



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63083

Entry Year 2028

Acreage: 1,931

County: Missaukee

Management Area: High Sand Plains

Stand Examiner: Andrew Krugh

Legal Description:

T25N, R5W, Sec. 22, 23 & 24

Identified Planning Goals:

Vegetation management in the High Sand Plains (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 balancing the aspen age-class distribution. 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 the next decade are the need to continue to balance aspen age-class distributions, an expected increase in recreation pressure and invasive species encroachment.

Soil and topography:

Lupton-Roscommon-Tawas association. Terrain is flat and poorly drained.

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

All ownership in the compartment is state ownership. Multiple oil and gas wells located throughout the area as part of the Norwich oil field.

Unique Natural Features:

The Natural Features Inventory list a Great Blue Heron Rookery is section 22. Little evidence of the rookery now exist having been abandoned for a number of years. The Dead Stream Swamp is an exceptionally large example (one of the largest in the United States) of a northern white cedar swamp, considered to be the climax in bog forest development. Large white cedar swamps are disappearing, partially due to the demand for this timber product. Besides swamp forest, the Landmark contains approximately 800 acres of deciduous upland forest; shrubs and sedges bordering the lower reaches of Dead Stream; and the 60-acre Bear Lake, a bog pond bordered by an expansive sphagnum-heath mat.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

This compartment falls entirely in the Dead Stream Swamp National Landmark. All motorized land equipment shall be confined to public roads, and to department designated interior roads and parking areas, except under specific permits issued by the Department of Natural Resource.

Watershed and Fisheries Considerations:

Willow Creek and Cole Creek flow through Compartment 83. Both are designated trout streams, likely with populations of brook trout. The Dead Stream flows just to the south of Compartment 83. All these streams are tributaries of the Muskegon River.

Wildlife Habitat Considerations:

This compartment is found within the Deadstream Swamp, an important deeryard and core bear area. Featured wildlife species are deer, bear, hare, and pileated woodpecker. Management emphasis for this compartment includes maintaining the National Natural Landmark and Dedicated Natural Area features that characterize the swamp. Maintenance of lowland conifer types, protection of cedar and hemlock, and appropriate buffers for wetland areas to maintain hydrology are important. Large, contiguous stands of mature forested tracts, especially along riparian corridors will ensure maintenance of wildlife movement corridors. (Victory, 5/24/16)

Mineral Resource and Development Concerns and/or Restrictions

There is no known potential for the occurrence of economic deposits of metallic minerals in this part of the state. No active sand/gravel operations are known to exist in the area. There may be some potential for sand and gravel within the compartment, but potential for development seems low due to abundant wetlands. The compartment occurs at the southern

end of the East Norwich oil & gas field. Active production still occurs from wells in Section 22. The field has been undergoing secondary recovery operations and is unlikely to expand. There is no current leasing activity in the compartment, and the only State mineral leasing within one mile is that associated with the East Norwich field. There has been no recent well permit activity in the area. Potential for future oil & gas development within the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

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:

Recreational Facilities and Opportunities:

There are no designated trails within this compartment (T.N. 1/29/16)

Fire Protection:

This area is mostly lowland. Access for suppression equipment would be difficult. May be limited to low ground pressure equipment and Amphibious equipment. There are several old gas/oil well sites, which would be of concern.

Additional Compartment Information:

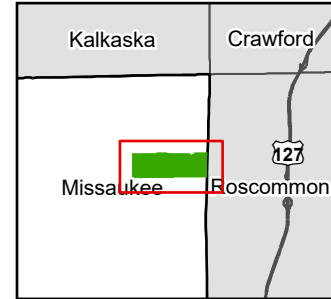
The following reports from the Inventory are attached:

- 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**

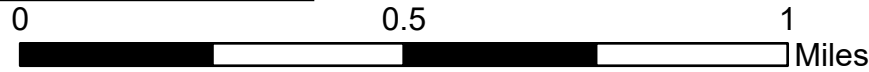
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatments Map



