



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63125

Entry Year 2025

Acreage: 2,104

County Missaukee

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Andrew Krugh

Legal Description:

T24, R8W, Sections 1,2,12,13,14

Identified Planning Goals:

Maintain a variety of cover types and age classes. Protect cold water habitats along Ham Creek and Boiling Springs.

Soil and topography:

Ribicon and Crowell Sands. Some areas of Mucky sands and Mucky peat. Some steep areas in section 1. Wet areas in Section 13.

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

Mixed blocks of private and state. The private land is mostly timbered with some agriculture land involving Christmas tree plantations. Scattered dwellings some seasonal some year round. Hunting, snowmobiling and orv use throughout the compartment.

Unique Natural Features:

Boiling Springs. Common loon and bald eagle to the west. Red-shouldered hawk to the east. Potential for secretive locust, great blue heron rookery and osprey. Potential for dusted skipper, grizzled skipper, and red-legged spittlebug in grassy openings. Potential for dry prairie plants in grassy openings. Hill's thistle, rough fescue.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Maintain water quality of Ham creek and Boiling springs. Monitor Miss-Kal snowmobile trail and North Missaukee ORV trail. Wood turtle to the west.

Watershed and Fisheries Considerations:

Ham creek flows through this compartment, it is a designated trout stream with naturally reproducing populations of brown and brook trout. Coho salmon were documented as successfully reproducing in ham creek in the late 1960's. Salmon were also trapped and transported around Tippy and Hodenpyl Dams. Ham creek has a history of being degraded by beavers. Timber management in the riparian zone within 300 feet of the creeks in this compartment should be restricted to tree species other than aspen. (M. Tonello, 8/27/2013).

Wildlife Habitat Considerations:

This compartment is in the Highplains Ecosystem, one third in the Cadillac Subsection, LTA 1111, two-thirds in the Grayling Outwash Plain Subsection, of which 1/3 is in LTA 5149 and the other 1/3 in LTA 5211. In LTA 1111, soils, while variable, are usually sandy, excessively drained, low to moderate in fertility. Historically, forests were northern hardwood, white pine/beech/red maple, and beech/hemlock. In LTA 5211, soils are characterized by deep, excessively drained, acidic sands. Historic vegetation covered the entire spectrum of conifer dominated forests. In LTA 5149, soils are predominately poorly drained peats and mucks. Historic vegetation was primarily conifer dominated wetlands. Management goals are to maintain the current timber types with a slight increase in the aspen and oak types and a slight decrease in red and white pine in order to maintain the mixed upland and lowland hardwoods and conifer that currently exists. Featured species of special interest include bear, deer, woodcock, ruffed grouse, and pileated woodpecker. (E. Victory, 8/21/13)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and post glacial alluvium and an end moraine of coarse textured till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Missisipian Michigan Formation. The Michigan is quarried for gypsum in other areas of the State. A gravel pit is located just to the east and gravel potential is considered good, especially on the uplands. This area lies 5 miles west of Cannon Creek Field which produced 870,00 Mcf gas from the Devonian Traverse Formation. The entire compartment is leased for oil and gas development. (T. Hoane, 3/6/2013).

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 closure. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

None.

Recreational Facilities and Opportunities:

A variety of motorsport trails are located within this compartment. The North Missaukee Route, North Missaukee ORV Trail, Michigan Cross-Country Cycle Trail, and Snowmobile trail #6 are located within sections 1,2, &12 of this compartment. Proposed timber management activities should include trail protection specifications to reduce user impacts, as well as serve as an example of how silviculturally sound timber management practices can co-exist, and often improve recreation and wildlife experiences for future generations. A non-winter harvest along the snowmobile trail, coupled with avoiding the use of the trail as a haul route are suggested considerations. Ham Creek offers fishing opportunities, and there are many opportunities for hunting within this compartment. (T.M.N. 7/10/13)

Fire Protection:

The road system is adequate for access to most of the compartment. The recreation trail system allows for displaced camping opportunities which would allow a wildfire start to go undetected, until the fire was of larger size. During dry periods the fuels would have the potential for large fire growth. There are several private parcel ownerships that would be of a concern during a wildfire. (B. Tower, 2013).

Additional Compartment Information:**The following reports from the Inventory are attached:**

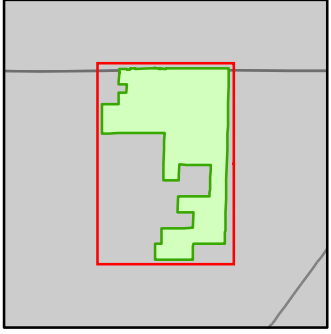
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

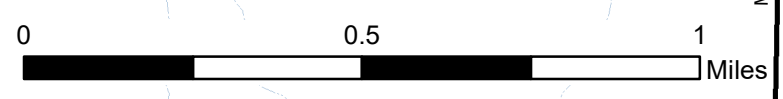
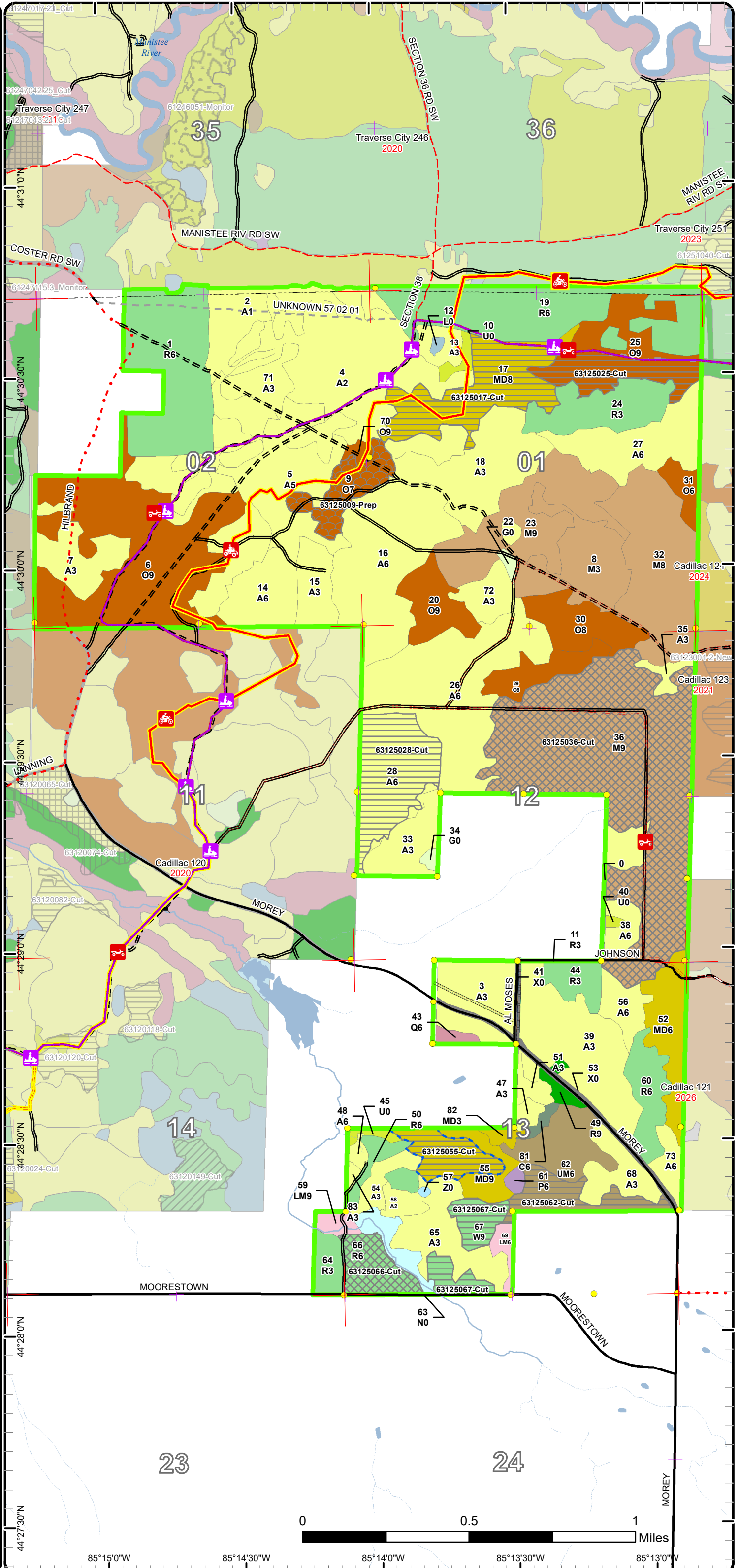
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 125
 T24N, R08W, Sec. 1, 2, 12-14
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2025
 Acres: 2103.7 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 10/19/2023
 Map Phase: Post-Maps



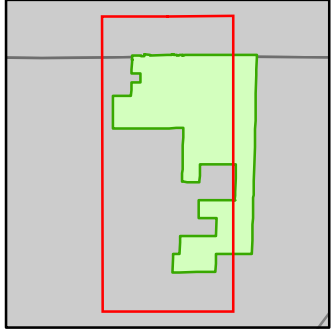
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚲 MCCCT Trails
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- Designated ATV
- - - Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



