



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63002

Entry Year 2020

Acreage: 1,273

County Lake

Management Area: Lake County Moraines

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**Revision Date:** 2018-06-22

**Stand Examiner:** Ryan Adamczyk

**Legal Description:**

T20 R12W, Sections 12, 13, & 24

**Identified Planning Goals:**

Recreation, the Pine River runs through the compartment. The area receives heavy use especially on the Pine River.

**Soil and topography:**

The topography in this compartment ranges from rolling hills to bluffs around the pine river. Soils in this area are Rubicon, Montcalm and Graycalm.

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

This Compartment is in a large area of public land. The compartment is solid state ownership with no in holdings. To the west there is a large area of state ownership. North of the compartment is a large area of the Manistee National forest. To the south and east are areas of private ownership.

**Unique Natural Features:**

Near this compartment the Red-shouldered hawk has nested to the East. The Northern goshawks have nested to west and north. Bald Eagles nest to the south. There is Potential for red-shouldered hawk and goshawk in this compartment.

**Archeological, Historical, and Cultural Features:**

No known sites in the compartment.

**Special Management Designations or Considerations:**

The pine river is a natural river which effects management adjacent to the river. There are also influence zones along state road and near the campgrounds

**Watershed and Fisheries Considerations:**

Maintain the integrity of the Pine River and the developed recreational facilities.

**Wildlife Habitat Considerations:**

Featured wildlife species in this Management Area are diverse reflecting the wide range of habitat types present. Featured Species of wildlife include American Martin, American Woodcock, Beaver, Black Bear, 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. The Pine river corridor provides a focal point for some older forest conditions while aspen stands will provide a variety of younger and mid-age stands.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of an end moraine of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Pennsylvanian Saginaw Formation and the Mississippian Bayport Limestone and Michigan Formation. The Saginaw is quarried for clay, the Bayport for limestone and the Michigan for gypsum in other areas of the State. A gravel pit is located one mile to the east and there is good potential. The nearest oil and gas production is the one well abandoned Luther Field located five miles to the east. The Field produced over 28,000 BO from the Traverse Limestone. The compartment is not currently leased for oil and gas exploration.

**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 at this time.

**Recreational Facilities and Opportunities:**

This compartment contains Silver Creek and Lincoln Bridge campgrounds. The area also contains a lot of trails including the Lincoln hills motorcycle trail, the Lincoln hills ORV route and the silver creek pathway. Canoeing and other uses of the pine river are the most common summer activities in the compartment. Hunting and trapping are also common activities in the area.

**Fire Protection:**

With the heavy recreation use in the area, there is the possibility of human caused starts within the compartment. Some areas also would be difficult access for fire equipment, due to the Pine River corridor. BET 6-4-18

**Additional Compartment Information:**

None at this time.

**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**

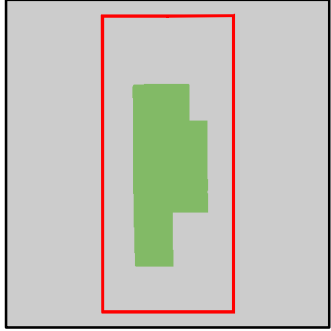
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