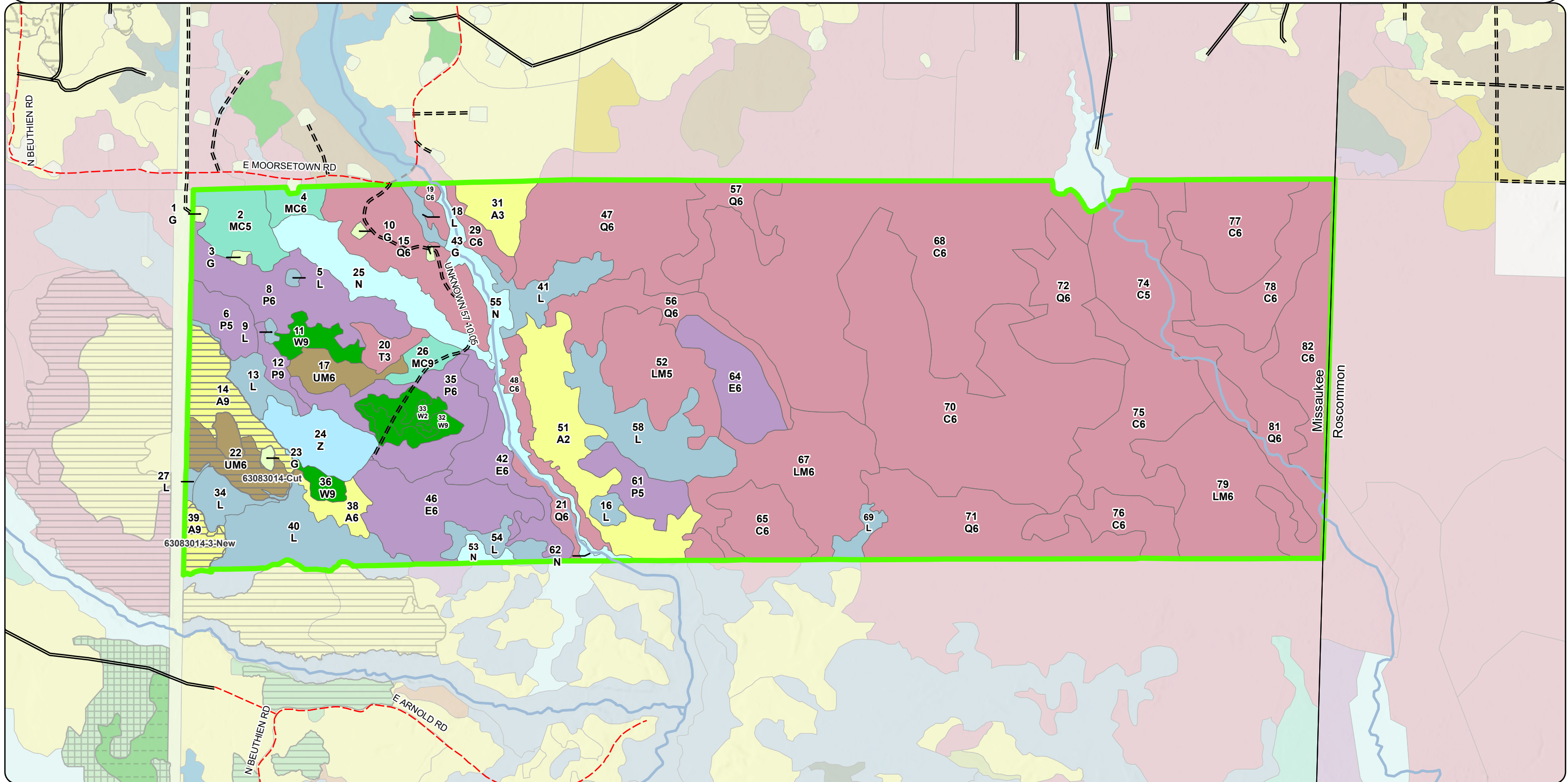
Compartment: 63083
T24N, R05W, Sec. 22-24
County: Missaukee
Unit: Cadillac
Mgmt. Area: High Sand Plains
YOE: 2028
Acres: 1,931 GIS Calculated
Examiner: Andrew Krugh
Date Exported: 07/14/2026
Map Phase: Web Post



