



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63051

Entry Year 2026

Acreage: 2,664

County Wexford

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Andrew Krugh

Legal Description:

T24N R9W: Lands south of the Manistee River in sections 1, 9-12 and sections 13-16

Identified Planning Goals:

Vegetation management in the Manistee River Valley Management Area (MA) will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; threatened, endangered and special concern species; and provide for forest-based recreational uses. The portion of the Manistee River in Wexford County is being managed as a natural river although it is not designated as such. Timber management for this 10-year planning period includes continuing aspen management to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; focusing on balancing the red pine age class structure through final harvests and re-planting; and on improving red pine quality through partial harvests.

Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; an increased wildland/urban interface and a need to restore barrens communities through prescribed fire; and invasive plant control.

Soil and topography:

Topography is generally flat formed in Rubicon-Montcalm and Graycalm soils. A high water table is prevalent on the east half and in portions of the west half of the compartment. Short steep topography changes occur adjacent to the riparian corridors along both the Chase and Morrissy creeks. Land adjacent to the Manistee River exhibit's the typical flood plain, bench, and bluff characteristics often found along the River.

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

Much of this compartment is solid state ownership. There are 3 large (>40ac) private parcels within the compartment and 2 smaller parcels (<10ac). A large private ownership in section 9 was recently acquired by the state. This acquisition has consolidated state ownership within this section and has created a new surface lease with Chippewa Landing Canoe Livery. This lease allows for the use of state land for both the livery location along the Manistee River and a few small campsites within existing openings.

Unique Natural Features:

Unique communities found within the compartment include northern wet meadow and pine barrens. Red shouldered hawk, wood turtle, Hill's thistle, and ginseng have been located. Potential exists for great blue heron, osprey, eagle, goshawk, Eastern massasauga, box turtle, and Blanding's turtle.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The Manistee River borders the compartment along the northern edge and is managed as a Natural River under a MOU between FRD and Fisheries Divisions.

Watershed and Fisheries Considerations:

The Manistee River, Morrissy Creek, Chase Creek, and the Flower Creeks all flow through Compartment 51. All are Designated Trout Streams. The Flower Creek branches contain brook trout, and provide cold water to Morrissy Creek. Morrissy Creek has brown trout, brook trout, and rainbow trout, and provides cold water to the Manistee River. Chase Creek has brown and brook trout, and likewise provides cold water to the Manistee River. Chase and Morrissy Creeks provide critical spawning habitat for adult migratory brown trout and rainbow trout from the Manistee River. Therefore, it is essential that we protect all of these streams when planning timber management activities. The Natural Rivers (NR) plan calls for a buffer of 175' on the Manistee River, as well as 50 feet from the crest of any bluff along the river. The NR plan calls for buffers of 50' for the other tributaries in the Compartment.

Wildlife Habitat Considerations:

There are two rye wildlife openings in this compartment. These openings should be buffered from treatments in adjacent stands, and any adjacent treatments should prevent expansion of autumn olive if present. Given the presence of wood

turtle along the river, any adjacent treatments should provide an adequate buffer zone and pesticide use should be restricted along the waterway. Generally, wildlife cover type goals are no net loss in aspen or oak acres, to protect mast bearing shrubs, to create brush piles adjacent to wetlands, to preferably leave retention in the form of islands or corridors, and to provide coarse woody debris. Promote a mix of cover types by seeking opportunities to manage for non-forested openings, older age classes and mixed age stands where possible and appropriate. Featured species of special interest are black bear, snowshoe hare, grouse, deer, and golden-winged warbler. (E. Victory 7/18/14)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum in other areas of the State. A gravel pit is located in Section 16 and potential is considered to be good. This area is located seven miles south of the prolific Silurian Niagaran reef trend. Oil and gas has limited potential in the Compartment and none of the State lands are leased for oil and gas exploration.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR.

Survey Needs:

No additional surveys are needed at this point.

Recreational Facilities and Opportunities:

Recreational opportunities are abundant within this compartment. Snowmobile trail #6, North Missaukee ORV route, North Missaukee ORV trail, and the Michigan Cross Country Cycle Trail (MCCCT) bisect the southeastern section of this compartment. Trail protection specifications should be included in any timber sales potentially impacting these trail systems. The old Chase Creek campground in the northeast corner of section 13 is closed, and dispersed camping is popular at this old site. The DNR purchased the Chippewa Landing canoe livery and campground property, which is leased out for recreational purposes. Fishing is excellent on the mainstream of the Manistee River, and on the Morrissy and Chase Creek tributaries. Hunting opportunities are plentiful. (T.M.N. 4/13)

Fire Protection:

The areas of Red Pine provide for the potential of larger wildfire growth. The potential for wildfires is increased with the dispersed camping and use of the old Chase Creek Campground. BET5-14

Additional Compartment Information:

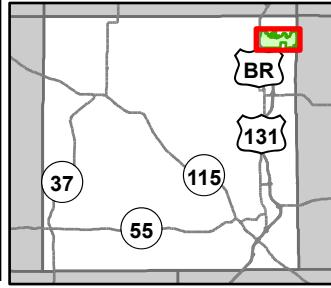
The following reports from the Inventory are attached:

- 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: 63051
 T24N, R09W, Sec. 1, 9-16
 T24N, R08W, Sec. 7
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2026
 Acres: 2664 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 7/18/2024
 Map Phase: Web Post 1

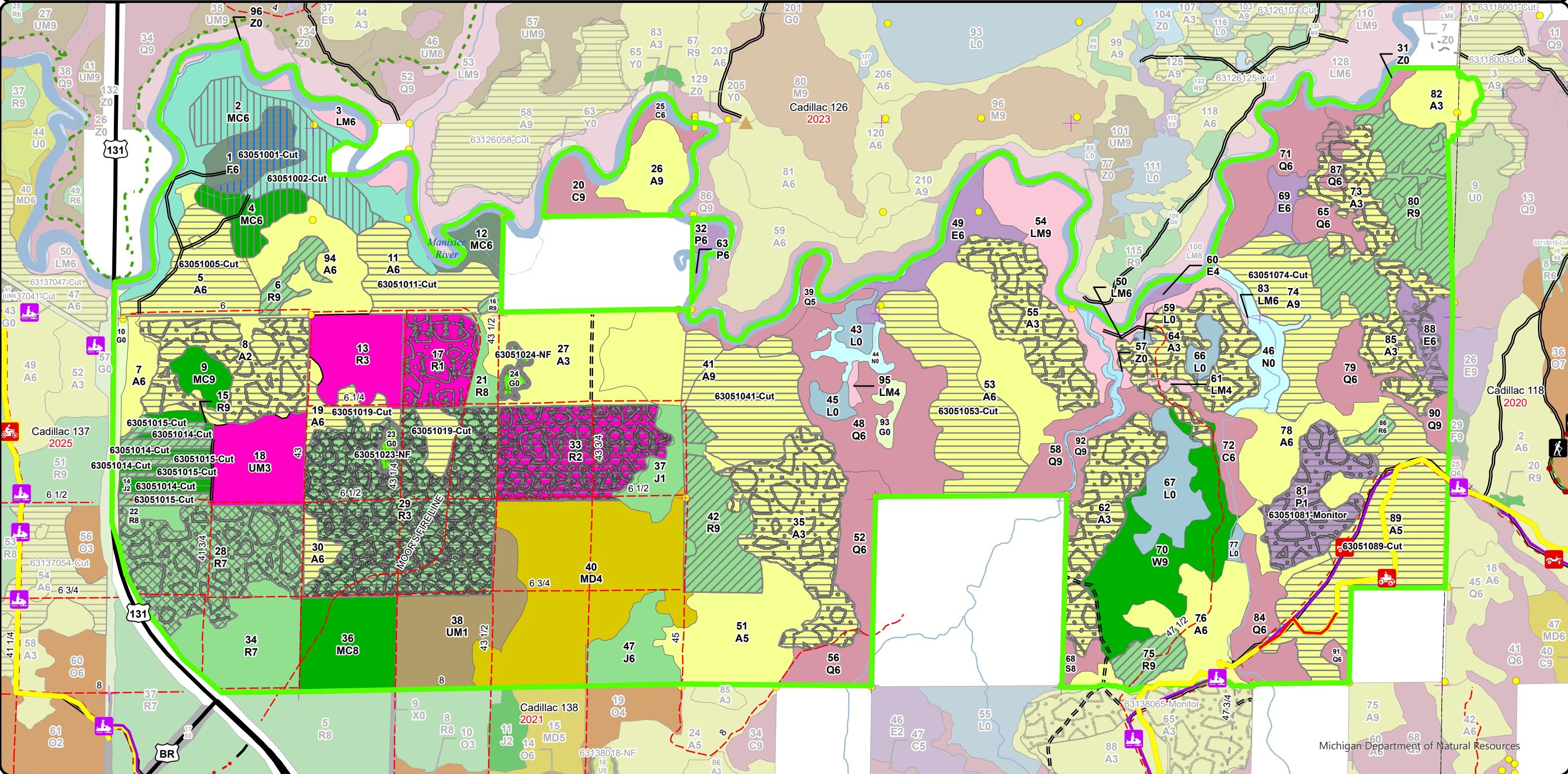
- Berms
- Bridges
- Culvert
- Survey Grade Corners
- Remonumented Section Corners
- Hiking Trails
- Horse Trails
- MCCCT Trails

- ORV Trails
- ORV Routes
- Snowmobile Trails
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)

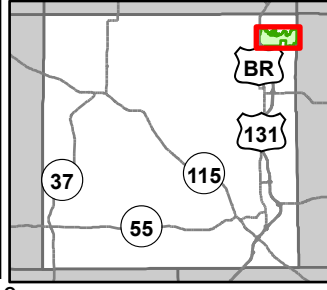
- Shelter Wood (w/Reserves)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Planting (tree species)
- Opening Maintenance
- Site Prep

