



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63079

Entry Year 2024

Acreage: 2,006

County Missaukee

Management Area: Manistee River Valley

Stand Examiner: Matt Edison

Legal Description:

T24N, R5W, Sec. 6, 7, 8 and 18

Identified Planning Goals:

This area has been managed intensively for wildlife and contains the Cannon Creek Waterfowl Flooding. Vegetation goals this period include continuing to balance aspen age-class distribution, as well as to continue managing red pine on this dry-mesic landscape.

Soil and topography:

Predominately flat ground with a lowland complex in sections 6 and 7 (Cannon Creek Flooding and associated wetlands). Rubicon and Gray calm-Rubicon Sands and Tawas Mucky Peat's in lowlands.

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

Solid state ownership in sections 6, 7 and 8. The NE of section 18 is state. No lands are desired and no lands are in excess of our needs.

Unique Natural Features:

Potential for dry prairie plants in grassy openings. Hill's thistle, rough fescue, prunus alleghaniensis and pale agoseris. Potential for dusted skipper and red-legged spittlebug in grassy openings. Potential for Massasauga along Cannon Creek. Potential for secretive locust. There are several stands in section 7 and 18 that have large diameter red and white pine that are remnants from the pine logging era of the early 1900's.

Archeological, Historical, and Cultural Features:

Part of the historic town of Stratford is located in Section 6 as well as the Smith and Hull grades. Interpretive signs are located along 13 Mile Road.

Special Management Designations or Considerations:

The Big Cannon Creek No. 1 Flooding (SCA – Wildlife Management Area) is located in Section 6. A water control structure is in place on this flooding.

Watershed and Fisheries Considerations:

Big Cannon Creek, a high-quality tributary to the Manistee River, flows through Compartment 79. Big Cannon Creek is a Designated Trout Stream. Further downstream in Kalkaska County, Big Cannon Creek hosts excellent populations of naturally-reproducing brook, brown, and rainbow trout. In the vicinity of Compartment 79, Big Cannon Creek is degraded by impoundments and has water temperatures that are likely too warm for trout. All BMPs should be followed in wet areas near the streams. (M. Tonello, 9/25/12)

Wildlife Habitat Considerations:

This compartment includes a proposed management area for eastern massasauga rattlesnake under the Draft Candidate Conservation Agreement with Assurances between MDNR and U.S. Fish and Wildlife Service, which provides guidelines for management. In addition, this compartment contains Cannons Creek 1 and 2 Floodings, both FMU Approved Special Conservation Areas, and both established for waterfowl and furbearer production. Timber treatments adjacent to the floodings will focus on young aspen for beaver, acorn production and cavity trees for wood duck, and appropriate wetland buffers to fulfill that establishing purpose. Featured species guidance will be considered for American bittern, American woodcock, beaver, black bear, eastern massasauga rattlesnake, mallard, pileated woodpecker, ruffed grouse, snowshoe hare, white-tailed deer, and wood duck. (E. Victory 9/2012)

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is just over three miles to the northwest. There appears to be some potential for sand & gravel on the uplands in the compartment. The compartment is just west of the East Norwich oil field. New development wells in the compartment are unlikely. State-owned mineral rights adjacent to and in the vicinity of the compartment have been leased in the recent past, and there was some past well permit activity, but there is no known potential for commercial production

from known producing formations beneath the compartment. 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:

There is work needed in Section 18 to establish private property lines.

Recreational Facilities and Opportunities:

:The North Missaukee ORV Route and Snowmobile Trail # 6 (winter use) share the same tread & pass through the northern portion of this Compartment. The North Missaukee ORV trail and Michigan Cross Country Cycle Trail (MCCCT) share the same tread in the north central portion of this Compartment. The North Missaukee Motorcycle Trail dips into the northwest portion of this compartment. The North Missaukee Motorcycle Trail is designated by Directors Order to remain 2 wheeled vehicles only trail- therefore this trail should be kept tight, narrow, and curvy. A recently renovated trailhead is found near the intersection of Oil Field and 13 Mile Rd. Proposed timber management objectives should include trail protection specifications to reduce impacts, as well as serve as an example of how silviculturally sound timber harvesting methods can co-exist, and often improve recreation and wildlife experiences for future generations. (T.M.N. 8-30-12)

Fire Protection:

Wildfire suppression is the responsibility of Houghton Lake Field office. County and State Forest roads provide access to the compartment. The area west of North 13 road and south of the ORV/Snowmobile trail, is low and very wet which will limit the use of mechanized equipment. The ORV / Snowmobile trail is within the compartment and needs to be considered during wildfire suppression and prescribe burns. (BET 8-1-12)

Additional Compartment Information:

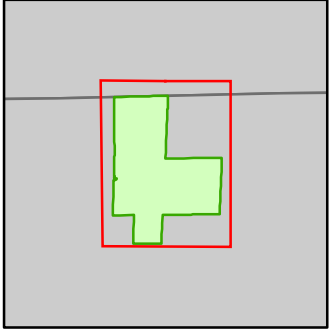
The following reports from the Inventory are attached:

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

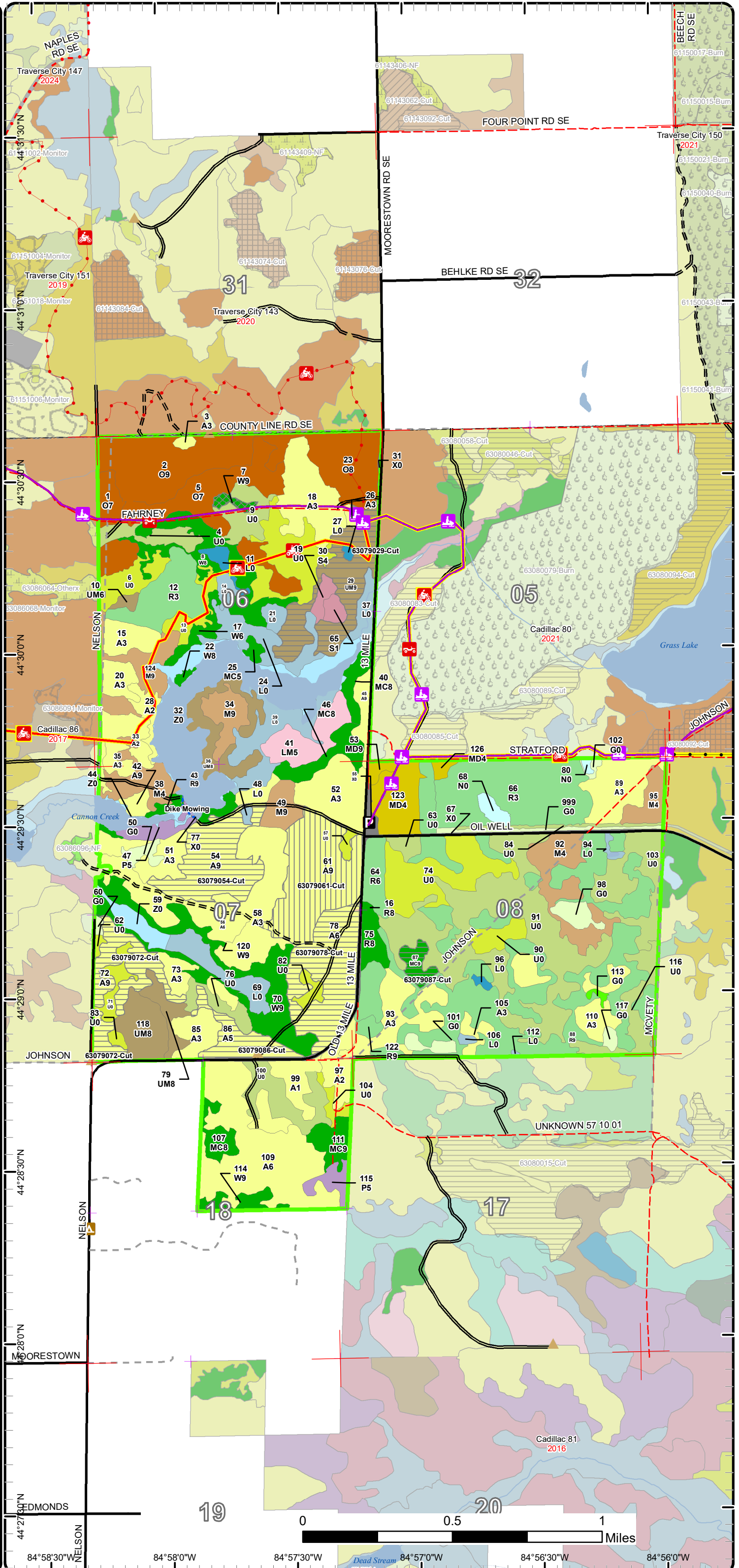
The following information is displayed, where pertinent, on the attached compartment maps:

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

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 T24N R5W Sec. 06,07,08,18
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Manistee River Valley
 YOE: 2024
 Acres: 2006.2 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 10/4/2022
 Map Phase: Post-Maps

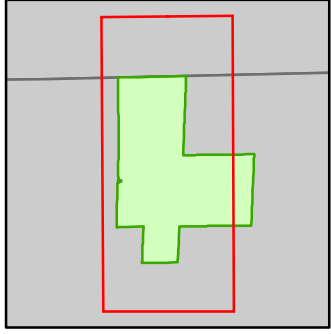


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
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- Lakes and Rivers
- ▲ Berms
- ▼ Culvert
- ▲ Campground
- P Parking Lot
- Compartment Boundary
- Treatments with Site Conditions
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- 412 - Oak Types
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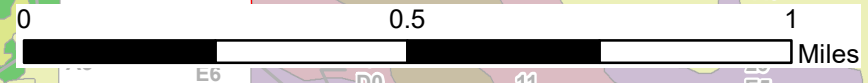
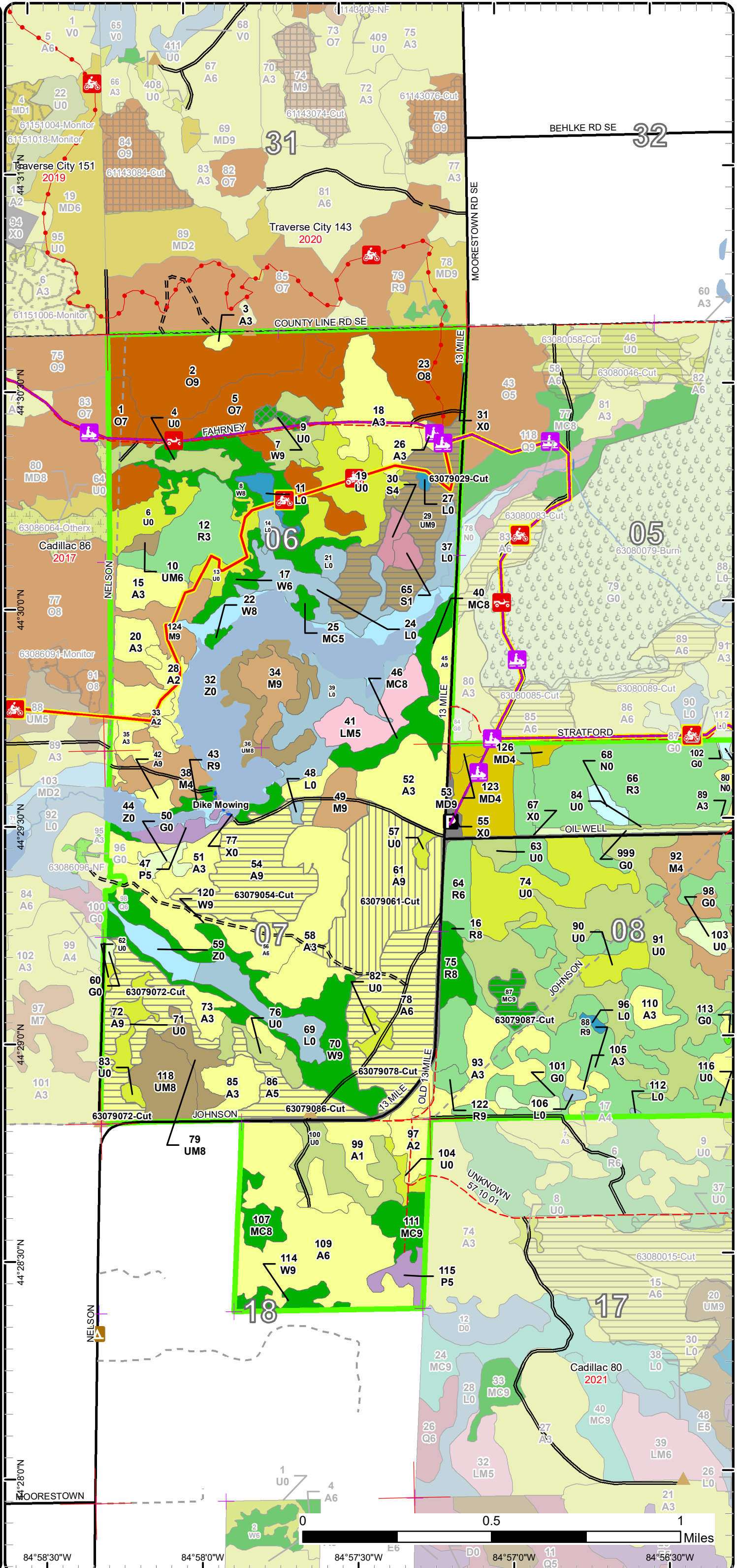


Cover Type & Treatments Map

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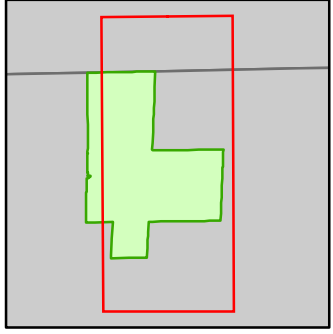
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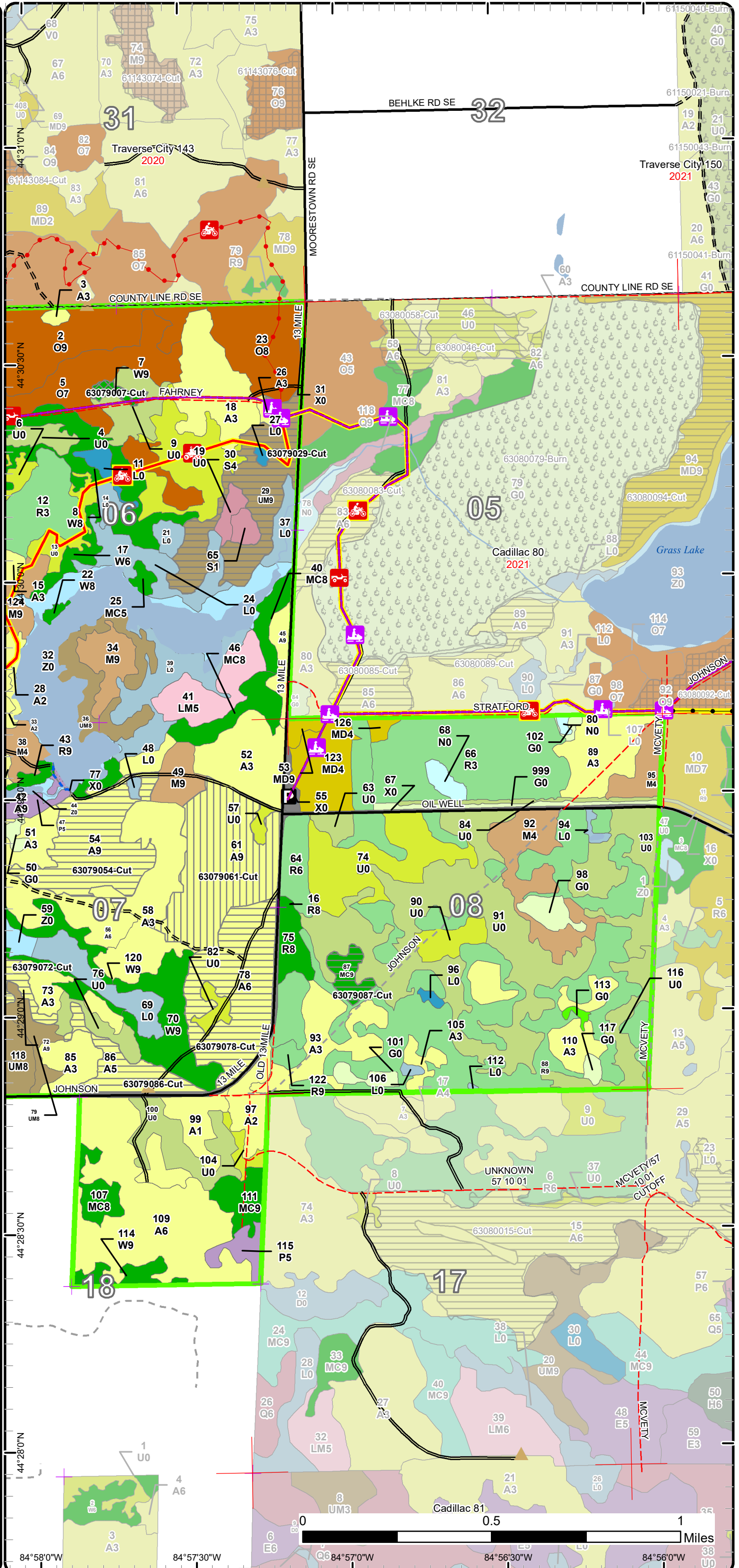
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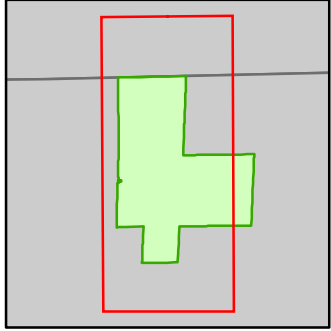