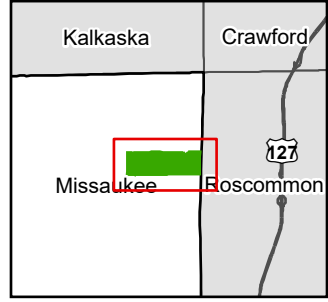
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Compartment Boundary

- Clearcut
- 413 - Aspen
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest

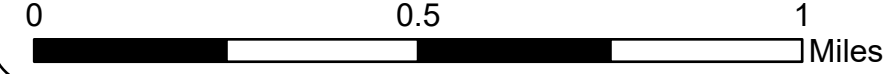
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map

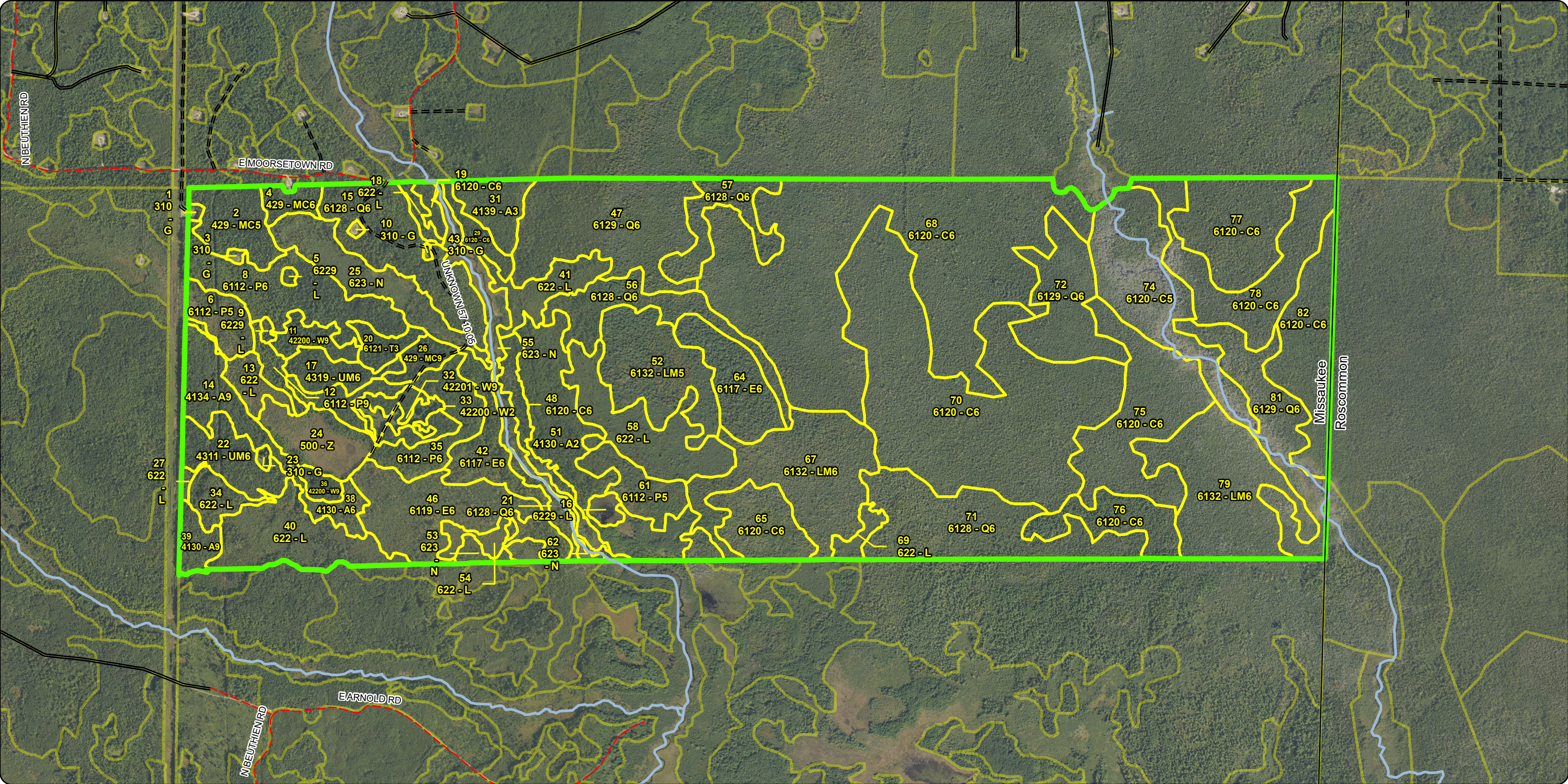