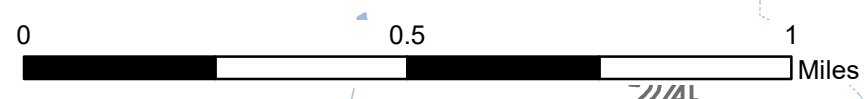
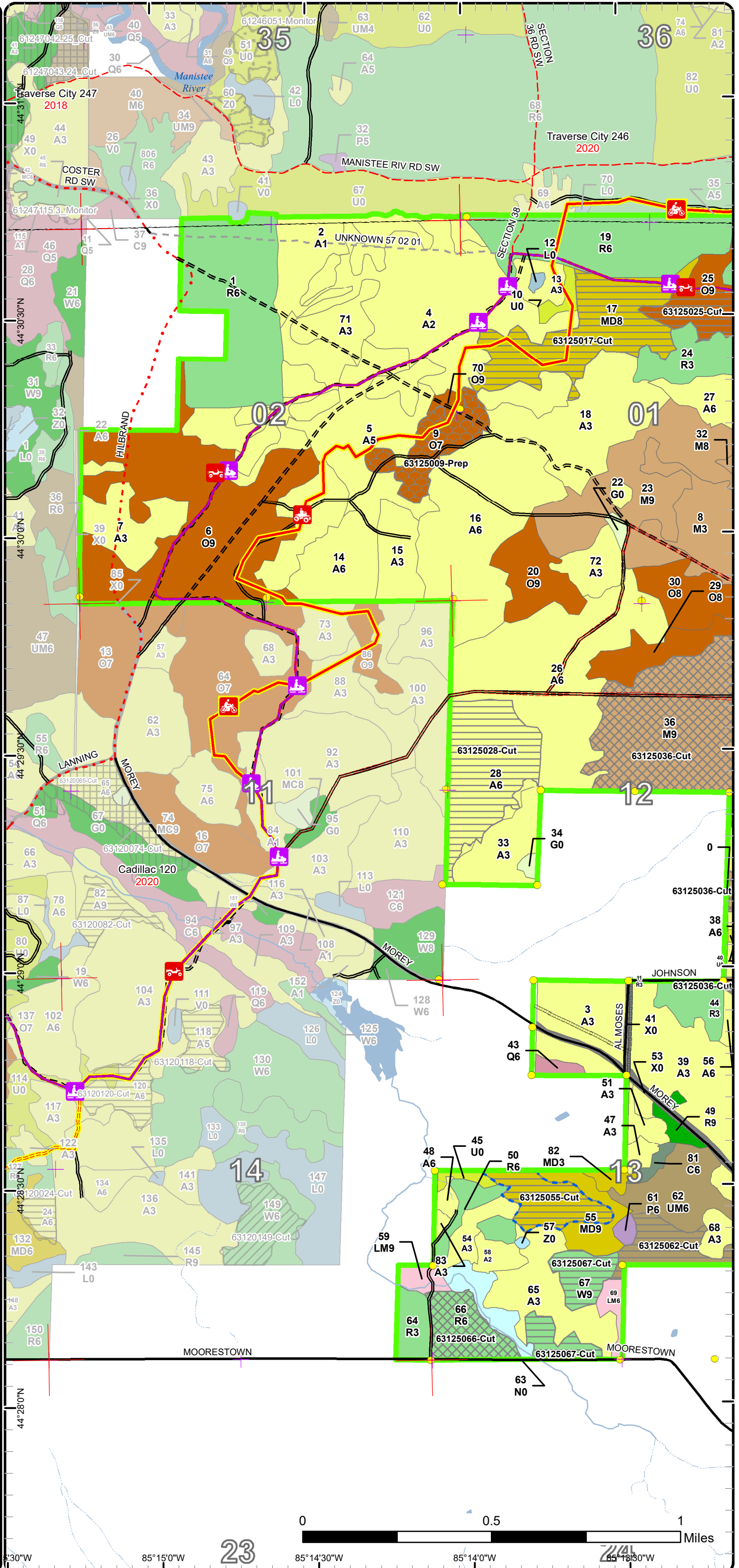
44°27'30"N 85°15'0"W 85°14'30"W 85°14'0"W 85°13'30"W 85°13'0"W

Cover Type & Treatments Map

Compartment: 125
 T24N, R08W, Sec. 1, 2, 12-14
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2025
 Acres: 2103.7 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 10/19/2023
 Map Phase: Post-Maps



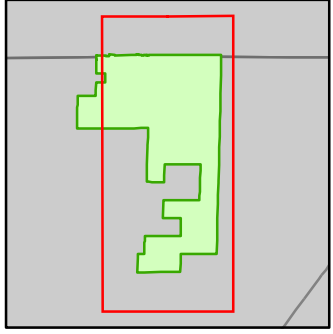
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- MCCCT Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



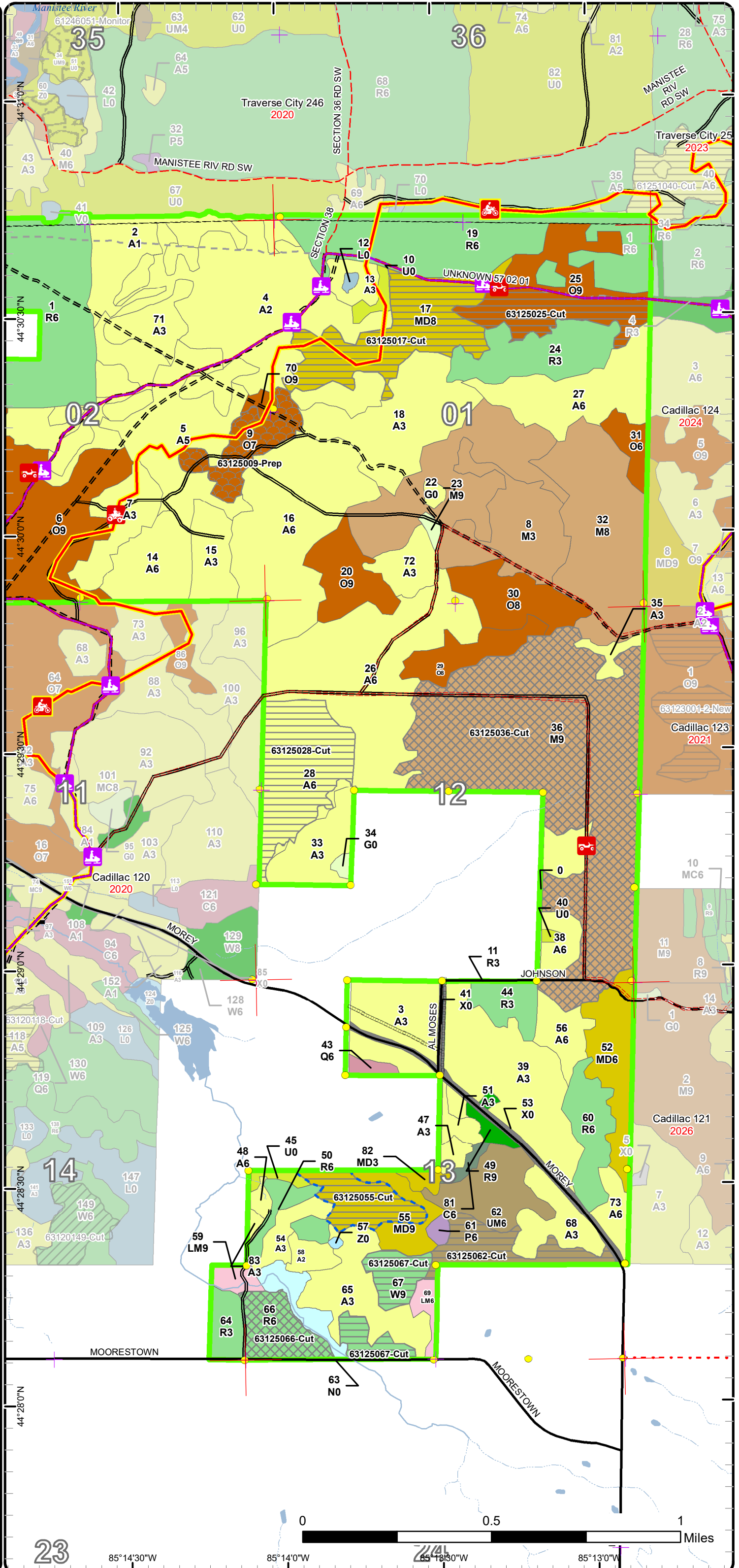
Coordinates: 44°28'0"N, 85°15'0"W, 85°14'30"W, 85°14'0"W, 85°13'50"W

Cover Type & Treatments Map

Compartment: 125
 T24N, R08W, Sec. 1, 2, 12-14
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2025
 Acres: 2103.7 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 10/19/2023
 Map Phase: Post-Maps

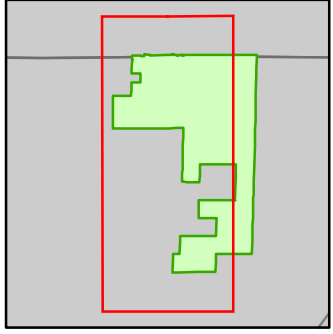


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- MCCCT Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