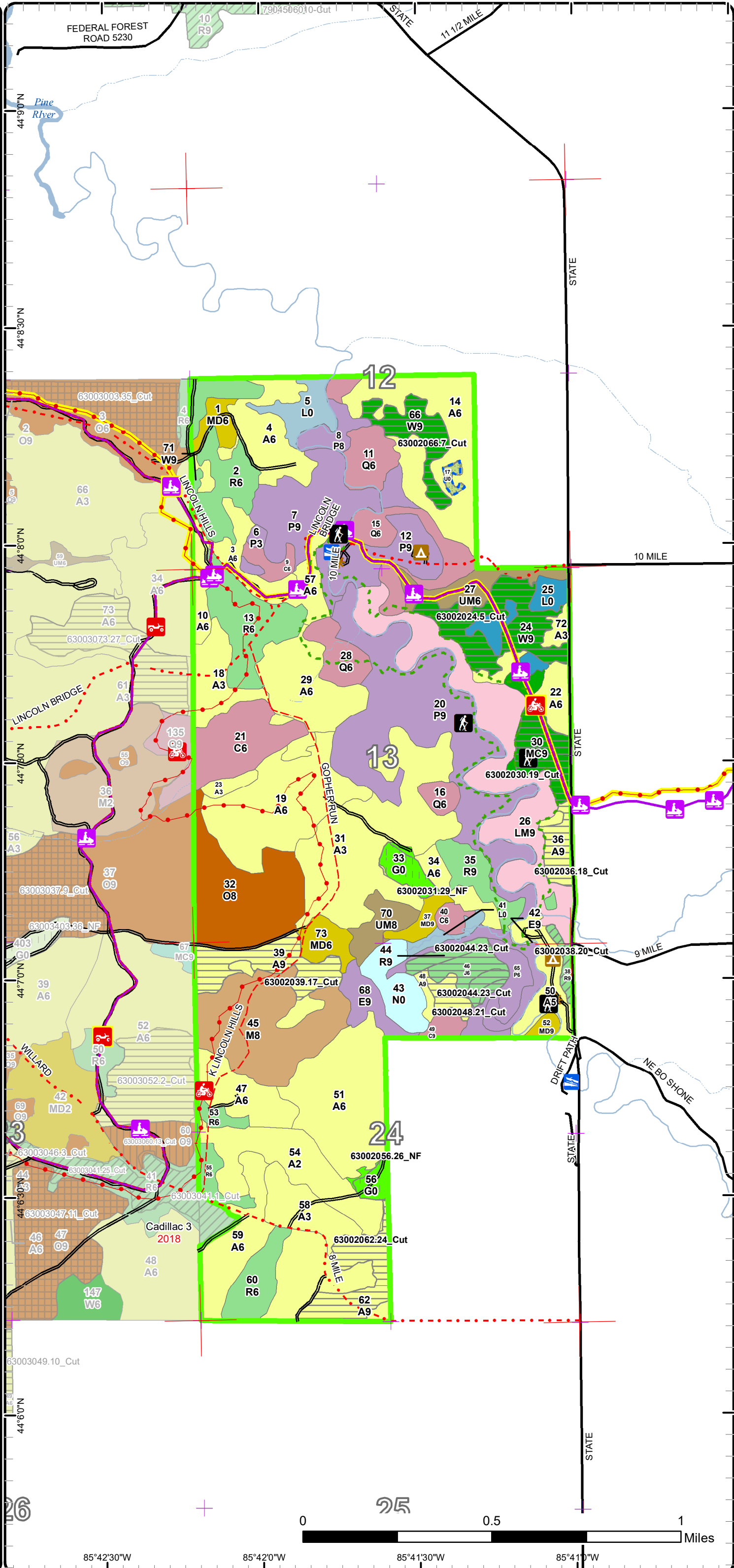
# Cover Type & Treatments Map

Compartment: 2  
T20N - R12W Sec. 12,13,24

County: Lake  
Unit: Cadillac  
Mgmt Area: Lake County  
Moraines  
YOE: 2020  
Acres: 1,273 GIS Calculated  
Examiner: Ryan Adamczyk  
Map Revised: 9/24/2018  
Map Phase: Post - Maps



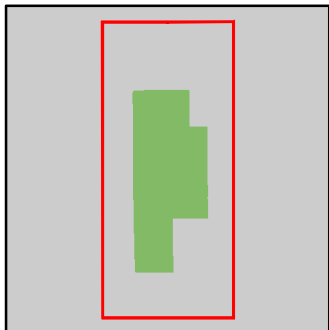
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Hiking Trails
- Motorcycle Trails (DNR License)
- MCCCT Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Perennial River
- Lakes and Rivers All
- Boating Access Site
- Bridges
- Campground
- Trailhead
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Mowing
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 211 - Cropland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes