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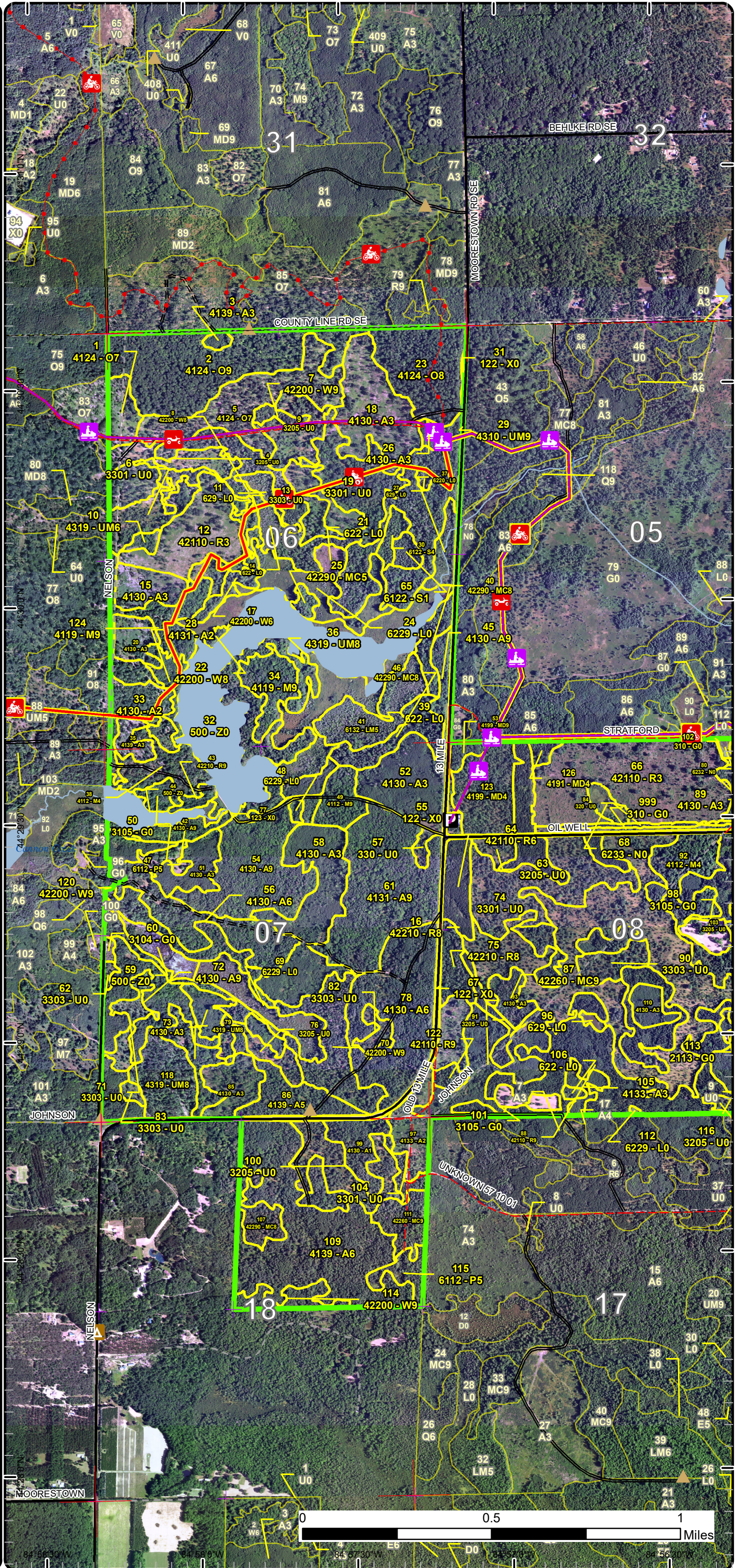


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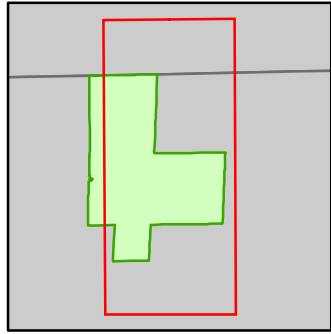


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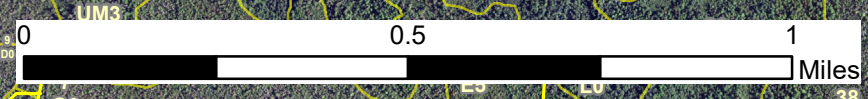
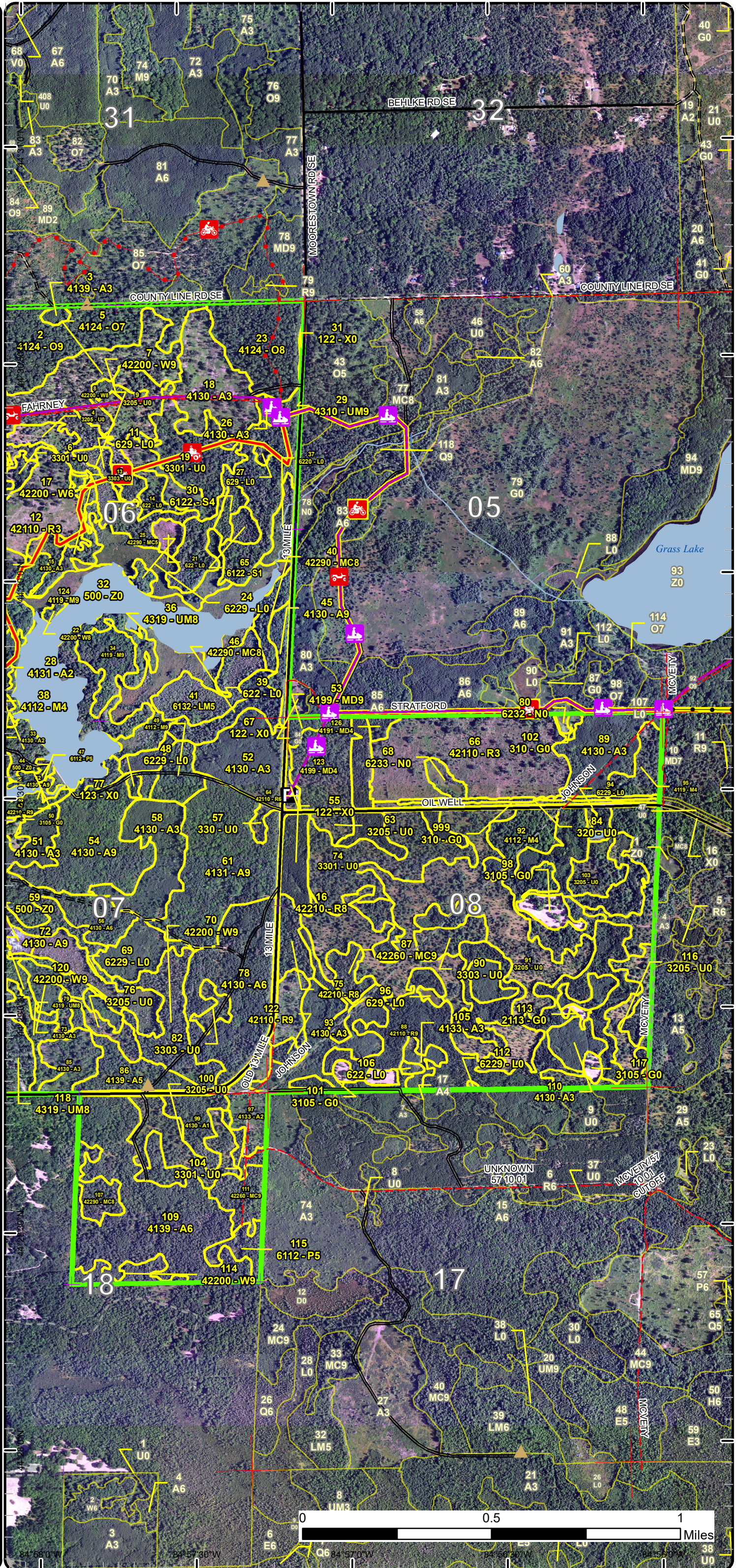


