstory oak and pine left. Overstory black oak aged 76. West side of stand was treated in summer 2006 with timber sale # "63-010-05", "Comeback Jack". Specs in sale: Cut all species except white oak, red pine, white pine, and green painted trees.																														
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White Pine	15	Pole	6																																		
Jack Pine	50	Sapling	3	15																																	
27	42110 - Planted Red Pine	Poletimber Well	39.2	35	141-170	N/A	Stand clearcut 1983. Prescribed burn 5/15/84. Machine planted 1/2 jack pine, 1/2 red pine in June 1985. Jack pine did not do well in some spots.																														
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28	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	38.9	26	Immature	N/A	Stand clearcut in 1986. Planted to jack pine in 1994. Good amount of oak regen in the form of stump sprouts and saplings.																														
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30	42220 - Natural Jack Pine	Sapling Well	42.5	27	Immature	N/A	Stand had a seed tree cut in May 1993 with timber sale # "63-014-92", "Jackpine Trail". Overstory trees left. No oak was cut, jack pine was marked to leave. Good amount of jack pine and oak regen.																														
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31	42120 - Planted Jack Pine	Sapling Well	39.2	24	Immature	N/A	Stand treated timber sale 630099201. Cut winter/spring of 1993-1994. Trenched and handplanted to jack pine in May 1996.																																
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32	42250 - Pine, Oak	Sapling Poor	90.4	15	Immature	N/A	Stand treated in 2005 with timber sale # "63-038-02", "17 South Part". Good amount of oak/jack pine seedlings in stand.																																
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33	42110 - Planted Red Pine	Poletimber Well	34.5	30	Immature	N/A	Stand was clearcut in 1985 with timber sale # "63-055-84". Planted red pine. Planting record could not be found.																																
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34	42220 - Natural Jack Pine	Poletimber Well	43.8	49	141-170	N/A																																	
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36	3303 - Mixed Low Density Trees	Nonstocked	38.7		Unspecified	4310 - Pine, Oak Mix	Stand treated timber sale #63-048-12-01, "Fair to Middling Mix". Scattered sapling to pulp oak and jack pine left in sale. Previous Comment: Stand scraified and seeded in 1972. Diameters vary throughout stand, pockets of larger diameter pine and oak mixed with pockets of smaller diameters.																																
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37	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	37.6	24	Immature	N/A	Stand clearcut in 1993. Trenched and handplanted to 2-0 seedlings in May 1996.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
38	4132 - Aspen, Jack Pine	Poletimber Well	24.2	38	141-170	N/A	Pulp oak on upland hills. Aspen patchy and mostly on lowland areas. Lowland areas flooded due to unseasonable rainfall amounts. Areas of each too small to delineate out. Oak areas have good single stem and stump sprout regen. Lowland area has some willow brush.																																							
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39	3102 - Grass	Nonstocked	4.7			Managed Opening	Wildlife maintained opening.																																							
40	42220 - Natural Jack Pine	Poletimber Well	20.9	43	141-170	N/A	Jack pine naturally seeded in. Stand scarified and trenched 1977. Sprayed with Sevin 80 in 1993.																																							
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41	42200 - Natural White Pine	Poletimber Well	37.5	62	81-110	N/A	Stand treated in summer 2006 with timber sale # "63-010-05", "Comeback Jack". Spec read: Cut all trees except, do not cut white oak, red pine, white pine, and green marked trees.																																							
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43	42200 - Natural White Pine	Sawtimber Well	29.6	92	141-170	N/A	Stand treated 1988, all aspen, jack pine and oak (except oak marked to leave), were harvested.																																							
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44	3302 - Low Density Conifer Trees	Nonstocked	1.5		Unspecified	No	Drying up grassy marsh. Becoming treed with jack and white pine.																																							
46	42250 - Pine, Oak	Sapling Well	55.1	15	Immature	N/A	Stand treated timber sale 630380201 in 2005. Overstory oak and jack pine left. Good amount of oak sprouts and single-stem regen. Jack pine regen is heavy in spots.																																							
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47	4125 - Black, N. Pin Oak	Sawtimber Poor	22.6	91	1-50	N/A	Stand was treated in winter 2014 with sale # "63-048-12-01", "Fair to Middling Mix".																																											
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48	42200 - Natural White Pine	Poletimber Well	17.7	58	141-170	N/A	Stand treated 1995. Specs were to cut all jack pine and leave all oak. Oak left for mast and shading. Machine planted jack pine in open areas in 1997.																																											
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Jack Pine	15	Sapling/Pole	4	23																																														
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Sub-Canopy Species	Density	Avg. Height	Size																																															
White Pine	Low	5 - 10 feet	Sapling																																															
49	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	6.5	55	51-80	N/A	Stand contains cherry brush, oak sapling/small poles, small amount of red maple. Not heavily stocked.																																											
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50	42290 - Natural Mixed Pine	Poletimber Well	37.7	32	111-140	N/A	Stand treated in 1988. All aspen, jack pine and oak cut (except oak marked to leave). Small amount of white pine and red maple overstory trees left from cut.																																											
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51	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	25.5	23	111-140	N/A	Stand treated timber sale 1995. All jack pine were cut, all oaks were left. Oak were left for mast and shading. Machine planted jack pine in open areas in 1997.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52	4139 - Aspen, Mixed Deciduous	Poletimber Well	23.6	45	111-140	N/A	Clearcut in 1975. Pockets of larger diameter aspen/oak/maple mixed throughout. Very wet due to extreme precipitation.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole/Log	8	
White Oak	5	Pole/Log	7	
Bigtooth Aspen	55	Pole/Log	8	45
Black/Red (Hybrid) Oak	10	Pole/Log	8	
White Pine	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Low	5 - 10 feet	Tall Shrub