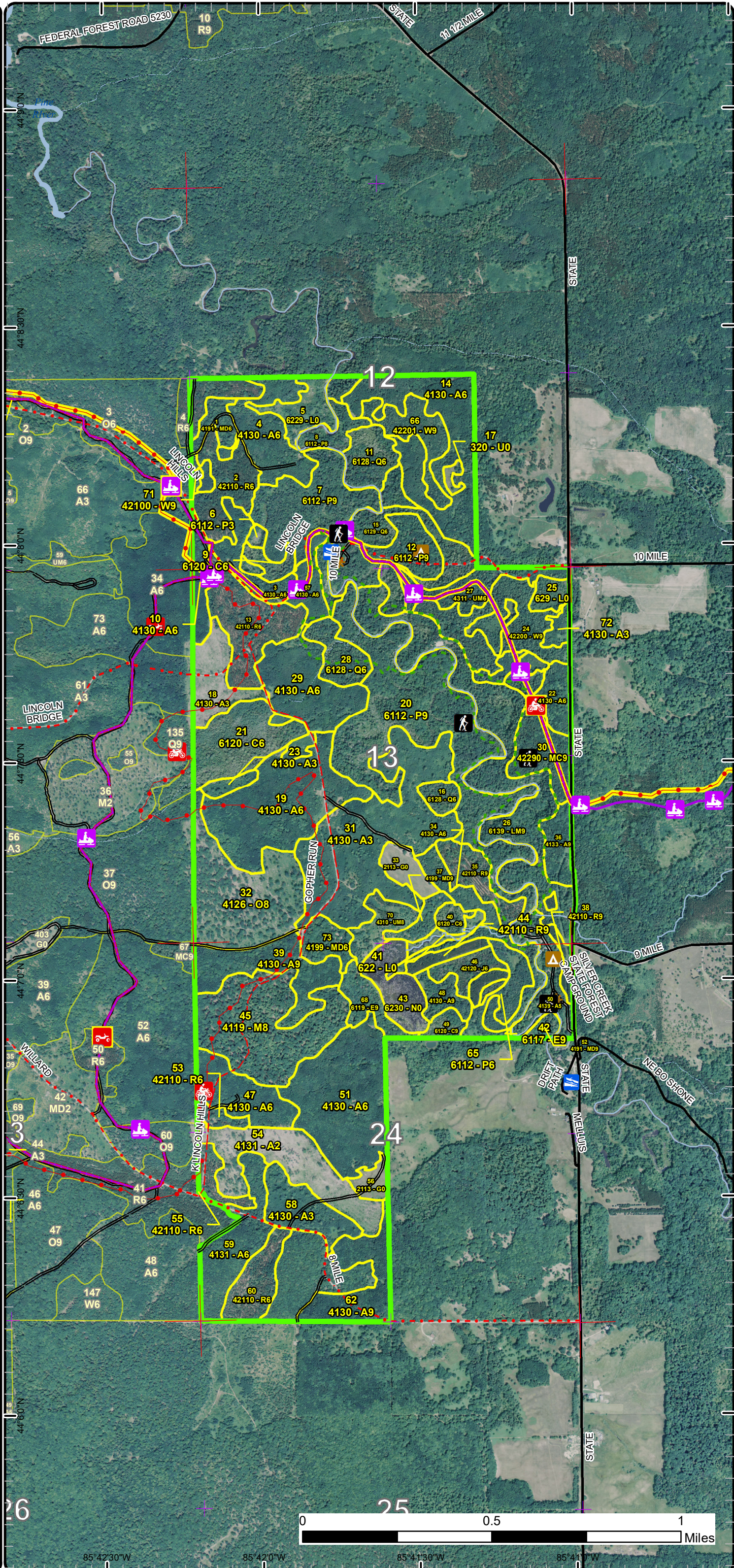
# Stand Boundary Map

Compartment: 2  
T20N - R12W Sec. 12,13,24

County: Lake  
Unit: Cadillac  
Mgmt Area: Lake County  
Moraines  
YOE: 2020  
Acres: 1,273 GIS Calculated  
Examiner: Ryan Adamczyk  
Map Revised: 9/24/2018  
Map Phase: Post - Maps