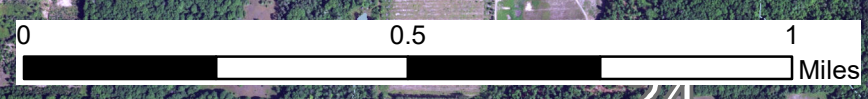
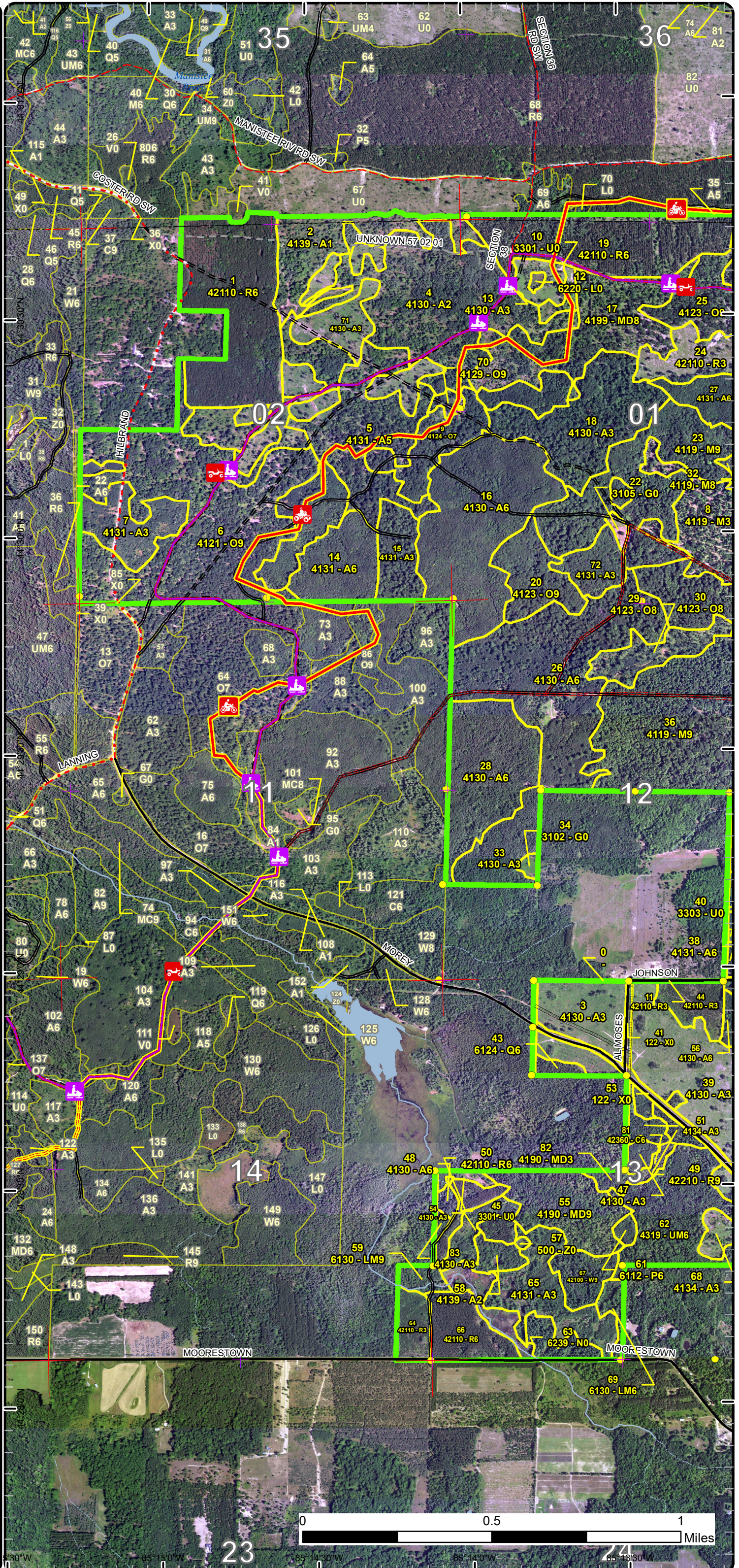


Stand Boundary Map

Compartment: 125
 T24N, R08W, Sec. 1, 2, 12-14
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2025
 Acres: 2103.7 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 10/19/2023
 Map Phase: Post-Maps



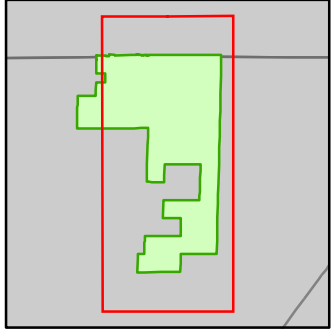
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚲 MCCCT Trails
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- Designated ATV
- - - Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



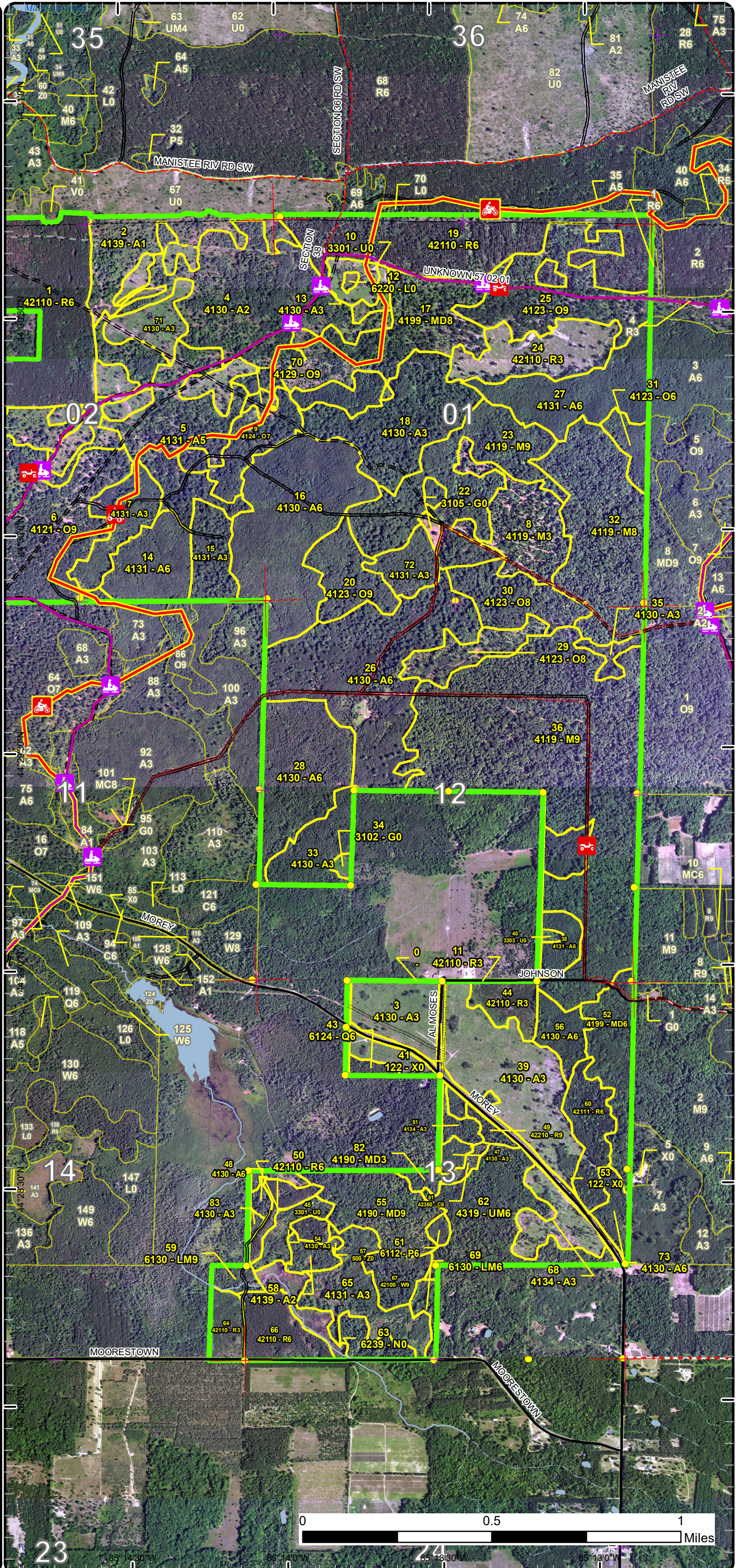
85° 15' 0" W
85° 14' 30" W
85° 14' 0" W
85° 13' 30" W

Stand Boundary Map

Compartment: 125
 T24N, R08W, Sec. 1, 2, 12-14
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2025
 Acres: 2103.7 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 10/19/2023
 Map Phase: Post-Maps

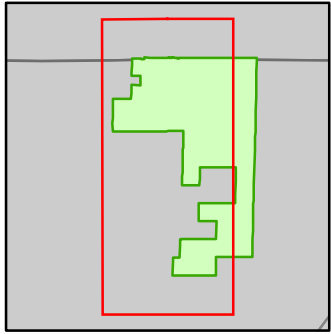


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚲 MCCCT Trails
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- Designated ATV
- - - Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