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- Compartment Stand Yellow Outline (PD)
- 413 - Aspen
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- 429 - Mixed Upland Conifers
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- 500 - Water
- 611 - Lowland Deciduous Forest
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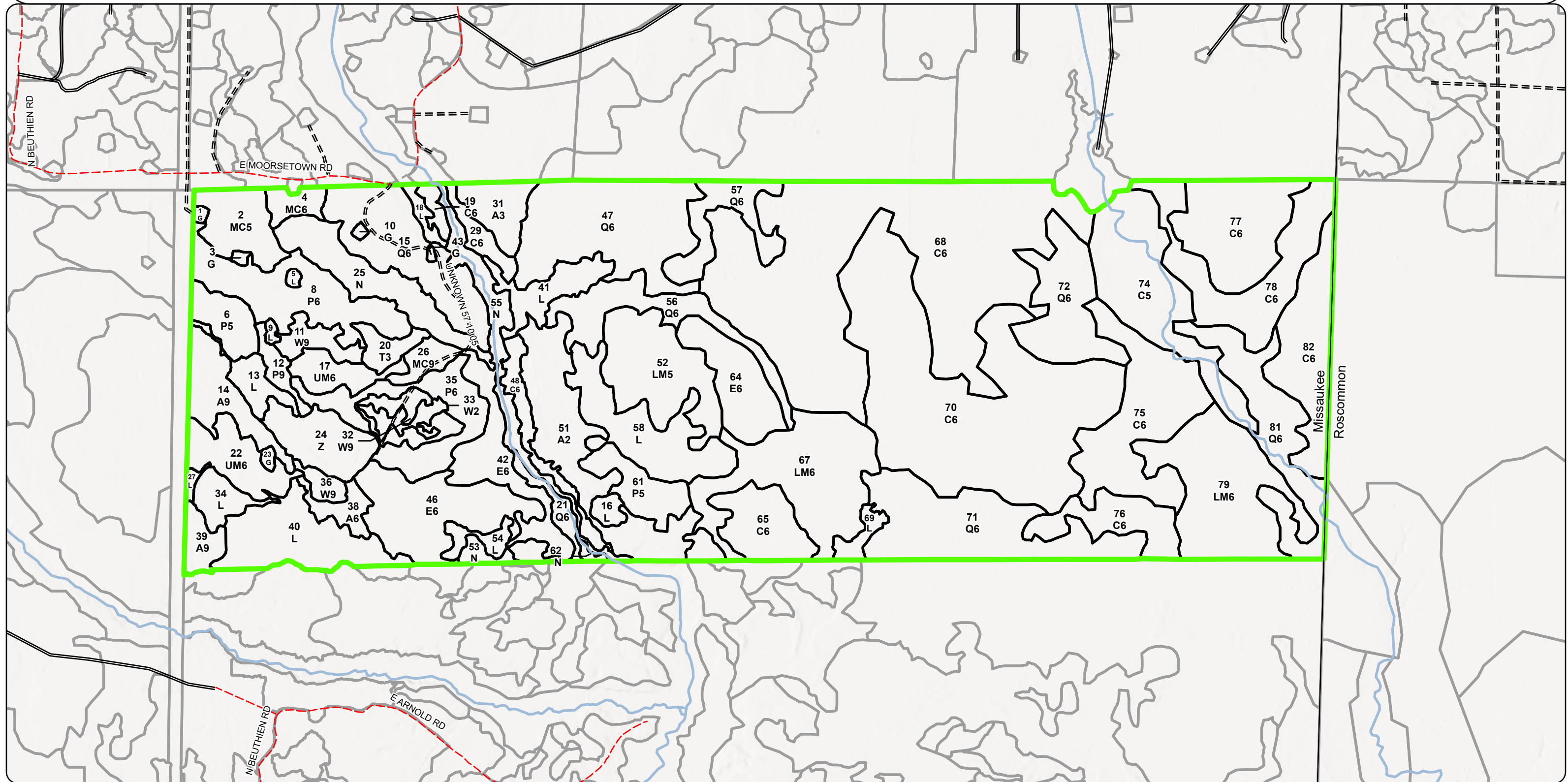