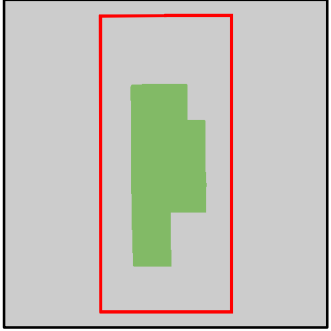
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚶 Hiking Trails
- 🏍️ Motorcycle Trails (DNR License)
- 🚲 MCCCT Trails
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
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- Designated ORV Route
- Designated Snowmobile Trails
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- Intermittent Stream
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- 🚤 Boating Access Site
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- 🏕️ Campground
- 🌟 Trailhead
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- Stand Boundaries
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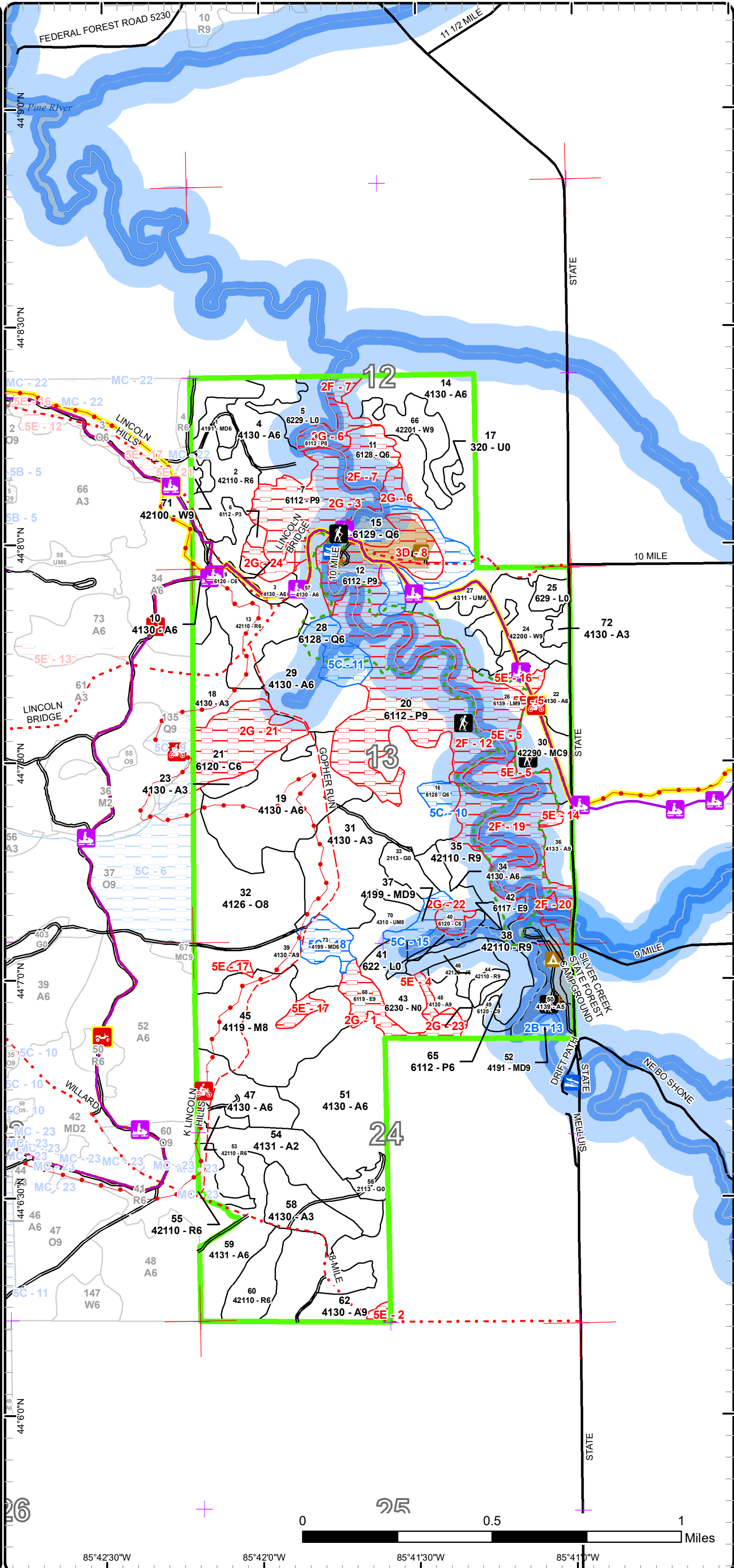
# Special Conservation Areas & Site Conditions Map

Compartment: 2  
T20N - R12W Sec. 12,13,24

County: Lake  
Unit: Cadillac  
Mgmt Area: Lake County  
Moraines  
YOE: 2020  
Acres: 1,273 GIS Calculated  
Examiner: Ryan Adamczyk  
Map Revised: 9/24/2018  
Map Phase: Post - Maps



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Hiking Trails
- Motorcycle Trails (DNR License)
- MCCCT Trails
- ORV Routes
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- Designated Hiking Trails
- - - Designated Bicycle Trails
- - - Designated Ski Trails
- · - · - ORV License & Trail Permit
- - - - - Designated ORV Route
- - - - - Designated Snowmobile Trails
- - - - - Michigan Cross Country Cycle Trail (MCCCT)
- - - - - Intermittent Stream
- - - - - Perennial River
- Lakes and Rivers All
- Boating Access Site
- Bridges
- Campground
- Trailhead
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Wild & Scenic Streams (USFS Lands)
- Cold Water Streams
- High Priority Trout Stream Buffer
- State Forest Campground