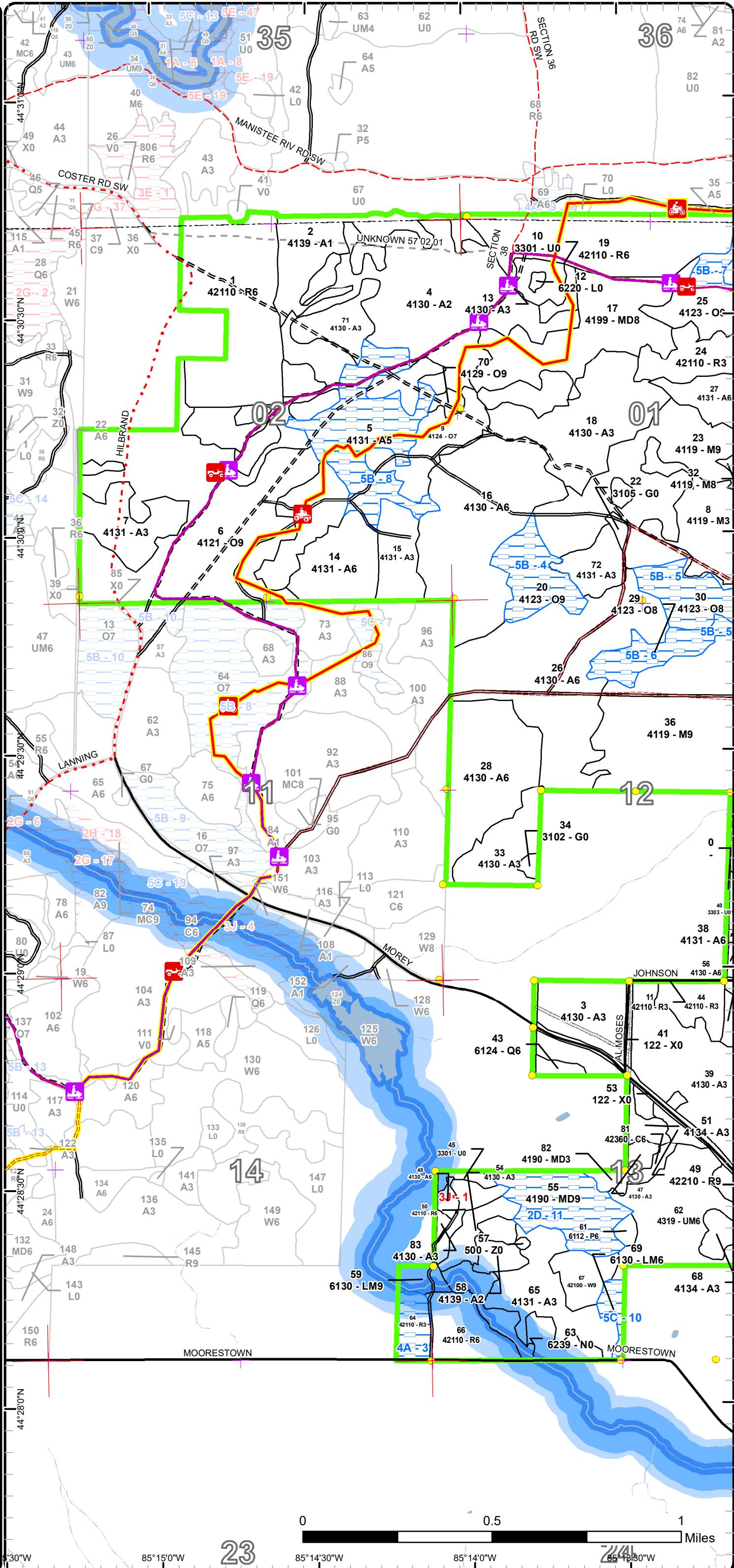


Special Conservation Areas

Compartment: 125
 T24N, R08W, Sec. 1, 2, 12-14
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2025
 Acres: 2103.7 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 10/19/2023
 Map Phase: Post-Maps

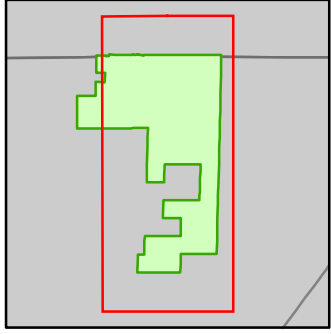


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚲 MCCCT Trails
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- Designated ATV
- - - Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

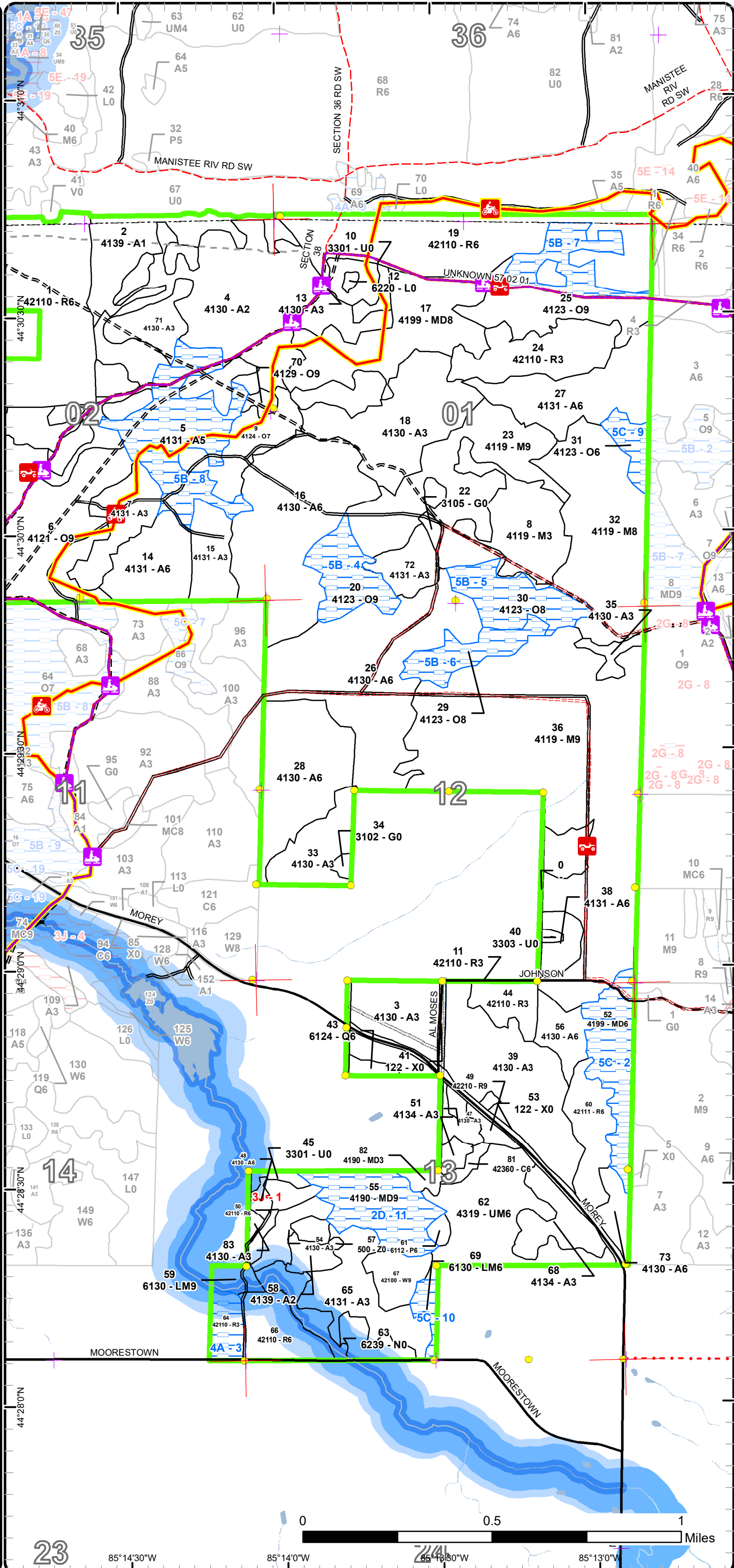


Special Conservation Areas

Compartment: 125
 T24N, R08W, Sec. 1, 2, 12-14
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2025
 Acres: 2103.7 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 10/19/2023
 Map Phase: Post-Maps



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚲 MCCCT Trails
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Bridges
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer





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	211	94	288	232	0	50	56	0	0	0	0	0	0	0	0	0	0	927
Cedar	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Lowland Mixed Forest	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	10
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	4	0	0	0	0	0	0	0	0	85	0	0	0	0	0	0	33	121
Northern Hardwood	0	34	0	0	0	0	0	0	73	274	0	0	0	0	0	0	0	0	380
Oak	0	0	0	0	0	0	0	0	9	140	0	0	0	0	0	0	0	126	275
Red Pine	0	33	23	0	0	0	0	212	0	0	0	0	0	0	0	0	0	0	268
Upland Mixed Forest	0	0	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	47
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	21
Total	39	282	117	290	232	0	102	289	78	283	231	0	0	0	0	0	0	159	2096