54	4130 - Aspen	Poletimber Well	10.5	32	141-170	N/A	Stand treated in 1988. All aspen, jack pine and oak cut (except oak marked to leave).
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	5	
Black/Red (Hybrid) Oak	5	Pole/Sap/Log	8	
Bigtooth Aspen	71	Pole/Sapling	5	32
White Pine	4	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	Low	< 5 feet	Tall Shrub
Alder	High	5 - 10 feet	Tall Shrub
Witch Hazel	Low	5 - 10 feet	Tall Shrub

55	4310 - Pine, Oak Mix	Poletimber Well	33.0	25	81-110	N/A	Stand treated 1995. Spec was to cut all jack pine and leave all oak. Salvage cut of dead oak in 1997. Machine planted holes to jack pine in 1997. Jack pine is concentrated in multiple clumps throughout the stand. Oak left for mast.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	10	Pole/Log	8	
Jack Pine	47	Pole/Sapling	5	25
Black Cherry	5	Pole/Sapling	5	
White Oak	30	Log/Pole/Sap	10	68
White Pine	8	Log/Pole	10	

56	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	10.2	45	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Pole	7	
Jack Pine	70	Pole	7	45
Black Cherry	10	Pole/Sapling	6	

57	4131 - Aspen, Oak	Poletimber Well	13.3	45	141-170	N/A	Stand clearcut 1975. Stand mostly flooded due to unseasonable amount of rainfall.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	10	Pole	7	
Bigtooth Aspen	65	Pole	8	45
Black/Red (Hybrid) Oak	15	Pole	7	
White Pine	2	Pole	7	
Jack Pine	2	Pole	8	
Black Cherry	2	Pole/Sapling	5	
Red Maple	4	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium	< 5 feet	Sapling
Witch Hazel	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
58	4310 - Pine, Oak Mix	Poletimber Well	82.5	33	111-140	N/A	Stand treated timber sale 630068601. Cut in 1987. All merchantable jack pine, aspen, and oak were cut. Very mixed species. Few scattered overstory white pine and oak.																																													
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59	3102 - Grass	Nonstocked	2.5			Managed Opening	Wildlife maintained opening.																																													
61	4126 - White, Black, N. Pin Oak	Sawtimber Medium	19.4	90	1-50	N/A	Stand was treated in winter 2016 with timber sale # "63-046-12", "14 Acre Mix".																																													
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62	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	37.5	46	111-140	N/A	Stand clearcut in 1974. Scarified with roller chopper & chains in 1977. Occasional overstory red pine. A few small pockets of aspen.																																													
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63	6112 - Lowland Aspen	Poletimber Well	18.5	33	111-140	N/A	Stand treated timber sale 630068601. Cut in 1987. There are a few overstory white pine trees and a few crabapple trees in the stand.																																													
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66	4311 - Pine, Aspen Mix	Poletimber Well	5.8	33	111-140	N/A	Stand treated timber sale 630068601. Cut in 1987.																																										
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67	330 - Low-Density Trees	Nonstocked	2.8		Unspecified	No	Grassy area with a few jack pine, bigtooth aspen, and a small amount of willow brush. Filled with standing water due to heavy rainfall in 2019. Old plow line was found, South east area burned to 16th St. and Twin Creek Rd. (except for the oak stand).																																										
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68	4131 - Aspen, Oak	Poletimber Well	8.9	33	111-140	N/A	Stand treated 1987. Contain small zones of pole to log black oak and jack pine.																																										
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69	4310 - Pine, Oak Mix	Sapling Medium	29.4	6	1-50	N/A	Stand treated in winter 2014 with timber sale #63-048-12-01, "Fair to Middling Mix".																																										
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70	4310 - Pine, Oak Mix	Poletimber Well	30.1	22	111-140	N/A	No record of treatment could be found. Old OI shows year of origin as 1988. Ring count of jack pine confirms this date. Area of illegal burn on 05/29/88 occurred within the stand. Zones of heavy jack pine, oak, and aspen regen. Small amount of overstory pole to log jack pine and mixed oak.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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71 4122 - Oak, Pine Sawtimber Well 5.1 100 81-110 N/A Leave stand for mast and age class diversity. Trace of aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	60	Log	14	100	Black Cherry	Low	5 - 10 feet	Sapling
White Pine	10	Pole/Log	8		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Jack Pine	30	Log/Pole	10		White Pine	Low	5 - 10 feet	Sapling
					Jack Pine	Low	10 - 20 feet	Sapling

72 42141 - Planted Mixed Pine, Mixed Deciduous Poletimber Well 120.6 48 141-170 N/A Stand scarified and seeded in 1972. Diameters vary throughout stand, pockets of larger diameter pine and oak mixed with pockets of smaller diameters.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Pole/Sapling	7		White Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	20	Pole/Sap/Log	7					
White Pine	15	Pole	8					
Red Pine	10	Pole/Log	8					
Jack Pine	45	Pole	8	48				