85°42'30"W      85°42'0"W      85°41'30"W      85°41'0"W

# Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 2

Year of Entry 2020

Ryan Adamczyk : Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	50	95	54	259	47	10	33	0	0	0	0	0	0	0	0	0	0	547
Cedar	0	0	0	0	0	0	0	0	26	4	9	0	0	0	0	0	0	0	39
Cropland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Jack Pine	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	0	0	3	0	0	12	23	12	125	0	0	0	0	0	0	0	0	0	175
Lowland Conifers	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	51
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	11	21
Lowland Mixed Forest	0	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	63
Lowland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Marsh	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	0	0	0	7	0	0	0	0	3	14	0	0	0	0	0	0	0	23
Natural Mixed Pines	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Northern Hardwood	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	52
Oak	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	0	46
Red Pine	0	0	0	0	0	0	51	51	0	0	0	0	0	0	0	0	0	0	102
Upland Mixed Forest	0	0	0	0	15	0	11	0	0	0	0	0	0	0	0	0	0	0	25
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	0	0	16	31	0	0	0	0	0	0	0	46
<b>Total</b>	<b>56</b>	<b>50</b>	<b>98</b>	<b>54</b>	<b>281</b>	<b>59</b>	<b>95</b>	<b>121</b>	<b>260</b>	<b>126</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>1270</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 2

Total Compartment Acres: 1,273

Commercial Harvest - 132  
 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	54	0	0	0	0	0	0	0	0	54
Jack Pine	9	0	0	0	0	0	0	0	0	9
Natural Mixed Pines	15	0	0	0	0	0	0	0	0	15
Red Pine	8	0	0	0	4	0	0	0	0	11
White Pine	42	0	0	0	0	0	0	0	0	42
<b>Total</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>132</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	132	0	0	0	0	0	0	13	0	145
Next Step	0	0	0	0	0	0	128	0	0	128
<b>Total</b>	<b>132</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>128</b>	<b>0</b>	<b>13</b>	<b>273</b>



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	Approval Status
14	63002014.28_ NF	1.7	4130 - Aspen	Poletimber Well	38	141- 170	NonForestMgt	Mowing	330 - Low- Density Trees		Proposal
<b>Habitat Cut: No</b>			<b>Site Condition: Too Wet</b>								
<u>Prescription</u> Mowed?											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2009											
24	63002024.5_C ut	27.5	42200 - Natural White Pine	Sawtimber Well	95	141- 170	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all merchantable trees besides hemlock and cedar. Use ORV spec to protect the trail. Use appropriate spec to protect Silver Creek											
<u>Specs:</u> Pathway. Do not cut any trees west of the pathway. Mark trees along the pathway and ORV route to protect the trails. Do not cut the detached portion of the unit to the south. This will be retention. Use ORV spec and pathway spec.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, white pine, red pine, oak sp., red maple											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
30	63002030.19_ Cut	15.3	42290 - Natural Mixed Pine	Sawtimber Well	68	141- 170	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all species. Do not cut anything west of silver creek pathway. Mark to leave trees along the pathway and ORV route. Use ORV spec.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> aspen, white pine, red maple, oak sp.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
31	63002031.29_ NF	7.0	4130 - Aspen	Sapling Well	17	Immatur re	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2009											





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	Approval Status
36	63002036.18_ Cut	8.5	4133 - Aspen, Mixed Pine	Sawtimber Well	52	141- 170	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Cut all trees. Do not cut west of silver creek pathway. Mark trees along the pathway to protect the trail. Keep the pocket of mature oak to the north of the stand as retention. Use pathway protection spec. Use grouse spec.

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

Acceptable aspen, oak sp, white pine, red maple  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

38	63002038.20_ Cut	3.5	42110 - Planted Red Pine	Sawtimber Well	67	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut two leave two rows. Access to the northern portion may not be possible due to steep topography to the north and a drainage to the south.  
Specs:

Next Step  
Treatments:

Acceptable red pine  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

39	63002039.17_ Cut	21.0	4130 - Aspen	Sawtimber Well	60	141- 170	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all species. Do not cut any hemlock. There are a couple of hemlock pockets in the western portion. Also, do not cut the southern portion of the stand. There is steep topography making it difficult for equipment to work. Use these areas for retention. Use ORV spec to protect the trail and cycle route. Use grouse spec.