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 125

Total Compartment Acres: 2,104

Commercial Harvest - 396
 Harvests with Site Condition - 20
 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	48	0	0	0	0	0	0	0	0	48
Mixed Upland Deciduous	72	0	0	0	0	0	0	0	0	72
Northern Hardwood	0	206	0	0	0	0	0	0	0	206
Oak	28	0	0	0	0	0	0	0	0	28
Red Pine	0	20	0	0	0	0	0	0	0	20
Upland Mixed Forest	21	0	0	0	0	0	0	0	0	21
White Pine	21	0	0	0	0	0	0	0	0	21
Total	190	226	0	0	0	0	0	0	0	415

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	415	22	0	0	0	0	0	0	0	438
Next Step	0	161	183	0	81	322	541	0	0	1287
Total	415	183	183	0	81	322	541	0	0	1725



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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Proposed Treatments:

9	63125009-Prep	22.3	4124 - Red with White Oak	Sawtimber Poor	90	1-50	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Roller chop current non desirable regen. <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked Red pine, oak regeneration is ok. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
17	63125017-Cut	52.9	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	95	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2 inches and greater at DBH. Leave oak along the edges or in a dense pocket in the middle. Use 6" stump spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - <u>Treatments:</u> Site Prep; Pesticide, Aerial - Release; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; <u>Acceptable</u> Moderate to fully stocked Red pine, some oak regeneration is ok. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
25	63125025-Cut	27.6	4123 - Red Oak	Sawtimber Well	90	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2 inches and greater at DBH. Leave oak along the edges or in a dense pocket in the middle. Use 6" stump spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - <u>Treatments:</u> Site Prep; Pesticide, Aerial - Release; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; <u>Acceptable</u> Moderate to fully stocked red pine. Oak regeneration is ok <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
28	63125028-Cut	47.7	4130 - Aspen	Poletimber Well	50	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all treed 2 inches and greater at DBH. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked aspen, maple, beech, oak, pine, cherry and fir. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											



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
36 63125036-Cut	205.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	85	81-110	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription</u> Manage for best tree in place. Some areas will need to be taken to a lower BA than the average of 80. These areas will release younger trees for the future. In the denser areas aim for a BA of 80.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate to fully stocked Maple, Oak, pine, beech, aspen, and birch.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
55 63125055-Cut	19.5	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	78	111-140	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> final harvest stand leave all oak 10 inches and smaller at dbh. In addition leave all cedar and hemlock where present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate to fully stocked Aspen, Oak, Maple, Spruce, Pine, and Fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
62 63125062-Cut	21.2	4319 - Mixed Upland Forest	Poletimber Well	55	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all species 2 inches and greater at dbh. Leave 3-10 percent retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate to fully stocked Aspen, Maple, Oak, Beech, Pine, Spruce, and Fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
66 63125066-Cut	19.9	42110 - Planted Red Pine	Poletimber Well	68	111-140	Harvest	Single Tree Selection	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Remove 1/3 of average ba focusing on creating better quality trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										



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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

67	63125067-Cut	20.9	42100 - Planted White Pine	Sawtimber Well	62	51-80	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	No
----	--------------	------	----------------------------	----------------	----	-------	---------	----------	-----------------------------	-----------	----

Prescription Final harvest all species 4 inches and greater. No retention due to small stand size. Leave 1-3 white pine or oak per acre where present.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Moderate to fully stocked Pine, Fir, Spruce, Aspen, maple, beech, and oak.

Other Comment:

Try and protect some of the natural regeneration already present.

Site Condition

Proposed Start Date: 10/1 /2024

Total Treatment Acreage Proposed: 437.7

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 125
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				2D	4A	5B	5C	3J
929	876	53	0	0	Aspen			53		0
3	3	0	0	0	Cedar					
4	4	0	0	0	Herbaceous Openland					
8	8	0	0	0	Low-Density Trees					
2	2	0	0	0	Lowland Aspen/Balsam Poplar					
3	3	0	0	0	Lowland Conifers					
11	5	5	0	0	Lowland Mixed Forest				5	
1	1	0	0	0	Lowland Shrub					
11	11	0	0	0	Marsh					
121	59	62	0	0	Mixed Upland Deciduous	32			29	
381	381	0	0	0	Northern Hardwood			0		
275	180	95	0	0	Oak			86	9	
268	257	10	0	0	Red Pine		10			
47	47	0	0	0	Upland Mixed Forest					
14	14	0	0	0	Urban					
1	1	0	0	0	Water					
21	21	0	0	0	White Pine					
2,098	1,873	225	0	0	Total Forested Acres	32	10	139	43	0
	89%	11%	0%		Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Boiling springs, Small spring with a concrete foundation							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 125
Year of Entry: 2025

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	4A: No Markets Available for these Forest Products	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 125
Year of Entry: 2025

8	Available	5B: Maintain for regeneration purposes	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	33	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



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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
0			0.0				
0			0.0				
0			0.0				
0			1.1				
0			0.0				
0			1.2				
0			1.8				
0			2.2				
0			0.0				
0			0.0				

1	42110 - Planted Red Pine	Poletimber Well	73.1	60	111-140	N/A	Treated with sale 63-012-15-01 Cut fall of 2016
---	--------------------------	-----------------	------	----	---------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log/Pole	10	
Red Pine	90	Pole	9	60
Pin Oak (Southern)	5	Log/Pole	10	