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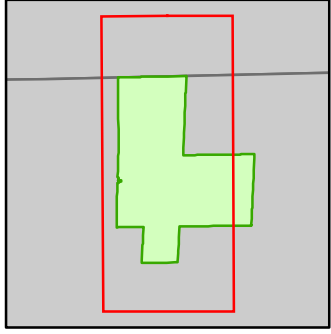
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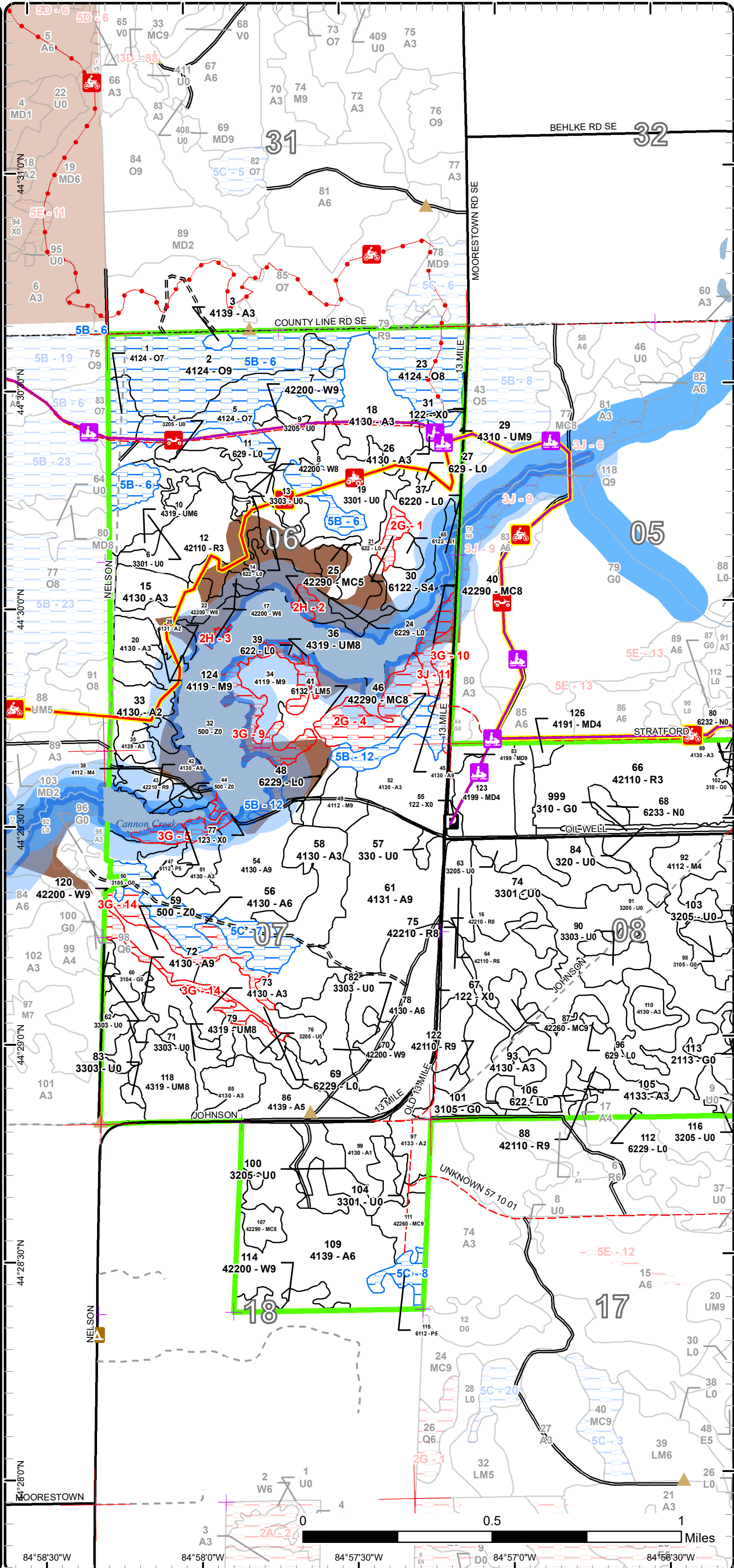
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Special Conservation Areas

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- P Parking Lot
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- Research, Development, and Military Lands



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	81	167	27	17	0	241	63	7	0	0	0	0	0	0	0	0	0	602
Cropland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Low-Density Trees	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
Lowland Aspen/Balsam Poplar	0	0	0	0	0	7	0	0	0	8	0	0	0	0	0	0	0	0	15
Lowland Mixed Forest	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Lowland Shrub	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
Lowland Spruce/Fir	0	4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	8
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	2	22	0	0	0	0	3	0	0	0	0	0	0	0	27
Natural Mixed Pines	0	0	0	0	0	0	0	3	0	0	0	0	23	0	0	0	0	27	52
Northern Hardwood	0	0	0	0	0	0	0	13	0	27	10	0	0	0	0	0	0	47	97
Oak	0	0	0	0	0	0	0	0	0	0	8	141	0	0	0	0	0	0	149
Red Pine	0	93	0	0	0	37	0	0	3	4	0	0	0	0	0	0	0	145	282
Upland Mixed Forest	0	0	0	0	0	0	2	0	0	0	0	0	24	71	0	0	0	0	97
Upland Shrub	208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208
Urban	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Water	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102
White Pine	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	57	95
Total	561	178	167	27	19	66	243	117	30	39	21	141	51	71	0	0	0	276	2004



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 79

Total Compartment Acres: 2,006

Commercial Harvest - 250
 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	141	0	0	0	57	0	0	0	0	197
Natural Mixed Pines	7	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	43	0	0	0	0	0	0	0	0	43
White Pine	0	3	0	0	0	0	0	0	0	3
Total	190	3	0	0	57	0	0	0	0	250

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	250	0	0	0	0	0	0	0	1	251
Next Step	0	0	0	0	0	0	250	0	0	250
Total	250	0	0	0	0	0	250	0	1	501



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

Proposed Treatments:

47	Dike Mowing	0.8	6112 - Lowland Aspen	Poletimber Medium	80	51-80	NonForestMgt	Mowing	6233 - Wet Meadow		No
<p><u>Prescription</u> Keeping dike clear as required. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Other Influence Zones <u>Proposed Start Date:</u> 10/1 /2023</p>											

Approved Treatments:

7	63079007-Cut	2.9	42200 - Natural White Pine	Sawtimber Well	68	111-140	Harvest	Single Tree Selection	4220 - Natural White Pine	Uneven-Aged	No
<p><u>Prescription</u> Select thin by removing most maple, oak, and poorer quality pine. Leave a few larger white oak. Consider sale specs. to appropriately protect EMSR. Discuss with WLD. <u>Specs:</u> Actual treatment shape and size will be according to on the ground conditions and may vary from original treatment. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mix of white pine, red pine, jack pine, oak, maple, Aspen, birch, or cherry <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
29	63079029-Cut	43.0	4310 - Pine, Oak Mix	Sawtimber Well	120	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription</u> Cut all aspen, jack pine and red oak. Cut maple under 14 inches. Leave white pine, red pine and paper birch. Consider sale specs. to appropriately protect EMSR. Discuss with WLD. <u>Specs:</u> Actual Treatment shape and size will be according to on the ground conditions and may vary in size from original treatment. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mix of jack pine, red pine, maple, oak, aspen, cherry, beech, or birch. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <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
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54	63079054-Cut	42.4	4130 - Aspen	Sawtimber Well	60	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut with reserves, leaving higher end of area retention (~5-10%), Also, leave all oak and pine. Consider sale specs. to appropriately protect EMSR. Discuss with WLD.
Specs: Actual treatment shape and size will be according to on the ground conditions and may vary from original treatment.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of aspen, maple, birch, cherry, beech, hemlock, cedar, or pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

61	63079061-Cut	56.6	4131 - Aspen, Oak	Sawtimber Well	54	141-170	Harvest	Shelterwood	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Shelterwood cut. Leave all white oak and pine as permanent retention. Cut all other species down to 2". Leave a few scattered paper birch. Consider sale specs. to appropriately protect EMSR. Discuss with WLD.
Specs: Actual treatment shape and size will be according to on the ground conditions and may vary from original treatment.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of aspen, maple, birch, cherry, beech, hemlock, cedar, or pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