A horizontal scale bar with a black border. It is divided into four segments by three vertical tick marks. The segments are colored black, white, black, and white from left to right. Above the bar, the numbers 0, 0.5, and 1 are placed at the first, second, and third tick marks respectively. To the right of the bar, the word "Miles" is written.

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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	71	0	0	23	9	9	0	0	0	0	0	0	0	0	0	112
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	740	0	0	0	0	0	740
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	0	0	0	0	45	6	52	14	0	0	0	0	0	0	0	0	0	117
Lowland Conifers	0	0	0	0	0	0	0	47	0	0	0	0	281	0	0	0	0	0	328
Lowland Deciduous	0	0	0	0	0	0	0	0	77	0	0	0	29	0	0	0	0	0	105
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	178	0	0	0	0	0	178
Lowland Shrub	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
Marsh	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Tamarack	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	0	8	0	30	0	0	0	0	0	0	0	0	38
Upland Mixed Forest	0	0	0	0	0	0	0	13	22	0	0	0	0	0	0	0	0	0	35
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
White Pine	0	0	7	0	0	0	0	5	22	0	0	0	0	0	0	0	0	0	34
Total	235	0	7	71	8	45	29	134	144	30	0	0	1228	0	0	0	0	0	1930



Report 2 – Treatment Summary

Cadillac Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 83
Total Compartment Acres: 1,931

Commercial Harvest - 98
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		49	0	0	0	0	0	0	0	0	49
	Total	49	0	0	0	0	0	0	0	0	49

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		49	0	0	0	0	0	0	0	0	49
Next Step		0	0	0	0	0	49	0	0	0	49
	Total	49	0	0	0	0	49	0	0	0	98



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:

39	63083014-3-New	8.6	4130 - Aspen	9	64	Unspec ified	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final Harvest leave all white pine over 20 inches in diameter. No retention due to small size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen with mixed conifer accepted as well. <u>Regen:</u> <u>Other</u> Area has long had access issues . With 2022 push for extra acres this area has been identified. Two bridges will be needed. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 05/06/2022											
14	63083014-Cut	40.3	4134 - Aspen, Spruce/Fir	9	58	1-50	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final Harvest leave all white pine/ red pine over 12 inches in diameter. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen with mixed conifer accepted as well. <u>Regen:</u> <u>Other</u> Area has long had access issues . With 2022 push for extra acres this area has been identified. Two bridges will be needed. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 05/06/2022											

Total Treatment 48.9
Acreage Proposed:



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

2G 3J 5E

111	111	0	0	Aspen			
736	0	0	737	Cedar	711	26	
4	4	0	0	Herbaceous Openland			
118	86	0	32	Lowland Aspen/Balsam Poplar	32		
328	47	0	281	Lowland Conifers	274	7	
105	0	0	105	Lowland Deciduous	86	20	
179	0	0	179	Lowland Mixed Forest	179		
146	146	0	0	Lowland Shrub			
61	61	0	0	Marsh			
8	8	0	0	Tamarack			
37	37	0	0	Upland Conifers			
18	13	0	4	Upland Mixed Forest			4
24	24	0	0	Water			
33	33	0	0	White Pine			
1,909	572		1,338	Total Forested Acres	1,281	52	4
	30%		70%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2	Unavailable		2G: Too wet (sensitive soils, does not include access issues)	1,192	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Stand is located in the Dead Stream Swamp and is inaccessible due to various habitat and water issues.								
3	Unavailable		5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 22 and 14.								

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh: Examiner

Compartment: 83
Year of Entry: 2028



4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sale to the west was pushed as far as possible and this portion was not accessible.							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	52	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	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
Comments				



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
24	500 - Water	None	24.2			No	beaver dam along the southeastern edge.																																													
25	623 - Emergent Wetland	None	32.5			No	Stand is located in the riparian area of willow run creek. It is a cedar stand with scattered balsam fir and black spruce. Contains some aspen and black ash.																																													
26	429 - Mixed Upland Conifers	Sawtimber Well	7.6	66	111-140	N/A	Stand contains a small area of planted red pine in the middle of the stand. Stand is too small to map separately.																																													
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Quaking Aspen</td><td>15</td><td>Pole/Sap/Log</td><td>8</td><td></td><td>Balsam Fir</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Pine</td><td>50</td><td>Log/Pole</td><td>12</td><td>66</td><td></td><td></td><td></td><td></td></tr><tr><td>Balsam Fir</td><td>20</td><td>Pole</td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Red Maple</td><td>15</td><td>Pole/Sap/Log</td><td>9</td><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	15	Pole/Sap/Log	8		Balsam Fir	Low	5 - 10 feet	5 - 10 feet	Red Pine	50	Log/Pole	12	66					Balsam Fir	20	Pole	8						Red Maple	15	Pole/Sap/Log	9					
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27	622 - Lowland Shrub	None	1.5			No																																														
29	6120 - Lowland Cedar	Poletimber Well	8.1	114	1-50	N/A	This is a cedar stand in the floodplain of Willow Run Creek. High water levels are starting to decrease the quality of the remaining trees. much of the cedar is in decline																																													
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31	4139 - Aspen, Mixed Deciduous	Sapling Well	15.8	26	Unspecified	N/A	Stand was harvested in 2001 by a winter cut.																																													
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32	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	11.9	77	111-140	N/A																																														
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33	42200 - Natural White Pine	Sapling Medium	6.6	12	Immature	N/A	old opening managed by wildlife division.Stand is continuing to fill in with White and red pine.																																													
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MICHIGAN