2	4139 - Aspen, Mixed Deciduous	Sapling Poor	34.0	30	51-80	N/A	Scattered open stand with some denser pockets. merge with stand 80
---	-------------------------------	--------------	------	----	-------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Pole/Sapling	5	
Quaking Aspen	40	Sapling/Pole	3	30
Red Maple	10	Log	11	
Red Maple	30	Sapling	2	
White Pine	10	Pole/Sapling	7	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
3	4130 - Aspen	Sapling Well	31.6	8	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		10	Pole	5		Red Maple	Low	< 5 feet	Sapling
Quaking Aspen		40	Sapling	1	8	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Maple		10	Sapling	1		Black Cherry	Low	< 5 feet	Sapling
Bigtooth Aspen		40	Sapling	1	8	Balsam Fir	Low	< 5 feet	Sapling
4	4130 - Aspen	Sapling Medium	118.5	29	Immature	N/A	open scattered diameters vary. merge with stand 10 and 8, 5,3		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling	3		Red Maple	Low	< 5 feet	Sapling
Red Oak		10	Log/Pole	12		Black Cherry	Low	< 5 feet	Sapling
Bigtooth Aspen		40	Sapling/Pole	4	29				
White Pine		5	Log/Pole	10					
Red Pine		5	Log/Pole	10					
Black Cherry		10	Sapling	4					
Quaking Aspen		20	Sapling	4					
5	4131 - Aspen, Oak	Poletimber Medium	52.5	60	51-80	N/A	Final harvest leave 3 to 10 percent retention. scattered aspen clumpy red maple low quality		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		10	Pole/Log	8		White Pine	Low	5 - 10 feet	Pole
Bigtooth Aspen		40	Pole/Log	8	60	Red Maple	Low	5 - 10 feet	Sapling
White Pine		5	Log/Pole	10		White Oak	Low	< 5 feet	Sapling
Red Pine		5	Log/Pole	10					
Red Oak		10	Log/Pole	12					
Red Maple		30	Log/Pole	10					
6	4121 - Oak, Aspen	Sawtimber Well	126.3	90	51-80	N/A	low quality treat next year of entry nearby stand has been cut		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		25	Log/Pole	10		Red Maple	Medium	10 - 20 feet	Pole
White Pine		5	Log/Pole	10		White Oak	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		10	Log/Pole	10		White Pine	Low	< 5 feet	Sapling
Red Oak		35	Log/Pole/XLog	12	90				
White Oak		25	Log/Pole	10	90				
7	4131 - Aspen, Oak	Sapling Well	47.2	18	201+	N/A	recently treated		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		60	Sapling	2	18	White Oak	Medium	< 5 feet	Sapling
Red Maple		10	Sapling	2					
White Oak		30	Sapling/Pole	2	20				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
8	4119 - Mixed Northern Hardwoods	Sapling Well	34.1	7	Immature	N/A																																																			
<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>Red Oak</td> <td>35</td> <td>Sapling</td> <td>3</td> <td>7</td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Basswood</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>25</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Beech</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	35	Sapling	3	7	Red Maple	25	Sapling	4		Basswood	10	Sapling	3		Sugar Maple	25	Sapling	3		Beech	5	Sapling	3		<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>Sugar Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Common Blackberry</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	5 - 10 feet	Sapling	Red Maple	Medium	5 - 10 feet	Sapling	Ironwood	Medium	5 - 10 feet	Sapling	Black Cherry	Low	5 - 10 feet	Sapling	Common Blackberry	Low	< 5 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Red Oak	35	Sapling	3	7																																																					
Red Maple	25	Sapling	4																																																						
Basswood	10	Sapling	3																																																						
Sugar Maple	25	Sapling	3																																																						
Beech	5	Sapling	3																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Sugar Maple	Medium	5 - 10 feet	Sapling																																																						
Red Maple	Medium	5 - 10 feet	Sapling																																																						
Ironwood	Medium	5 - 10 feet	Sapling																																																						
Black Cherry	Low	5 - 10 feet	Sapling																																																						
Common Blackberry	Low	< 5 feet	Tall Shrub																																																						
9	4124 - Red with White Oak	Sawtimber Poor	22.3	90	1-50	N/A	Treated with sale 63-022-15-01																																																		
<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>35</td> <td>Log/Pole</td> <td>10</td> <td>90</td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Log</td> <td>11</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>50</td> <td>Log/Pole</td> <td>12</td> <td>90</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Oak	35	Log/Pole	10	90	White Pine	15	Log	11		Red Oak	50	Log/Pole	12	90	<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>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	< 5 feet	Pole	poor regeneration coming up. Final harvest and plant red pine. Long term objective is to put back into deciduous and move Red Pine around the landscape to assist with this objective.																									
Canopy Species	% Cover	Size Class	DBH	Age																																																					
White Oak	35	Log/Pole	10	90																																																					
White Pine	15	Log	11																																																						
Red Oak	50	Log/Pole	12	90																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																						
White Pine	Low	< 5 feet	Pole																																																						
10	3301 - Low Density Deciduous Trees	Nonstocked	3.9			No																																																			
11	42110 - Planted Red Pine	Sapling Well	0.0	15	Immature	N/A	old jp stand that was clearcut and planted to red pine																																																		
<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>Red Pine</td> <td>60</td> <td>Sapling</td> <td>1</td> <td>15</td> </tr> <tr> <td>Jack Pine</td> <td>40</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	60	Sapling	1	15	Jack Pine	40	Sapling	1																																										
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Red Pine	60	Sapling	1	15																																																					
Jack Pine	40	Sapling	1																																																						
12	6220 - Alder/willow	Nonstocked	1.0			No																																																			
		<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>Alder</td> <td>High</td> <td></td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Alder	High		Tall Shrub																																														
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Alder	High		Tall Shrub																																																						
13	4130 - Aspen	Sapling Well	8.1	7	Immature	N/A	Treated with sale #63-017-15-01																																																		
<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>Black Cherry</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>30</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Quaking Aspen</td> <td>50</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	20	Sapling	1		Bigtooth Aspen	30	Sapling	1	7	Quaking Aspen	50	Sapling	1	7	<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>Red Maple</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	< 5 feet	Sapling	Quaking Aspen	Low	< 5 feet	Sapling	Black Cherry	Low	5 - 10 feet	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Black Cherry	20	Sapling	1																																																						
Bigtooth Aspen	30	Sapling	1	7																																																					
Quaking Aspen	50	Sapling	1	7																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Red Maple	Low	< 5 feet	Sapling																																																						
Quaking Aspen	Low	< 5 feet	Sapling																																																						
Black Cherry	Low	5 - 10 feet	Sapling																																																						
14	4131 - Aspen, Oak	Poletimber Well	26.7	33	171-200	N/A	recently treated look up cut records																																																		
<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>Red Maple</td> <td>30</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>50</td> <td>Pole/Sapling</td> <td>5</td> <td>33</td> </tr> <tr> <td>White Oak</td> <td>20</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Pole/Sapling	5		Bigtooth Aspen	50	Pole/Sapling	5	33	White Oak	20	Pole/Sapling	5		<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>Witch Hazel</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Witch Hazel	Medium	5 - 10 feet	Tall Shrub	Red Maple	Low	< 5 feet	Sapling	White Oak	Low	< 5 feet	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age																																																					
Red Maple	30	Pole/Sapling	5																																																						
Bigtooth Aspen	50	Pole/Sapling	5	33																																																					
White Oak	20	Pole/Sapling	5																																																						
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Witch Hazel	Medium	5 - 10 feet	Tall Shrub																																																						
Red Maple	Low	< 5 feet	Sapling																																																						
White Oak	Low	< 5 feet	Sapling																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
15	4131 - Aspen, Oak	Sapling Well	17.5	26		N/A	New stand added. recently treated look up cut records		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		60	Sapling	3	26	Red Maple	Low	< 5 feet	Sapling
Red Maple		20	Sapling	3		Bigtooth Aspen	Low	< 5 feet	Sapling
Red Oak		20	Log/Pole	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
16	4130 - Aspen	Poletimber Well	91.2	33	171-200	N/A	look up cut records		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole/Sapling	5		Red Maple	Low	< 5 feet	Sapling
Bigtooth Aspen		70	Pole/Sapling	5	33	Bigtooth Aspen	Low	< 5 feet	Sapling
White Oak		10	Sapling	3		Witch Hazel	Low	5 - 10 feet	Tall Shrub
17	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	55.5	95	51-80	N/A	Long term objective is to put back into deciduous and move Red Pine around the landscape to assist with this objective.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		30	Log/XLog/Pole	14	95	Red Maple	Low	< 5 feet	Sapling
White Oak		10	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black Cherry		10	Pole/Sapling	5		White Oak	Low	< 5 feet	Sapling
Red Maple		20	Pole	8	60				
Quaking Aspen		20	Pole	7					
White Pine		5	Pole	6					
Jack Pine		5	Pole	5					
18	4130 - Aspen	Sapling Well	51.3	26	201+	N/A	recently treated look up cut records		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		70	Sapling/Pole	3	26	Red Maple	Low	< 5 feet	Sapling
Red Maple		20	Sapling/Pole	3		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak		10	Log/XLog	14		Bigtooth Aspen	Low	< 5 feet	Sapling
19	42110 - Planted Red Pine	Poletimber Well	82.5	62	81-110	N/A	treated two year of entries ago. Live crown is about half. Long term objective is to put back into deciduous and move Red Pine around the landscape to assist with this objective.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		80	Pole/Log	8	62	Quaking Aspen	Medium	< 5 feet	Sapling
White Pine		20	Pole/Log	8		Red Maple	Medium	< 5 feet	Sapling
20	4123 - Red Oak	Sawtimber Well	22.3	90	81-110	N/A	still healthy		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		70	Log/XLog/Pole	18	90	Red Maple	Medium	< 5 feet	Sapling
Sugar Maple		10	Pole	5		Ironwood	Low	5 - 10 feet	Sapling
Red Maple		20	Pole	6		Beech	Low	< 5 feet	Sapling
						Witch Hazel	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

22	3105 - Mixed Upland Herbaceous	Nonstocked	2.0			No	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Deciduous Saplings		Medium		Pole	

23	4119 - Mixed Northern Hardwoods	Sawtimber Well	67.9	83	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Beech		5	Pole/Log	9		Ironwood	
Red Oak		35	Log	12	83	Common Blackberry	
Sugar Maple		25	Log	11		Sugar Maple	
Red Maple		25	Log/Pole	10		Black Cherry	
Basswood		10	Log	11		Red Maple	
						Density	Avg. Height
						Medium	5 - 10 feet
						Low	< 5 feet
						Medium	5 - 10 feet
						Low	5 - 10 feet
						Medium	5 - 10 feet
							Sapling
							Tall Shrub
							Sapling
							Sapling

24	42110 - Planted Red Pine	Sapling Well	32.6	5	Immature	N/A	Planted to red pine in 2016.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		4	Sapling	1			
Red Pine		90	Sapling	1	5		
Red Maple		6	Sapling	1			

10/20/18 Regen Check: Very high survival, RP is 1'-2' tall. Some scattered red maple and red oak throughout site, but not enough to cause concern. Very clean looking site, trenches are in good shape.

sale 630011401

25	4123 - Red Oak	Sawtimber Well	49.0	90	51-80	N/A	Long term objective is to put back into deciduous and move Red Pine around the landscape to assist with this objective.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	5		White Pine	
Red Oak		60	Log/Pole/XLog	12	90	Trace	
Red Pine		10	Log/Pole	10		5 - 10 feet	
Quaking Aspen		20	Pole	9		Sapling	

26	4130 - Aspen	Poletimber Well	94.5	25	171-200	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole/Sapling	5		Bigtooth Aspen	
Red Oak		10	Log/XLog/Pole	14		Ironwood	
Bigtooth Aspen		70	Pole/Sapling	5	25	Black Cherry	
						Red Maple	
						Witch Hazel	
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
							Tall Shrub