72	63079072-Cut	31.3	4130 - Aspen	Sawtimber Well	52	141-170	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut all trees with retention patches of 3-5%. Also, leave all oak and pine. Consider sale specs. to appropriately protect EMSR. Discuss with WLD.
Specs: Actual treatment shape and size will be according to on the ground conditions and may vary from original treatment.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of aspen, maple, birch, cherry, beech, hemlock, cedar, or pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /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
78 63079078-Cut	50.2	4130 - Aspen	Poletimber Well	59	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves, leaving higher end of area retention (~5-10%), Also, leave all oak and pine. Consider sale specs. to appropriately protect EMSR. Discuss with WLD. <u>Specs:</u> Actual treatment shape and size will be according to on the ground conditions and may vary from original treatment.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of aspen, maple, birch, cherry, beech, hemlock, cedar, or pine. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>										
86 63079086-Cut	16.8	4139 - Aspen, Mixed Deciduous	Poletimber Medium	65	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut all trees with reserves, leaving 3-5% patch retention. Also, leave all oak, red and white pine. Consider sale specs. to appropriately protect EMSR. Discuss with WLD. <u>Specs:</u> Actual treatment shape and size will be according to on the ground conditions and may vary from original treatment.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of aspen, maple, birch, cherry, beech, hemlock, cedar, or pine. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>										
87 63079087-Cut	6.7	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	113	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all Jack pine and most red pine. Mark a few leave red pine where small pocket is. Consider sale specs. to appropriately protect EMSR. <u>Specs:</u> Discuss with WLD. Treatment shape and size will reflect on the ground conditions and may vary from original stand acreage.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of jack pine, red pine, maple, oak, aspen, cherry, beech, or birch. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>										

Total Treatment Acreage Proposed: 250.7

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 79
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5B	5C	2G	2H	3G	3J
601	568	27	7	Aspen		27			7	0
1	1	0	0	Cropland						
24	24	0	0	Herbaceous Openland					0	
115	115	0	0	Low-Density Trees						
15	0	7	8	Lowland Aspen/Balsam Poplar		7			8	
20	0	0	20	Lowland Mixed Forest			20			0
84	84	0	0	Lowland Shrub			0	0	0	
8	4	0	4	Lowland Spruce/Fir			4			
5	5	0	0	Marsh						
27	27	0	0	Mixed Upland Deciduous						
52	26	16	10	Natural Mixed Pines	16		0	3	0	7
97	97	0	0	Northern Hardwood					0	
148	0	148	0	Oak	148					
282	282	0	0	Red Pine					0	
97	74	0	24	Upland Mixed Forest					24	
208	208	0	0	Upland Shrub					0	
22	22	0	0	Urban					0	0
102	102	0	0	Water				0	0	
96	72	0	23	White Pine				1	22	
2,006	1,712	199	96	Total Forested Acres	165	34	25	4	60	7
	85%	10%	5%	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)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 79
Year of Entry: 2024

2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Upland island surrounded by water in the Cannon Creek flooding.							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Upland island surrounded by water in the Cannon Creek flooding.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: Water table is likely too high (and held there by the dam) to dry out enough to facilitate management. Falls within Natural River vegetative buffer and zoning district.							
5	Unavailable	3G: Other Influence zones - See comments	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Might dry out enough to be operable, but not managerially desirable to write a prescription for anything. Best left to allow natural disturbances.							
6	Available	5B: Maintain for regeneration purposes	148	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 79
Year of Entry: 2024

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3G: Other Influence zones - See comments	24	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: Falls within Natural River influence zone. Not easy to get to. Could probably be operated in if there was something desirable to do to the stands.							
10	Unavailable	3G: Other Influence zones - See comments	7	(Inactive)3I: Historical / archeological (add locked comments)	Unspecified	Unspecified	Unspecified
Comments: Skinny stand along relatively heavy travel influence zone.							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: Transition zone that includes Natural River buffer.							
12	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3G: Other Influence zones - See comments	22	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Long skinny stand with some sensitive soils and the transition zone to the south arm of the Cannon Creek flooding. Is also relatively low stocking and contains "Legacy" trees.							

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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
1	4124 - Red with White Oak	Sawtimber Poor	8.3	93	1-50	N/A	Leave overstory oak for this entry.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Oak</td> <td>25</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>75</td> <td>Log</td> <td>16</td> <td>93</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Oak	25	Log	14		Red Oak	75	Log	16	93	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Hazelnut (Spp.)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Witch Hazel</td> <td>Low</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>Full</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub	Witch Hazel	Low	10 - 20 feet	Tall Shrub	Red Maple	Full	>20 feet	Sapling														
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2	4124 - Red with White Oak	Sawtimber Well	56.8	104	1-50	N/A	Stand was marked and thinned as part of "Kal-Saukee Oak" 63-005-04. Aspen and Red Maple were removed during last harvest.																																									
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3	4139 - Aspen, Mixed Deciduous	Sapling Well	1.7	26	Immature	N/A	Aspen/Red Maple mix. About 25-30' Very thick. Cut as "Big Timber" sale: 63-037-95.																																									
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4	3205 - Mixed Upland Shrub	Nonstocked	10.9			No																																										
5	4124 - Red with White Oak	Sawtimber Poor	51.6	104	1-50	N/A	Oak, pine mix retention following shelterwood. Nice white pine regeneration.																																									
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6	3301 - Low Density Deciduous Trees	Nonstocked	13.0			No																																										
7	42200 - Natural White Pine	Sawtimber Well	2.9	68	111-140	N/A	Stand of mixed natural pine, predominantly white pine. Some oak and red maple. Select thin by removing most maple, oak, and poorer quality pine. Leave a few larger white oak.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
8	42200 - Natural White Pine	Sawtimber Medium	30.0	68	81-110	N/A	Nice looking natural pine. Let understory put on a little more size before entering. Check next entry. 2014- Stand is still filling in. Lots of white pine regen along with some red pine and a mix of oak saplings.																																																			
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9	3205 - Mixed Upland Shrub	Nonstocked	13.8			No																																																				
10	4319 - Mixed Upland Forest	Poletimber Well	2.3	55	141-170	N/A	Mixed stand. Hold for now, all looks good.2014-Lots of old pine stumps. Added five years to ring count for age.																																																			
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11	629 - Mixed non-forested wetland	Nonstocked	4.0			No	Cattails, tag alder, sedge, treed bog on South end only.																																																			
12	42110 - Planted Red Pine	Sapling Well	27.9	6	Immature	N/A	Red Pine is 6-8 tall. Some pockets of aspen. Red Pine seems to have thrived and out competed interspersed aspen. Harvested as part of "ORV Mix" 63-013-0142014- Harvested in 2015. Trenched and planted to red pine in 2016. 10/22/2018- planted red pine looks great. 90% survival in planted stock. East and southeast portion of stand has low density pockets. Competition is low throughout, with a pocket in the western area has a 1/2 acre pocket that is dominated by aspen. Great growth on red pine this growing season.																																																			
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13	3303 - Mixed Low Density Trees	Nonstocked	7.9			No																																																				
14	622 - Lowland Shrub	Nonstocked	3.7			No																																																				
15	4130 - Aspen	Sapling Well	11.2	7	Immature	N/A	Stand was harvested as part of "ORV Mix" 63-013-14. Good looking aspen mix regen.																																																			
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16	42210 - Natural Red Pine	Sawtimber Medium	0.0	45	51-80	N/A	Two-aged natural pine that was planted through. Has a 5yr old subcanopy.																																																				
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19	3301 - Low Density Deciduous Trees	Nonstocked	29.3		Unspecified	No																																																					
20	4130 - Aspen	Sapling Well	8.1	7	Immature	N/A	Stand was harvested in 2015 63-013-14-01. Aspen regen is 10-12' tall, looks good. -2014 BT Aspen SI=60.																																																				
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21	622 - Lowland Shrub	Nonstocked	3.8	0	Unspecified	612 - Lowland Coniferous Forest	Stand is operable but pretty low volume. Roughly 50sqft-5stk trees=15cd/ac., 60/40spruce &larch vs white pine.																																																				
22	42200 - Natural White Pine	Sawtimber Medium	1.3	68	111-140	N/A																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23	4124 - Red with White Oak	Sawtimber Medium	31.6	104	1-50	N/A	Stand was marked and thinned as part of "Kal-Saukee Oak" 63-005-04. All Aspen and Red Maple were removed during harvest. Thick White pine understory. ??? when remove overstory? 2014- Regenerating a nice subcanopy of white pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		5	Log	14		Red Maple		Medium	10 - 20 feet	Sapling	
Red Oak		55	Log	14	104	Bigtooth Aspen		Low	5 - 10 feet	Sapling	
Red Pine		5	Log	14		White Pine		High	Variable	Sapling	
White Oak		35	Log	12							

24	6229 - Mixed lowland shrub	Nonstocked	18.7			No	
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25	42290 - Natural Mixed Pine	Poletimber Medium	2.5	68	51-80	N/A	Island stand within flooding. Natural pine mixed with oak and some red maple.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		5	Log	12		White Oak		Low	>20 feet	Pole	
Red Maple		5	Pole	9		White Pine		Medium	>20 feet	Pole	
Black/Red (Hybrid) Oak		10	Log	14	111	Red Pine		Low	>20 feet	Pole	
White Pine		50	Log/Pole	10	68	Black/Red (Hybrid) Oak		Low	>20 feet	Pole	
Red Pine		30	Pole	9							