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

Acceptable aspen, oak sp., red maple, white pine  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

44	63002044.23_ Cut	7.6	42110 - Planted Red Pine	Sawtimber Well	67	201+	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all red pine. Leave a pocket or two of red pine in each stand as retention and seed source. Ensure these pockets are away from any potential aspen regen.

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

Acceptable red pine, aspen, red maple, oak, jack pine  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020



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	Approval Status
46	63002046.22_ Cut	8.7	42120 - Planted Jack Pine	Poletimber Well	67	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all merchantable trees.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> red pine, jack pine, oak, aspen, red maple, black cherry											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
48	63002048.21_ Cut	5.2	4130 - Aspen	Sawtimber Well	65	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all species. Do not cut any trees west of the small hill in the western side of the unit. This will be used as retention and a buffer along the											
<u>Specs:</u> pond. Use grouse spec.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> aspen, red maple, black cherry											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
56	63002056.26_ NF	4.2	2113 - Forage Crops Nonstocked			Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2009											
62	63002062.24_ Cut	19.7	4130 - Aspen	Sawtimber Well	49	141- 170	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all species. Green mark occasional sugar maple. Retain the small northern hardwood pocket in the south east corner for retention.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, oak sp., red maple, beech											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
66	63002066.7_C ut	14.9	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	89	111- 140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all merchantable tree species. Leave an area of retention along the west side of the unit that borders the steep slope to the river corridor.

Specs: Access to this unit is a Forest Service two track off of state road.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen sp., white pine, oak sp., red maple, red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

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**Total Treatment  
Acreage Proposed: 144.8**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Ryan Adamczyk : Examiner

Compartment: 2  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2B	5C	2F	2G	3D	5E	
547	538	0	9	Aspen							9
39	0	0	39	Cedar				39			
13	13	0	0	Cropland							
9	9	0	0	Jack Pine							
174	15	0	160	Lowland Aspen/Balsam Poplar			87	49	23		
51	0	36	15	Lowland Conifers		36	15				
21	11	0	10	Lowland Deciduous				10			
63	0	0	63	Lowland Mixed Forest			63				
26	26	0	0	Lowland Shrub							
15	15	0	0	Marsh							
24	6	17	0	Mixed Upland Deciduous	3	14					
16	15	0	1	Natural Mixed Pines							1
52	52	0	0	Northern Hardwood							
46	46	0	0	Oak							
103	102	0	1	Red Pine			1				
25	25	0	0	Upland Mixed Forest							
2	2	0	0	Upland Shrub							
46	43	0	3	White Pine							3
1,273	919	53	300	Total Forested Acres	3	51	166	98	23		13
	72%	4%	24%	Relative Percent							

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Ryan Adamczyk : Examiner

Compartment: 2  
Year of Entry: 2020

2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b> Topography makes this stand very difficult to access. There are many lowland areas throughout the stand that contain sensitive soils as this stand borders the pine river.							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b> Topography makes this stand very difficult to access. This stand borders the pine river.							
7	Unavailable	2F: Too steep	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hemlock and cedar stand. Topography makes this stand very difficult to access. This stand borders the pine river.							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Ryan Adamczyk : Examiner

Compartment: 2  
Year of Entry: 2020

8	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lincoln Bridge Campground and canoe launch on the pine river.							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hemlock and cedar lowland.							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hemlock and cedar lowland.							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hemlock and cedar lowland.							
12	<b>Unavailable</b>	<b>2F: Too steep</b>	87	2G: Too wet (sensitive soils, does not include access issues)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
<b>Comments:</b> This stand has very steep slopes on the western border along the entire stand. Access to this stand would be very difficult. A portion of this stand is also within the the pine river corridor.							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Ryan Adamczyk : Examiner

Compartment: 2  
Year of Entry: 2020

13	Available	2B: Unknown if access through adjacent landowner(s) is possible	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Ryan Adamczyk : Examiner