27	4131 - Aspen, Oak	Poletimber Well	40.5	35	201+	N/A	look up cut records
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		20	Pole	6		Bigtooth Aspen	
Bigtooth Aspen		45	Pole/Sapling	5	35	Witch Hazel	
Red Maple		35	Pole/Sapling	5		Red Maple	
						Low	5 - 10 feet
						Medium	5 - 10 feet
						Medium	5 - 10 feet
							Sapling
							Tall Shrub
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	4130 - Aspen	Poletimber Well	49.7	50	141-170	N/A	hold till next year of entry (2013 SE)final harves all deciduous 2 inches and greater at dbh.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole	8		Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen		60	Pole/Log	8	50	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Pine		5	Log/Pole	10		Red Maple	Low	5 - 10 feet	Sapling
Black Cherry		10	Pole	7					
Balsam Fir		5	Pole	5					
29	4123 - Red Oak	Sawtimber Medium	17.5	95	1-50	N/A	Treated two entries ago.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		90	Log/Pole/XLog	12	95	Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Red Maple		10	Pole/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
30	4123 - Red Oak	Sawtimber Medium	26.1	95	51-80	N/A	treated two year of entry ago. Beech bark disease is showing in some of the beech.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		75	Log/XLog/Pole	14	95	Black Cherry	Low	10 - 20 feet	Sapling
Sugar Maple		20	Pole/Log	8		Bigtooth Aspen	High	10 - 20 feet	Sapling
Beech		5	Pole/Log	8		Red Maple	High	10 - 20 feet	Sapling
31	4123 - Red Oak	Poletimber Well	8.9	85	81-110	N/A	ridge top hard access oak still healthy		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		5	Pole	5		Sugar Maple	Low	5 - 10 feet	Sapling
Red Oak		80	Pole/Log	8	85	Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen		10	Pole/Log	8					
Red Maple		5	Pole	6					
32	4119 - Mixed Northern Hardwoods	Sawtimber Medium	72.5	70	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		30	Log/Pole	11		Red Maple	Low	10 - 20 feet	Sapling
Red Maple		5	Pole	5		Ironwood	Medium	10 - 20 feet	Sapling
Basswood		5	Log/Pole	10		Common Blackberry	High	< 5 feet	Tall Shrub
White Ash		5	Pole/Log	8		Sugar Maple	Medium	10 - 20 feet	Sapling
Sugar Maple		50	Log/Pole	10	70	Beech	Low	10 - 20 feet	Sapling
Beech		5	Pole/Log	8					
33	4130 - Aspen	Sapling Well	21.6	6	Immature	N/A	treated with sale #63-017-15-01		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		5	Sapling/Pole	4		Red Maple	Medium	5 - 10 feet	Sapling
Balsam Fir		5	Sapling/Pole	4		Balsam Fir	Low	5 - 10 feet	Sapling
Bigtooth Aspen		70	Sapling	1	6	Black Cherry	Low	5 - 10 feet	Sapling
Red Maple		20	Sapling	1	6	Witch Hazel	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	3102 - Grass	Nonstocked	1.8			No	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Jack Pine		Low		Pole	
		Black Cherry		Low		Pole	
35	4130 - Aspen	Sapling Well	5.2	26	111-140	N/A	
		Canopy Species		% Cover	Size Class	DBH	Age
		Bigtooth Aspen		60	Sapling/Pole	4	26
		Red Oak		10	Log/Pole/XLog	12	
		Red Maple		30	Sapling/Pole	4	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Maple		Low	5 - 10 feet	Sapling	
		Black Cherry		Low	5 - 10 feet	Sapling	
		Common Blackberry		Low	< 5 feet	Tall Shrub	
		Bigtooth Aspen		Low	5 - 10 feet	Sapling	
36	4119 - Mixed Northern Hardwoods	Sawtimber Well	205.8	85	81-110	N/A	treated last year of entry
		Canopy Species		% Cover	Size Class	DBH	Age
		Sugar Maple		30	Log/Pole	10	85
		Red Maple		20	Pole/Log	9	
		White Ash		10	Pole/Log	8	
		Red Oak		20	Log/Pole/XLog	13	
		Basswood		10	Log/Pole	12	
		Beech		10	Log/Pole	10	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Ironwood		Medium	5 - 10 feet	Sapling	
		Common Blackberry		High	< 5 feet	Tall Shrub	
		Paper Birch		Medium	Variable	Sapling	
		Red Maple		Medium	5 - 10 feet	Sapling	
		Bigtooth Aspen		Low	5 - 10 feet	Sapling	
		Beech		Medium	< 5 feet	Sapling	
38	4131 - Aspen, Oak	Poletimber Well	18.1	35	201+	N/A	
		Canopy Species		% Cover	Size Class	DBH	Age
		Bigtooth Aspen		40	Pole	5	35
		Red Oak		20	Pole/Sapling	5	
		Ironwood		20	Sapling	3	
		Red Maple		20	Pole	5	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Maple		Low	< 5 feet	Sapling	
		Beech		Low	< 5 feet	Sapling	
		Ironwood		Low	< 5 feet	Sapling	
39	4130 - Aspen	Sapling Well	58.5	8	Immature	N/A	
		Canopy Species		% Cover	Size Class	DBH	Age
		Red Oak		10	Pole	5	
		Red Maple		10	Sapling	1	
		Quaking Aspen		40	Sapling	1	8
		Bigtooth Aspen		40	Sapling	1	8
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Maple		Low	< 5 feet	Sapling	
		Balsam Fir		Low	< 5 feet	Sapling	
		Black Cherry		Low	< 5 feet	Sapling	
		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
40	3303 - Mixed Low Density Trees	Nonstocked	1.1			No	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Oak		Trace		Log	
		Sumac		Medium		Tall Shrub	
		Jack Pine		Low		Sapling	
		Black Cherry		Low		Pole	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
41	122 - Road/Parking Lot	Nonstocked	2.5			Managed Opening	al moses rd gravel		
43	6124 - Lowland Spruce-Fir	Poletimber Well	3.3	90		N/A	wet areas		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		20	Pole	5		Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar		30	Pole/Log	6		Balsam Fir	Low	5 - 10 feet	Sapling
Tamarack		5	Log/Pole	8					
Bigtooth Aspen		5	Pole/Log	8					
Black Spruce		30	Pole	5	90				
Red Maple		10	Pole/Log	8					
44	42110 - Planted Red Pine	Sapling Well	12.7	15	Immature	N/A	old jp stand that was clearcut and planted to red pine		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		60	Sapling	1	15				
Jack Pine		40	Sapling	1					
45	3301 - Low Density Deciduous Trees	Nonstocked	2.8			No	creek on edge		
Sub-Canopy Species		Density	Avg. Height	Size					
Black Cherry		Trace		Pole					
Leatherwood		Low		Tall Shrub					
Sweet Fern		Trace		Tall Shrub					
47	4130 - Aspen	Sapling Well	5.6	16	171-200	N/A	Stand swapped from Non-Forested to Forested. treated two year of entries ago		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling	2		Red Maple	Low	< 5 feet	Sapling
Black Cherry		10	Sapling	1		Quaking Aspen	Low	< 5 feet	Sapling
Bigtooth Aspen		80	Sapling	2	16	Black Cherry	Low	< 5 feet	Sapling
48	4130 - Aspen	Poletimber Well	2.5	63	111-140	N/A	buffer boiling spring		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		10	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen		70	Log/Pole	10	63	Balsam Fir	Low	< 5 feet	Sapling
Red Maple		10	Pole	8		White Oak	Low	10 - 20 feet	Sapling
Balsam Fir		10	Pole/Log	8					
49	42210 - Natural Red Pine	Sawtimber Well	4.4	65	81-110	N/A	treated two year of entries ago.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		90	Log/Pole	10	65	Red Maple	Low	< 5 feet	Sapling
Balsam Fir		5	Pole	7		Balsam Fir	Low	< 5 feet	Sapling
Red Maple		5	Pole	7		Bigtooth Aspen	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
50	42110 - Planted Red Pine	Poletimber Well	11.0	68	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		5	Pole	6		White Oak	Low	< 5 feet	Sapling
Red Pine		90	Pole/Log	8	68	Common Blackberry	Low	< 5 feet	Tall Shrub
Red Maple		5	Pole	6		Red Maple	Low	< 5 feet	Sapling
51	4134 - Aspen, Spruce/Fir	Sapling Well	5.0	5	Immature	N/A	Harvested 63-004-15-01 Winter Ham. Cut in 2018.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		50	Sapling	1	5	Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir		30	Sapling	1	5	Witch Hazel	Low	< 5 feet	Tall Shrub
Red Maple		20	Sapling	1		Red Maple	Low	5 - 10 feet	Sapling
52	4199 - Other Mixed Upland Deciduous	Poletimber Well	29.2	95	51-80	N/A	Stand harvested with sale 63-004-15-01 Winter Ham. Harvested winter 2017-2018		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash		5	Pole/Log	6		Black Cherry	Low	5 - 10 feet	Sapling
Sugar Maple		20	Log/Pole	8		Beech	Low	< 5 feet	Sapling
Red Oak		40	Log/Pole	12	95	Ironwood	Low	5 - 10 feet	Sapling
Basswood		5	Log/Pole	8		Red Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen		30	Log/Pole	10					
53	122 - Road/Parking Lot	Nonstocked	11.1			Managed Opening	morey rd pavement		
54	4130 - Aspen	Sapling Well	9.3	17	171-200	N/A	Stand swapped from Non-Forested to Forested. treated two year of entries ago.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		60	Sapling	2	17	Red Maple	Low	< 5 feet	Sapling
Red Maple		30	Sapling	2		Common Blackberry	Medium	< 5 feet	Tall Shrub
White Oak		10	Pole	5		Bigtooth Aspen	Low	< 5 feet	Sapling
						Red Pine	Low	< 5 feet	Sapling
55	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	32.5	78	111-140	N/A	difficult access.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Log/Pole	10	78	Red Maple	Medium	5 - 10 feet	Sapling
White Oak		5	Pole/Log	8		Balsam Fir	High	5 - 10 feet	Sapling
Paper Birch		5	Pole	5					
Bigtooth Aspen		15	Log/Pole	10					
Black Cherry		5	Pole	6					
Red Oak		5	Log/Pole	10					
Northern White Cedar		20	Pole/Log	8					
Balsam Fir		20	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
56	4130 - Aspen	Poletimber Well	12.8	37	141-170	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		70	Pole/Sapling	5	37	Witch Hazel	
Red Oak		10	Log/Pole	10		Bigtooth Aspen	
Red Maple		20	Pole/Sapling	5		Red Maple	
						Black Cherry	
						Density	
						Avg. Height	
						Size	
						Low	
						10 - 20 feet	
						Tall Shrub	
						Low	
						5 - 10 feet	
						Sapling	
						Low	
						< 5 feet	
						Sapling	
						Low	
						< 5 feet	
						Sapling	
57	500 - Water	Nonstocked	0.6			No	
58	4139 - Aspen, Mixed Deciduous	Sapling Medium	6.3	5	Immature	N/A	harvested with sale 63-004-15-01 Winter Ham. Cut in 2018.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		50	Sapling	1	5	Black Cherry	
Black Cherry		5	Sapling	1		Balsam Fir	
Balsam Fir		10	Sapling	1		Red Maple	
White Oak		5	Pole	6			
Red Maple		30	Sapling	1	5		
						Density	
						Avg. Height	
						Size	
						Low	
						5 - 10 feet	
						Sapling	
						Low	
						5 - 10 feet	
						Sapling	
						Low	
						5 - 10 feet	
						Sapling	
59	6130 - Fir, Aspen, Maple	Sawtimber Well	5.4	55	111-140	N/A	creek corridor
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		30	Pole/Sapling	6		Red Maple	
Red Maple		20	Pole/Log	8		Balsam Fir	
Bigtooth Aspen		30	Log/Pole	10	55		
White Pine		20	Pole/Log	8			
						Density	
						Avg. Height	
						Size	
						Low	
						5 - 10 feet	
						Sapling	
						Low	
						5 - 10 feet	
						Sapling	
60	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	21.2	62	81-110	N/A	Treated with sale 63-012-15-01 Cut fall of 2016
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Pole/Log	8			
Red Oak		10	Log/Pole	11			
Red Pine		80	Pole/Log/Sap	8	62		
61	6112 - Lowland Aspen	Poletimber Well	2.3	25	141-170	N/A	Stand swapped from Non-Forested to Forested. old habit cut. (SE13)
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
American Elm		5	Pole	5		Red Maple	
Black Cherry		5	Pole	5		Alder	
Bigtooth Aspen		50	Pole	5	25	Black Cherry	
Red Maple		20	Pole	5			
Balsam Fir		10	Pole/Sapling	5			
Paper Birch		10	Pole	5			
						Density	
						Avg. Height	
						Size	
						Low	
						< 5 feet	
						Sapling	
						Low	
						< 5 feet	
						Tall Shrub	
						Low	
						< 5 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