26	4130 - Aspen	Sapling Well	2.0	26	Immature	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		73	Sapling	4	26	Hazelnut (Spp.)		Low	< 5 feet	Tall Shrub
White Oak		2	Sapling	2		Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub
Red Oak		5	Sapling	3		Witch Hazel		Low	5 - 10 feet	Tall Shrub
Red Maple		15	Sapling	4						
Black Cherry		5	Sapling	3						

27	629 - Mixed non-forested wetland	Nonstocked	1.1		Unspecified	No	
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28	4131 - Aspen, Oak	Sapling Medium	6.5	26	Immature	N/A	Aspen regen mixed with oak and cherry. Sale.???				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		5	Sapling	3		Witch Hazel		Medium	10 - 20 feet	Tall Shrub	
White Oak		20	Sapling	3	26						
Bigtooth Aspen		40	Sapling	3	26						
Black/Red (Hybrid) Oak		20	Sapling	3							
Red Maple		15	Sapling	3							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29	4310 - Pine, Oak Mix	Sawtimber Well	43.0	120	81-110	N/A	Remove Oak, aspen, and maple (leave some representative). Save paper birch. 2014-Evolving as mixed age white pine, some red, some jack. Mixed oak also. Some gaps still filling in with a mix of red and white pine. Some hummocky areas with vernal pools in transition zones.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		2	Log	12		White Oak		Low	< 5 feet	Sapling	
Quaking Aspen		18	Log	12		White Pine		Medium	10 - 20 feet	Pole	
Black/Red (Hybrid) Oak		10	Log	14		Red Pine		Low	< 5 feet	Sapling	
Red Pine		10	Log	14		Black/Red (Hybrid) Oak		Low	< 5 feet	Sapling	
Red Maple		10	Pole	9	80						
White Pine		40	Log/Pole	13	120						
White Oak		10	Log	14							

30	6122 - Black Spruce	Poletimber Poor	4.1	117	1-50	N/A	Lowland spruce. Bog type with short small diameter sparse trees. Site condition.???				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		5	Pole	6		Balsam Fir		Low	5 - 10 feet	Sapling	
Balsam Fir		10	Pole	8		White Pine		Low	10 - 20 feet	Sapling	
Black Spruce		50	Pole	6	117	Black Spruce		Low	10 - 20 feet	Sapling	
White Pine		20	Pole	6							
Tamarack		10	Pole	5							
Red Maple		5	Pole	6							

31	122 - Road/Parking Lot	Nonstocked	0.9			No	Road edge.
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Trace		Sapling			

32	500 - Water	Nonstocked	83.3		Unspecified		
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33	4130 - Aspen	Sapling Medium	13.8	17	Immature	N/A	Remaining openings filling in w/oak and cherry.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		5	Pole/Sapling	6			
Bigtooth Aspen		60	Sapling	1	17		
Quaking Aspen		15	Sapling	1	17		
Black/Red (Hybrid) Oak		15	Pole	8			
Red Maple		5	Sapling	1			

34	4119 - Mixed Northern Hardwoods	Sawtimber Well	13.1	69	81-110	N/A	Check for access potential in 10 years.-2014 Red Maple 59 yrs old. SI=40. Relatively difficult access to this island.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		5	Log	12	103	Serviceberry (Juneberry)		Medium	5 - 10 feet	Sapling	
Black Cherry		10	Log/Pole	10		Red Maple		Medium	Variable	Pole	
Black/Red (Hybrid) Oak		10	Log	15		Black Cherry		Low	5 - 10 feet	Sapling	
Red Maple		65	Log/Pole	12	69	Witch Hazel		Medium	5 - 10 feet	Tall Shrub	
Paper Birch		10	Log/Pole	11		White Pine		Low	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35	4139 - Aspen, Mixed Deciduous	Sapling Well	5.2	7	Immature	N/A	Stand was harvested summer of 2015 63-013-14-01 -2014 Mixed Oak SI=50.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	
Bigtooth Aspen	50	Sapling	1	7
Black/Red (Hybrid) Oak	10	Log/Pole	12	
Black Cherry	20	Pole	7	

36	4319 - Mixed Upland Forest	Sawtimber Medium	23.7	110	81-110	N/A	Mixed stand that buffers flooding. Access challenges. Check in 10 years.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Log	10	
Paper Birch	5	Log	10	
Balsam Fir	10	Pole	8	
White Pine	40	Log	14	110
Black/Red (Hybrid) Oak	5	Log/Pole	12	
Red Maple	35	Log	10	80

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Pole
White Pine	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Pole
Black Cherry	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Witch Hazel	Low	Variable	Tall Shrub

37	6220 - Alder/willow	Nonstocked	6.9			No	
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38	4112 - Maple, Beech, Cherry Association	Poletimber Poor	17.1	60	51-80	N/A	Could hold or restart. Fair amount of red maple entering merchantability. Save large white pine if harvested.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole	8	
Black Cherry	50	Pole/Sap/Log	8	60
White Pine	10	Log	12	
Black/Red (Hybrid) Oak	5	Pole/Log	9	
Red Maple	30	Pole/Sap/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium	Variable	Sapling
Hazelnut (Spp.)	Low	Variable	Tall Shrub
Serviceberry (Juneberry)	Medium	Variable	Sapling
Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub
Witch Hazel	Low	5 - 10 feet	Tall Shrub

39	622 - Lowland Shrub	Nonstocked	24.3		Unspecified	No	
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40	42290 - Natural Mixed Pine	Sawtimber Medium	7.4	111	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	2	Log	14	
Red Maple	20	Log/Pole	11	
White Pine	58	XLog/Log	20	111
Paper Birch	5	Pole	9	
Balsam Fir	10	Pole	7	
Red Pine	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Tall Shrub
Balsam Fir	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 20.4 77 Unspecified N/A Wet mixed stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack	10	Pole	6					
Balsam Fir	10	Pole	6					
Northern White Cedar	20	Pole	7					
White Pine	10	Pole	7					
Red Maple	40	Pole	8	77				

Balsam fir SI=55, 57 yrs old in 2002. Low density cattails present. Inoperable.

42 4130 - Aspen Sawtimber Well 3.8 60 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log/Pole	12		White Pine	Low	< 5 feet	Sapling
Quaking Aspen	68	Log/Pole	11	60	Red Maple	Low	5 - 10 feet	Sapling
White Pine	2	Log	12					
Red Maple	25	Pole/Sapling	7					

43 42210 - Natural Red Pine Sawtimber Well 4.0 80 111-140 N/A Thin strip of nice natural pine along Cannon creek. Stand was thinned in 2001.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	65	Log/Pole	10	80	White Pine	Low	Variable	Sapling
Quaking Aspen	10	Pole	8		Red Maple	Low	Variable	Sapling
Red Maple	5	Pole	8					
White Pine	20	Log/Pole	12					

44 500 - Water Nonstocked 9.8 Unspecified No

45 4130 - Aspen Sawtimber Well 6.7 74 141-170 N/A South part of stand has signed historical grade. Mature pine with mature mix of large aspen, mixed oak, and maple. Could remove all and leave white pine to release understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Balsam Fir	Medium	Variable	Sapling
Red Oak	5	XLog/Log	20		Black Cherry	Low	Variable	Sapling
Quaking Aspen	2	Log/Pole	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	66	Log	12	74	Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
Balsam Fir	2	Pole/Sap/Log	8		Red Maple	Medium	Variable	Sapling
White Pine	2	Log	12					
Black Cherry	3	Pole	8					
Red Maple	15	Log/Pole	10					

2014- Is this in the Nat'l river buffer? Wouldn't be a bad stand to leave for structural diversity on the landscape.
Sterrett - BTand Q Aspen SI=75.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46	42290 - Natural Mixed Pine	Sawtimber Medium	16.3	111	51-80	N/A	Stand was marked and thinned two entries ago. Natural red and white pine over regen. Some scattered Birch remains after left not cut during harvest. Was treated in 2005 as part of "Old Village Line Aspen" 63-037-04.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		5	Log	14		White Pine		Low	Variable	Sapling
White Pine		40	XLog/Log	18	111	Red Pine		Low	< 5 feet	Sapling
Red Pine		35	Log/XLog	16	111	Red Oak		Low	5 - 10 feet	Sapling
Red Maple		20	Pole/Sapling	5	17	Quaking Aspen		Low	5 - 10 feet	Sapling
						Red Maple		Low	5 - 10 feet	Sapling

47	6112 - Lowland Aspen	Poletimber Medium	7.9	80	51-80	N/A	Seeps and sensitive soil.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		50	Log	12	80	Tag Alder		High	10 - 20 feet	Tall Shrub
Paper Birch		5	Pole	9						
Northern White Cedar		5	Pole	6						
Red Maple		35	Pole	10	80					
White Pine		5	Log/Pole	14						