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34	622 - Lowland Shrub	None	10.4			No																																				
35	6112 - Lowland Aspen	Poletimber Well	34.0	65	111-140	N/A	A mix of aspen, red maple and black ash with a tag alder understory.Stand is looking healthy. Leave for atleast another inventory cycle. (AK26)																																			
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>25</td><td>Pole/Sapling</td><td>7</td><td></td></tr><tr><td>Quaking Aspen</td><td>45</td><td>Pole/Sapling</td><td>7</td><td>65</td></tr><tr><td>Balsam Fir</td><td>10</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>Black Ash</td><td>20</td><td>Pole</td><td>5</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	25	Pole/Sapling	7		Quaking Aspen	45	Pole/Sapling	7	65	Balsam Fir	10	Pole/Sapling	6		Black Ash	20	Pole	5				<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	5 - 10 feet				
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36	42200 - Natural White Pine	Sawtimber Well	5.0	67	81-110	N/A	Stand is a small area of planted white pine on a knoll in the south of the compartment.																																			
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38	4130 - Aspen	Poletimber Well	8.6	76	Unspecified	N/A	A stand of aspen and red maple along a ridge in the deadstream swamp.Stand has the potential for a habitat cut. Was previously prescribed and was terminated before treatment.(JM16)																																			
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39	4130 - Aspen	Sawtimber Well	9.2	64	Unspecified	N/A	Stand is a mix of aspen, red maple, and black ash.																																			
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40	622 - Lowland Shrub	None	39.7			No																																				
41	622 - Lowland Shrub	None	17.4			No																																				
42	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	29.3	75	Unspecified	N/A	Flooded red maple stand. Mix of red maple, black ash, and aspen with a tag alder understory. Seasonally flooded but drier than the stand to the south.																																			
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>10</td><td>Log/Pole</td><td>11</td><td></td></tr><tr><td>Northern White Cedar</td><td>10</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Yellow Birch</td><td>5</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>White Spruce</td><td>20</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>50</td><td>Pole</td><td>8</td><td>75</td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	White Pine	10	Log/Pole	11		Northern White Cedar	10	Pole	8		Yellow Birch	5	Pole/Sapling	6		White Spruce	20	Pole	8		Paper Birch	5	Pole	8		Red Maple	50	Pole	8	75					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
68	6120 - Lowland Cedar	Poletimber Well	224.3	117	Unspecified	N/A	Cedars have dead tops. Stand was visited at the northern edge during the winter of 2005 after a snowmobile ride down a long abandoned well site access road. No change since last inventory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Pole	5		Balsam Fir		Medium	5 - 10 feet	5 - 10 feet
Balsam Poplar		10	Log/Pole	10		Tag Alder		Medium	5 - 10 feet	5 - 10 feet
Balsam Fir		25	Pole	5						
Black Spruce		7	Pole	7						
Northern White Cedar		50	Pole	6	117					
Hemlock		3	Pole	6						
69	622 - Lowland Shrub	None	5.7			No				
70	6120 - Lowland Cedar	Poletimber Well	179.2	113	Unspecified	N/A				
71	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	65.3	112	Unspecified	N/A	Stand may contain aspen as it is near to a winter aspen sale previously done in compartment 84			
72	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	39.0	111	Unspecified	N/A	mix of cedar, black spruce, balsam fir, red maple, and BAM			
74	6120 - Lowland Cedar	Poletimber Medium	59.1	113	Unspecified	N/A	Many dead snags due to flooding of Cole creek and beaver dam.			
Canopy Species		% Cover	Size Class	DBH	Age					
Balsam Fir		20	Sapling/Pole	4						
Northern White Cedar		80	Pole	6	113					
75	6120 - Lowland Cedar	Poletimber Well	61.4	112	Unspecified	N/A	cedar, ash, red maple stand in middle of Dead Stream swamp			
76	6120 - Lowland Cedar	Poletimber Well	24.2	112	Unspecified	N/A	Stand of cedar, balsam fir, red maple, and aspen. denser canopy than surrounding areas.			
77	6120 - Lowland Cedar	Poletimber Well	46.1	113	Unspecified	N/A	Cedar stand with an ash/aspen component			
78	6120 - Lowland Cedar	Poletimber Well	49.3	112	Unspecified	N/A	cedar stand with a mix of ash, aspen, balsam fir, and black ash.			
79	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	66.4	112	Unspecified	N/A	Stand is a mix of cedar and lowland hardwoods such as black ash and red maple,			
81	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	45.4	113	Unspecified	N/A	Age from previous OI done in 1996			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
82	6120 - Lowland Cedar	Poletimber Well	42.1	112	Unspecified	N/A	Age from previous OI done in 1996.