62	4319 - Mixed Upland Forest	Poletimber Well	47.2	55	141-170	N/A	wet areas small diameter aspen.
----	----------------------------	-----------------	------	----	---------	-----	---------------------------------

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole/Sapling	4		Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	20	Pole/Sapling	6		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Bigtooth Aspen	30	Pole/Sapling	6	55	Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	20	Pole/Log	10	90	White Pine	Low	5 - 10 feet	Sapling
White Pine	5	Log	12					
Black Spruce	5	Pole/Log	6					
Red Maple	15	Pole/Log	8					

63	6239 - Mixed Emergent Wetland	Nonstocked	10.9			No	New stand added.
----	-------------------------------	------------	------	--	--	----	------------------

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Low		Pole
Red Maple	Low		Pole

64	42110 - Planted Red Pine	Sapling Well	10.4	16	171-200	N/A	Stand swapped from Non-Forested to Forested. (SE13)
----	--------------------------	--------------	------	----	---------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	40	Sapling	3	
Red Pine	60	Sapling	3	16

65	4131 - Aspen, Oak	Sapling Well	31.4	16	Immature	N/A	Stand swapped from Non-Forested to Forested. treated last year of entry look up cut records wet areas (SE)
----	-------------------	--------------	------	----	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Sapling	2	16	Common Blackberry	Medium	< 5 feet	Tall Shrub
Red Oak	10	Log/Pole	10		Red Maple	Low	< 5 feet	Sapling
White Oak	10	Pole	6		Bigtooth Aspen	Low	< 5 feet	Sapling
Red Maple	20	Sapling	2		Balsam Fir	Low	< 5 feet	Sapling
Northern White Cedar	10	Pole/Log	8					

66	42110 - Planted Red Pine	Poletimber Well	19.9	68	111-140	N/A	Thinn stand removing 1/3 of average ba.
----	--------------------------	-----------------	------	----	---------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Pole/Log	8	68

67	42100 - Planted White Pine	Sawtimber Well	20.9	62	51-80	N/A	treated last year of entry (SE)
----	----------------------------	----------------	------	----	-------	-----	---------------------------------

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	90	Log	11	62	Bigtooth Aspen	High	5 - 10 feet	Sapling
Balsam Fir	10	Pole/Log	8		Common Blackberry	Medium	< 5 feet	Tall Shrub
					White Pine	High	< 5 feet	Sapling
					Red Maple	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
68	4134 - Aspen, Spruce/Fir	Sapling Well	18.4	8	Immature	N/A	final harvest with reserves leave oak and along wet areas winter cut		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		10	Pole	6		Red Maple	Low	< 5 feet	Sapling
Balsam Fir		20	Sapling	1		Balsam Fir	Medium	< 5 feet	Sapling
Bigtooth Aspen		50	Sapling	1	8	Red Oak	Low	5 - 10 feet	Sapling
Red Maple		20	Sapling	1		Black Cherry	Low	< 5 feet	Sapling
69	6130 - Fir, Aspen, Maple	Poletimber Well	5.3	78	111-140	N/A	uncut portion from last year of entry wet no access		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock		5	Pole	6		Red Maple	Low	5 - 10 feet	Sapling
Black Cherry		5	Pole	6		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple		30	Pole/Log	9	78	Alder	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen		10	Pole/Log	8		Black Cherry	Low	5 - 10 feet	Sapling
Northern White Cedar		10	Pole/Log	8					
Balsam Fir		20	Pole/Log	8					
White Pine		20	Pole/Log	8					
70	4129 - Mixed Oak	Sawtimber Well	2.8	90	81-110	N/A	New stand added. small acreage not previously treated could expand into stand 7 in spots		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		30	Log/Pole	10	90	Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen		20	Log/Pole	10		White Oak	Low	< 5 feet	Sapling
Red Oak		30	Log/Pole	12		White Pine	Low	5 - 10 feet	Pole
Red Maple		20	Pole	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub
71	4130 - Aspen	Sapling Well	45.2	7	Immature	N/A	Treated with sale #63-017-15-01		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		30	Sapling	1	7	Black Cherry	Low	< 5 feet	Sapling
Red Pine		5	Log/Pole	10		Red Maple	Low	< 5 feet	Sapling
Bigtooth Aspen		40	Sapling	1	7				
Red Maple		15	Sapling	1					
Red Oak		10	Log/Pole	12					
72	4131 - Aspen, Oak	Sapling Well	15.5	6	Immature	N/A	Treated with sale #63-017-15-01		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Sapling	1		Red Maple	Low	5 - 10 feet	Sapling
Red Oak		20	Log/Pole	12	70	Ironwood	Low	5 - 10 feet	Sapling
Bigtooth Aspen		60	Sapling	1	6	Beech	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

73 4130 - Aspen Poletimber Well 9.0 37 141-170 N/A Good quality stand. Hold for at least another yoe.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log/Pole	10		Red Maple	Low	< 5 feet	Sapling
Bigtooth Aspen	70	Pole/Sapling	7	37	Black Cherry	Low	< 5 feet	Sapling
Red Maple	20	Pole/Sapling	7		Witch Hazel	Low	10 - 20 feet	Tall Shrub
					Bigtooth Aspen	Low	5 - 10 feet	Sapling

81 42360 - Upland Cedar Poletimber Well 2.7 93 81-110 N/A wet areas. Stand was delineated out of previous harvest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	60	Pole	6	93	Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	15	Pole/Sapling	6	70	Witch Hazel	Low	< 5 feet	Tall Shrub
Red Maple	5	Pole	6					
Bigtooth Aspen	10	Log/Pole	10					

82 4190 - Mixed Upland Deciduous with Cedar Sapling Well 3.6 5 Immature N/A find aspen maple areas north of creek majority of stand is wet

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	25	Sapling	1		Red Maple	Medium	5 - 10 feet	Sapling
Balsam Fir	20	Sapling	1		Balsam Fir	High	5 - 10 feet	Sapling
Northern White Cedar	20	Pole/Log	8					
Red Maple	25	Sapling	1	5				
Red Oak	5	Sapling	1					
Paper Birch	5	Sapling	1					

83 4130 - Aspen Sapling Well 1.2 5 Immature N/A Stand harvest with timber sale 63-004-15-01 Winter Ham cut in 2018.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling	1		White Oak	Low	10 - 20 feet	Sapling
Red Maple	10	Sapling	1		Balsam Fir	Low	< 5 feet	Sapling
White Oak	10	Sapling	1		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen	70	Sapling	1	5				