48	6229 - Mixed lowland shrub	Nonstocked	1.2		Unspecified	No	
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49	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.2	100	51-80	N/A	Red Maple dominated. Relatively smaller avg. diameters. Let it put on some growth and check next entry.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black/Red (Hybrid) Oak		5	Pole/Log	9		Hazelnut (Spp.)		Medium	5 - 10 feet	Tall Shrub
Black Cherry		15	Pole	8		Serviceberry (Juneberry)		Medium	Variable	Tall Shrub
Paper Birch		2	Pole/Log	9		Red Maple		Medium	Variable	Sapling
Red Maple		78	Log/Pole	10	100					

50	3105 - Mixed Upland Herbaceous	Nonstocked	4.2		Unspecified	Managed Opening	
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51	4130 - Aspen	Sapling Well	15.9	26	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		85	Sapling	3	26				
Red Oak		3	Sapling/Pole	2					
Black Cherry		5	Sapling	2					
Serviceberry (Juneberry)		2	Sapling	1					
Red Maple		5	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52 4130 - Aspen Sapling Well 30.1 17 N/A Aspen regen from harvest as part of "Old Village Line Aspen" 63-037-04

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	17
Quaking Aspen	70	Sapling	2	17
Bigtooth Aspen	15	Sapling	2	17
Black Cherry	5	Sapling	2	17

53 4199 - Other Mixed Upland Deciduous Sawtimber Well 3.0 94 141-170 N/A Wolfy oak and pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	XLog/Log	16		Black Cherry	Low	Variable	Sapling
Red Pine	5	Log/XLog	16		Serviceberry (Juneberry)	Low	Variable	Sapling
White Oak	5	Log	16		White Pine	Medium	Variable	Sapling
Bigtooth Aspen	25	Log/Pole	12		Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	30	XLog/Log	18	94				
Red Maple	30	Log	14	94				

54 4130 - Aspen Sawtimber Well 42.4 60 111-140 N/A Some large diameter aspen. Treat this entry, restart Leave the scattered red pine. Stand was held last entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak	5	Log	12		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	25	Log	10		Serviceberry (Juneberry)	Low	Variable	Sapling
Paper Birch	5	Pole/Log	9		Red Maple	Medium	Variable	Pole
Quaking Aspen	35	Log	10	60	Black/Red (Hybrid) Oak	Low	Variable	Sapling
					Black Cherry	Low	Variable	Sapling

55 122 - Road/Parking Lot Nonstocked 2.5 Managed Opening Parking lot.

56 4130 - Aspen Poletimber Well 26.9 54 Unspecified N/A Well developed shrub layer. Healthy and still room to grow. Hold this stand this entry for age class diversity.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Pole/Log	8		Serviceberry (Juneberry)	Low	Variable	Sapling
White Pine	10	Pole	9		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Maple	15	Pole/Log	8		Black Cherry	Low	Variable	Sapling
Quaking Aspen	70	Pole	8	54	Red Maple	Medium	Variable	Sapling
					Witch Hazel	Low	Variable	Tall Shrub

57 330 - Low-Density Trees Nonstocked 2.2 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58	4130 - Aspen	Sapling Well	39.3	14	Immature	N/A	Aspen mix regen. Sparse in some areas, but overall coming along nicely. Stand treated as part of "Pineland Aspen" 63-045-07-01.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	75	Sapling	2	14
Red Maple	15	Sapling	2	
Black Cherry	5	Sapling	2	
Bigtooth Aspen	5	Sapling	2	

59	500 - Water	Nonstocked	8.5		Unspecified	No	
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60	3104 - Degraded	Nonstocked	1.2		Unspecified	No	
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61	4131 - Aspen, Oak	Sawtimber Well	56.6	54	141-170	N/A	Some older and younger aspen clones present.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	2	Log	14		Serviceberry (Juneberry)	Low	Variable	Sapling
Paper Birch	2	Pole/Log	9		Red Maple	High	Variable	Sapling
Red Pine	7	XLog/Log	18	101	Hazelnut (Beaked)	Medium	Variable	Tall Shrub
Red Maple	23	Log/Pole	11		Witch Hazel	Low	Variable	Tall Shrub
Quaking Aspen	44	Log/Pole	10	54	Beech	Low	Variable	Sapling
Bigtooth Aspen	2	Pole	9					
Red Oak	20	Log/Pole/XLog	10					

62	3303 - Mixed Low Density Trees	Nonstocked	1.4		Unspecified	No	
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63	3205 - Mixed Upland Shrub	Nonstocked	4.1		Unspecified	No	
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64	42110 - Planted Red Pine	Poletimber Well	28.1	44	81-110	N/A	Red Pine third row thinned in 2020. Wild Fawn Red Pine Sale #63-016-19-2014 Red pine SI=50. wide spacing ,9', from planting. Rows are good and straight.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole	8		Black Cherry	Low	Variable	Sapling
Red Pine	93	Pole/Log	8	44				
Quaking Aspen	2	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
65	6122 - Black Spruce	Sapling Poor	3.7	6	Immature	N/A	Stand was treated as part of "Bloody Hoof Mix" 63-009-14. Lowland conifer mix, will be slow regenerating.																																																											
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66	42110 - Planted Red Pine	Sapling Well	65.3	6	Immature	N/A	Cut as part of "Bear Dog Mix" 63-014-14. White Pine and Oak left. RP is 5-6' tall in west part and 3-5' in east. The cherry competition has been decreased and what remains is mostly scattered, except some heavier cherry in eastern part of stand. Look at for one more possible aerial release during this cycle, but RP is in good shape overall.2014-																																																											
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67	122 - Road/Parking Lot	Nonstocked	18.5			Managed Opening	North 13 Mile and East Oil Well Roads.																																																											
68	6233 - Wet Meadow	Nonstocked	4.2			No																																																												
69	6229 - Mixed lowland shrub	Nonstocked	16.0			No																																																												
70	42200 - Natural White Pine	Sawtimber Well	24.7	125	81-110	N/A	Stand was thinned last entry as part of "Bear Dog Mix" 63-014-14. Good Mix with some very large WP. Some good quality white pine in understory to promote in future.-2014PArVVb/PArVCo. Looks like it was thinned 20yrs ago? Old paint, stumps, some ruts.Sterrett:Red pine - 91 yrs - SI=55. Fir - 66 yrs - SI=70. BT Aspen - 32-34 yrs - SI=75.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
71	3303 - Mixed Low Density Trees	Nonstocked	7.5			No																																																						
72	4130 - Aspen	Sawtimber Well	31.3	52	141-170	N/A																																																						
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73	4130 - Aspen	Sapling Well	9.9	14		N/A	Aspen mix regen. Stand treated as part of "Pineland Aspen" 63-045-07-01.																																																					
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74	3301 - Low Density Deciduous Trees	Nonstocked	35.8		Unspecified	No																																																						
75	42210 - Natural Red Pine	Sawtimber Medium	8.8	45	51-80	N/A	Two-aged natural pine that was planted through. Has a 5yr old subcanopy.																																																					
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76	3205 - Mixed Upland Shrub	Nonstocked	8.0		Unspecified	No																																																						
77	123 - Other High Intensity Urban	Nonstocked	0.1	0	Unspecified		Dam site and crossing.																																																					
78	4130 - Aspen	Poletimber Well	50.2	59	111-140	N/A	Stand is ready for restart, some poorer quality aspen in places. There are some quality larger aspen. 2014-Stand is still filling in some old openings. Some younger clones of aspen. Some very low quality aspen too. Probably hold ten yrs, considering readiness of other stands in the area.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79 4319 - Mixed Upland Forest Sawtimber Medium 9.2 120 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Pole/Log	9		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole/Log	9		White Pine	Low	Variable	Sapling
Bigtooth Aspen	5	Log	11		Black Cherry	Low	Variable	Sapling
Red Pine	35	Log	13	65	Red Maple	Low	Variable	Sapling
Red Maple	40	Log/Pole	10	120	Beech	Low	5 - 10 feet	Sapling
Black Cherry	5	Pole	9					

80 6232 - Wet Prairie Nonstocked 1.0 No

82 3303 - Mixed Low Density Trees Nonstocked 4.2 Unspecified No

83 3303 - Mixed Low Density Trees Nonstocked 1.7 Unspecified No

84 320 - Upland Shrub Nonstocked 4.5 0 Unspecified No
Wind break planting ~ 3 rows wide. Part of "80 Pine" sale in adjacent compartment 80. Old red pine wind break cut in 2022 as part of 80 Pine 63-025-21

85 4130 - Aspen Sapling Well 11.9 7 Immature N/A Stand was harvested as "Bear Dog Mix" 63-014-14.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	80	Sapling	1	7	Black Cherry	Low	5 - 10 feet	Sapling
Red Pine	5	Sapling	1		Red Maple	High	Variable	Sapling
Black Cherry	5	Sapling	1					
Red Maple	10	Sapling	1					