Compartment: 2  
Year of Entry: 2020

19	Unavailable	2F: Too steep	63	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	6.5	31	51-80	This stand has come back to oak fairly well. The south side has the majority of log sized white pine.
2	42110 - Planted Red Pine	Poletimber Well	26.9	52	111-140	BA is closer to 140. Possibly thin.
3	4130 - Aspen	Poletimber Well	14.0	36	111-140	The ORV route and cycle trail run through a portion of this stand.
4	4130 - Aspen	Poletimber Well	23.4	31	111-140	Steep topography along stand 7 border. Clearcut as part of sale # "63-018-86-02"
6	6112 - Lowland Aspen	Sapling Well	2.7	13	Immature	Attempted habitat cut to encourage cedar regeneration.
7	6112 - Lowland Aspen	Sawtimber Well	37.8	72	111-140	This is a diverse area that borders the pine river much of the area is in the natural rivers buffer other areas of the stand are inaccessible due to topography.
8	6112 - Lowland Aspen	Sawtimber Medium	11.7	68	81-110	
9	6120 - Lowland Cedar	Poletimber Well	4.8	94	81-110	
10	4130 - Aspen	Poletimber Well	8.8	44	81-110	This is a sliver of stand 34 from compartment 3.
11	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	14.9	84	51-80	
12	6112 - Lowland Aspen	Sawtimber Well	23.1	55	51-80	Lincoln Bridge Campground and canoe launch.
13	42110 - Planted Red Pine	Poletimber Well	27.2	61	81-110	Stand 1/3rd row thinned as part of "Ortwein Pine", sale # "63-027-10-01".
14	4130 - Aspen	Poletimber Well	44.9	38	141-170	Access to this stand is directly east off of state rd. It's a two track that passes through federal land. This stand was cut in 1980 as part of sale # "63-006-80-01", "Pine River 12 Block".
15	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	20.3	84	111-140	
16	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.8	85	111-140	
18	4130 - Aspen	Sapling Well	16.4	4	Immature	Stand was cut in 2014 as part of "Gopher Run", sale #63-040-10-01.
19	4130 - Aspen	Poletimber Well	50.2	27	141-170	Stand cut in 1991 as part of sale # "63-022-89-01", "Lincoln Hills 13".

Report 7 – Forested Stands

Compartment: 2  
Year of Entry: 2020



Stand	Cadillac Mgt. Unit		Acres	Stand Age	BA Range	General Comments:
	Level 4 Cover Type	Size Density				
20	6112 - Lowland Aspen	Sawtimber Well	87.1	75	111-140	This stand is mostly lowland that is within the Pine River corridor, mostly inaccessible due to steep banks sloping towards the river along with drainages and sensitive soils. There's lots of variability within this stand but aspen is fairly consistent throughout.
21	6120 - Lowland Cedar	Poletimber Well	26.1	78	111-140	
22	4130 - Aspen	Poletimber Well	13.1	38	141-170	
23	4130 - Aspen	Sapling Well	6.8	13	Immature	Most of the white pine is found in the western stand that can be seen with CIR.
24	42200 - Natural White Pine	Sawtimber Well	30.5	95	141-170	All aspen and red maple were removed in 1990, sale # "63-023-89-01".
26	6139 - Mixed Lowland Forest	Sawtimber Well	62.9	75	111-140	This stand is mostly lowland that is within the Pine River corridor, mostly inaccessible due to steep banks sloping towards the river along with drainages and sensitive soils. There's lots of variability within this stand between age and species but aspen is fairly consistent throughout.
27	4311 - Pine, Aspen Mix	Poletimber Well	15.0	36	111-140	
28	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.3	85	111-140	
29	4130 - Aspen	Poletimber Well	28.9	32	141-170	Stand was clearcut in 1986 as part of sale # "63-043-85-01", "Pine River North Sale".
30	42290 - Natural Mixed Pine	Sawtimber Well	16.4	68	141-170	Cut all species. Do not cut anything west of silver creek pathway. Mark to leave trees along the pathway and ORV route. Retention will be all trees uncut on the west side of the pathway and marked trees along the ORV route and pathway.
31	4130 - Aspen	Sapling Well	70.8	17	Immature	
32	4126 - White, Black, N. Pin Oak	Sawtimber Medium	45.9	72	1-50	Stand cut as part of sale number "63-028-10-01", "Partridge Pups Aspen" in 2014. Cut all species besides oak.
34	4130 - Aspen	Poletimber Well	8.5	35	111-140	Stand was cut in 1983 as part of sale # "63-027-82-01".
35	42110 - Planted Red Pine	Sawtimber Well	12.4	63	111-140	Stand 1/3rd row thinned as part of "Ortwein Pine", sale # "63-027-10-01".
36	4133 - Aspen, Mixed Pine	Sawtimber Well	9.5	52	141-170	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.5	95	51-80	
38	42110 - Planted Red Pine	Sawtimber Well	4.2	67	201+	This stand is directly adjacent to silver creek campground. Cut two leave two.
39	4130 - Aspen	Sawtimber Well	25.3	60	141-170	
40	6120 - Lowland Cedar	Poletimber Well	3.8	85	111-140	
42	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	11.2	48	141-170	This stand follows a drainage from stand 43 to the pine river. It also continues along the pine river.
44	42110 - Planted Red Pine	Sawtimber Well	7.6	67	201+	The northern stand was 1/3rd row thinned and has a higher average DBH (12" vs 10"). Clearcut the northern stand and 1/3rd row thin the southern stand. A bridge or culvert is needed to access these stands for a 8' wide creek just to the north. Possibly plant back to red pine.
45	4119 - Mixed Northern Hardwoods	Sawtimber Medium	51.6	84	51-80	Stand treated 2012, sale # "63-056-10-01", "Shade Gap Hardwood".
46	42120 - Planted Jack Pine	Poletimber Well	8.7	67	141-170	There's lots of jack pine falling out of this stand. Clearcut and possibly plant to red pine.
47	4130 - Aspen	Poletimber Well	19.3	31	141-170	Stand was clearcut in 1987 as part of sale # "63-042-85-01", "Lincoln Hills 24 Sale".
48	4130 - Aspen	Sawtimber Well	7.2	65	111-140	Cut all species. Use the western 1/3 of this stand that's along stand 43 as retention. The retention is mostly red oak, white pine, sugar maple.
49	6120 - Lowland Cedar	Sawtimber Well	4.1	98	111-140	
50	4139 - Aspen, Mixed Deciduous	Poletimber Medium	16.7	45	51-80	This stand is the silver creek camp ground there is a mix of species at low densities thought the camp ground with aspen and sugar maple making up most of the trees in the stand. Probably invasive species present in the under story.
51	4130 - Aspen	Poletimber Well	50.7	35	141-170	Stand was clearcut in 1983 as part of sale # "63-032-80-01".
52	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	2.7	80	81-110	This stand is only accessible through private land.
53	42110 - Planted Red Pine	Poletimber Well	3.7	56	81-110	
54	4131 - Aspen, Oak	Sapling Medium	34.0	4	1-50	Cut as part of sale # "63-040-10-01", "Gopher Run" in spring 2014.

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## Cadillac Mgt. Unit

## Report 7 – Forested Stands

Compartment: 2  
Year of Entry: 2020

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	42110 - Planted Red Pine	Poletimber Well	6.5	50	111-140	
57	4130 - Aspen	Poletimber Well	8.5	37	141-170	Stand was clearcut in 1982 as part of sale # "63-003-81-01", "Pine River Aspen Sale".
58	4130 - Aspen	Sapling Well	17.2	17	111-140	Stand was cut in 2001 as part of "Willard Road Aspen", sale #63-007-00-01.
59	4131 - Aspen, Oak	Poletimber Well	47.7	35	81-110	
60	42110 - Planted Red Pine	Poletimber Well	14.2	57	81-110	Stand 1/3rd row thinned as part of "Ortwein Pine", sale # "63-027-10-01".
62	4130 - Aspen	Sawtimber Well	21.5	49	141-170	
65	6112 - Lowland Aspen	Poletimber Well	12.0	46	Unspecified	
66	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	14.9	89	111-140	All aspen and mixed hardwood was cut from this stand in 1980.
68	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	10.0	92	111-140	This stand is inaccessible due to very steep slopes.
70	4310 - Pine, Oak Mix	Sawtimber Medium	10.5	56	51-80	Cut the planted red pine. Heavy beaver activity in this stand.
71	42100 - Planted White Pine	Sawtimber Well	1.1	82	111-140	
72	4130 - Aspen	Sapling Well	3.5	28	Immature	
73	4199 - Other Mixed Upland Deciduous	Poletimber Well	8.9	95	81-110	There's a deer camp in this stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
5	6229 - Mixed lowland shrub	11.1	No	
17	320 - Upland Shrub	1.7	No	This area was trenched but never planted
25	629 - Mixed non-forested wetland	11.2	No	
33	2113 - Forage Crops	7.5	No	Managed wildlife opening.
41	622 - Lowland Shrub	4.1	No	There's a large beaver dam along stand 43.
43	6230 - Cattail	15.2	No	This lowland beaver pond is filled with dead cedar snags.
56	2113 - Forage Crops	5.0	No	managed wildlife opening