86 4139 - Aspen, Mixed Deciduous Poletimber Medium 16.8 65 51-80 N/A
Mixed, poor quality stems from the most part. Serengetti Aspen should be harvested to restart aspen. Better wood in east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	XLog/Log	20		Black Cherry	Low	< 5 feet	Sapling
Black Cherry	20	Pole/Sap/Log	8		Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Pine	5	Pole	8		Serviceberry (Juneberry)	Medium	Variable	Sapling
White Oak	5	XLog/Log	20		Hawthorn (spp.)	Low	Variable	Tall Shrub
Quaking Aspen	45	Pole/Log	9	65				
Red Maple	20	Pole/Sap/Log	7	65				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
87	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	6.7	113	51-80	N/A	Remnant natural pine that was planted through years ago. Could remove jp, aspen, and mark through some thicker parts of the planted pine.																																										
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88	42110 - Planted Red Pine	Sawtimber Well	145.3	45	111-140	N/A	Stand was treated as part of "Bowman Removal" 63-006-04. All aspen, red maple, cherry, and jack pine were removed. White and red pine were left. Large variability throughout of stocking density.																																										
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89	4130 - Aspen	Sapling Well	24.5	17	Immature	N/A	Aspen mix regen. looks good. Stand was harvested as part of "Rotten Rottweiler Aspen" 63-027-04 2014- Trace of log sized white and hybrid oak in the canopy. (2002) Q Aspen SI=70.																																										
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90	3303 - Mixed Low Density Trees	Nonstocked	8.6		Unspecified	No																																											
91	3205 - Mixed Upland Shrub	Nonstocked	101.2			No	Lots of small cherry brush. -2014 Appears to be low fertility site. Poverty grass dominates with moss and lichen. Lots of old stumps. Shrubs present.																																										
92	4112 - Maple, Beech, Cherry Association	Poletimber Poor	26.9	85	1-50	N/A	Poor quality mix. See what it becomes in future.																																										
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93	4130 - Aspen	Sapling Well	25.3	15	Immature	N/A	Some areas with sparse aspen are more solid to cherry. Stand was treated as part of "Bowman Removal" 63-006-04. There are scattered pine mixed in places.																																												
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94	6229 - Mixed lowland shrub	Nonstocked	1.6		Unspecified	No																																													
95	4119 - Mixed Northern Hardwoods	Poletimber Poor	10.4	90	1-50	N/A	Some Juneberry.																																												
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96	629 - Mixed non-forested wetland	Nonstocked	1.2			No	Appears to be low fertility site. Poverty grass dominates with moss and lichen. Lots of old stumps. Shrubs present.																																												
97	4133 - Aspen, Mixed Pine	Sapling Medium	12.6	7	Immature	N/A																																													
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98	3105 - Mixed Upland Herbaceous	Nonstocked	6.3		Unspecified	Managed Opening	Managed planted opening.																																												
99	4130 - Aspen	Sapling Poor	17.3	35	1-50	N/A	Could add to close by sale if wanted.																																												
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100	3205 - Mixed Upland Shrub	Nonstocked	19.8		Unspecified	No																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
101	3105 - Mixed Upland Herbaceous	Nonstocked	4.0		Unspecified	Managed Opening	
102	310 - Herbaceous Openland	Nonstocked	1.2	0		No	
103	3205 - Mixed Upland Shrub	Nonstocked	27.9			No	
104	3301 - Low Density Deciduous Trees	Nonstocked	3.9		Unspecified	No	
105	4133 - Aspen, Mixed Pine	Sapling Well	4.8	15	Unspecified	N/A	Treated with Tsale 6-04. 180 acres treated with this sale
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	10	Sapling	1		
		Quaking Aspen	55	Sapling	1	15	
		Black/Red (Hybrid) Oak	5	Log	14		
		Red Pine	30	Sapling/Pole	5	56	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Witch Hazel	Low	5 - 10 feet	Tall Shrub		
106	622 - Lowland Shrub	Nonstocked	1.1		Unspecified	No	Grassy marsh with leatherleaf fringe.
107	42290 - Natural Mixed Pine	Sawtimber Medium	8.6	113	81-110	N/A	Nicely structured multi-storied natural pine stand.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	55	Log/XLog/Pole	14	113	
		Red Maple	5	Pole/Log	9		
		Quaking Aspen	10	Pole	7	50	
		White Pine	30	Log	16		
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Medium	Variable	Sapling		-2014
		Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub		Red pine SI=55. Some evidence of past cutting of a small number of large red pine logs, maybe 30+ yrs ago?
		Black Cherry	Low	Variable	Sapling		
109	4139 - Aspen, Mixed Deciduous	Poletimber Well	76.0	58	111-140	N/A	Couple ages of aspen, some remnant natural pine. Some areas with little viable aspen.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	10	Pole	7		
		Quaking Aspen	50	Pole	8	58	
		White Pine	10	Log/Pole/XLog	14	113	
		Black Cherry	25	Log/Pole	10		
		Red Pine	5	Log	14		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Serviceberry (Juneberry)	Medium	Variable	Tall Shrub		
		Witch Hazel	Low	Variable	Tall Shrub		
		White Pine	Medium	Variable	Sapling		
		Red Oak	Low	10 - 20 feet	Sapling		
		Black Cherry	Medium	Variable	Sapling		
		Red Maple	Low	Variable	Sapling		
110	4130 - Aspen	Sapling Well	19.2	15	Unspecified	N/A	Bowman Removal timber sale.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Black Cherry	5	Sapling	1		
		Quaking Aspen	95	Sapling	1	15	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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111 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 10.8 113 51-80 N/A Similar to stands 121 & 120, but fewer remnant natural pine >30" dia.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole/Log	9		Black Cherry	Medium	Variable	Sapling
White Pine	40	Log/Pole/XLog	13	113	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Red Pine	20	Log/XLog	14	113	White Pine	Medium	Variable	Sapling
Quaking Aspen	20	Pole	7	50				
Red Maple	15	Log/Pole	11					

112 6229 - Mixed lowland shrub Nonstocked 0.3 Unspecified No

113 2113 - Forage Crops Nonstocked 1.2 Unspecified Managed Opening Maintained wildlife opening.

114 42200 - Natural White Pine Sawtimber Well 7.7 113 141-170 N/A 3+ aged natural pine stand. Some remnant natural pine that are >30" in diameter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	7	50	Black Cherry	Medium	Variable	Sapling
White Pine	60	Log/XLog/Pole	15	113	Red Maple	Medium	Variable	Sapling
Red Maple	10	Log/Pole	10					
Red Pine	20	Log/XLog/Pole	15	113				

115 6112 - Lowland Aspen Poletimber Medium 6.9 48 51-80 N/A hummocky ground that seasonally floods. Hold for this entry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Pole	6		White Pine	Low	Variable	Sapling
Quaking Aspen	73	Pole	7	48	Nannyberry	High	5 - 10 feet	Tall Shrub
Black Cherry	2	Pole	8		Black Cherry	Medium	Variable	Sapling
Red Maple	10	Log/Pole	11		Serviceberry (Juneberry)	Low	Variable	Tall Shrub

116 3205 - Mixed Upland Shrub Nonstocked 17.4 Unspecified No Autumn olive planted in furrows around edge of stand and in middle.

117 3105 - Mixed Upland Herbaceous Nonstocked 2.0 Unspecified Managed Opening Maintained opening.

118 4319 - Mixed Upland Forest Sawtimber Medium 19.0 120 51-80 N/A Stand was treated in 2015 Bear Dog Mix. 63-014-14.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Pole/Log	9	
Bigtooth Aspen	5	Log	11	
Black/Red (Hybrid) Oak	5	Pole/Log	9	
Red Pine	35	Log	13	65
Red Maple	40	Log/Pole	10	120
Black Cherry	5	Pole	9	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
120	42200 - Natural White Pine	Sawtimber Well	22.0	125	111-140	N/A	Gap dynamics, multiple aged natural pine. White pine range from saplings to 30"+ supercanopy. Trace of balsam fir & hemlock. (Jason Stephens)																																																							
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122	42110 - Planted Red Pine	Sawtimber Well	3.1	70	51-80	N/A	Highly variable basal area.																																																							
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123	4199 - Other Mixed Upland Deciduous	Poletimber Poor	22.0	40	1-50	N/A																																																								
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124	4119 - Mixed Northern Hardwoods	Sawtimber Well	19.8	105	81-110	N/A	Understory is coming in nicely.2014- Former pine site, lots of old stumps. Data was taken from previous inventory (Jason Stephens) in 2012.																																																							
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126	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	2.4	36	81-110	N/A	Mixed sparse stand of poorer quality stems. Was previously part of adjacent stand,																																																							
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