- **INCORRECT ATTRIBUTES**
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

- 613 - Lowland Mixed Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Designated Equestrian Trails
- Designated Hiking Pathways
- Designated ORV Routes
- Designated MCCCT Trails



Stand Boundary Map



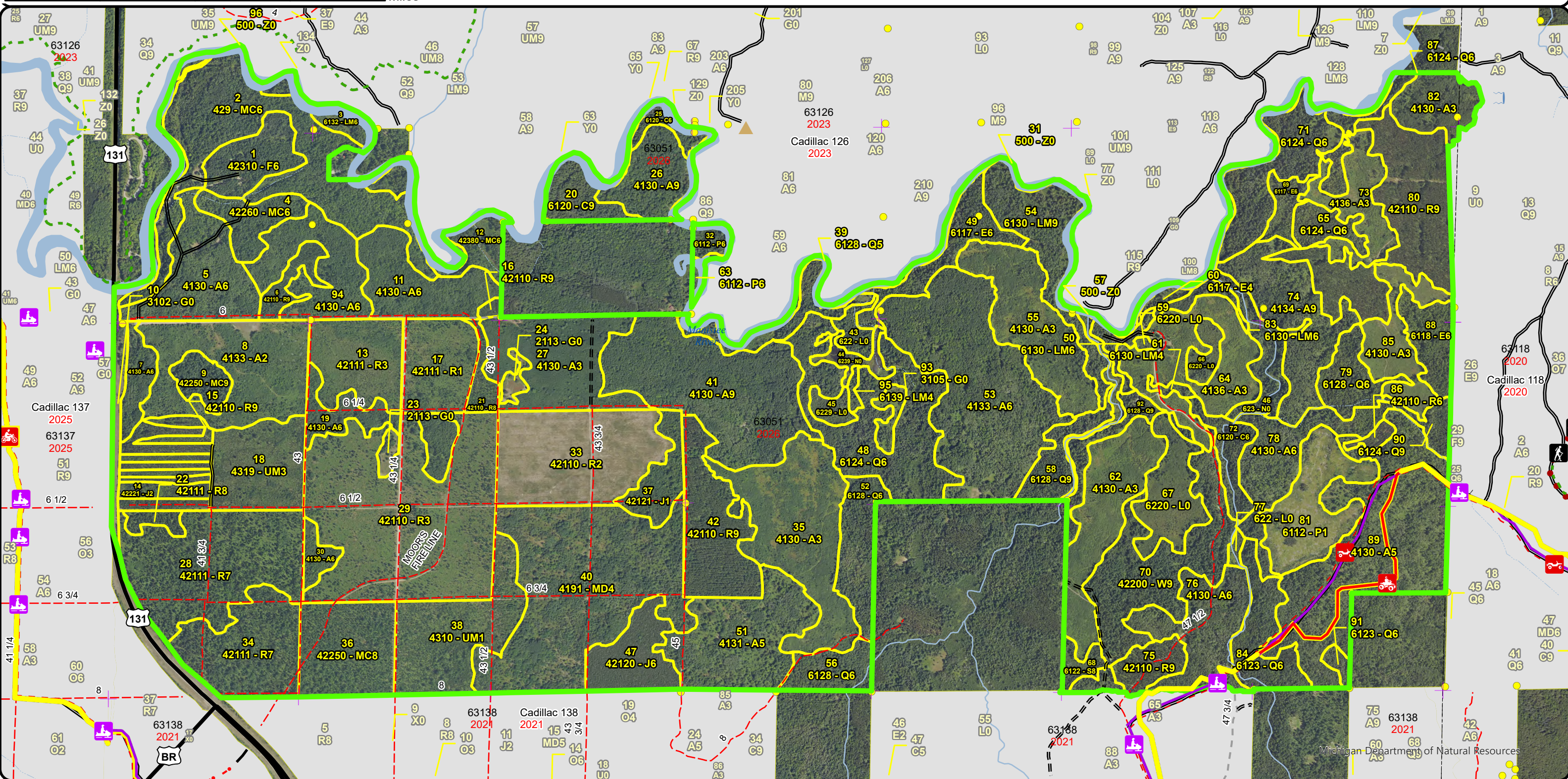
Compartment: 63051
 T24N, R09W, Sec. 1, 9-16
 T24N, R08W, Sec. 7
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2026
 Acres: 2664 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 7/18/2024
 Map Phase: Web Post 1

- Berms
- Bridges
- Culvert
- Survey Grade Corners
- Remonumented Section Corners
- Hiking Trails
- Horse Trails
- MCCCT Trails

- ORV Trails
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- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)

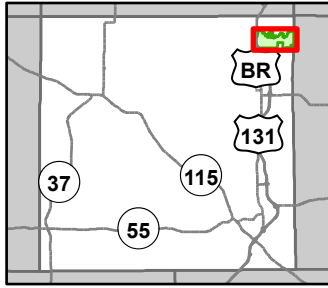
- Private - Dirt / Gravel Road
- Intermittent Stream
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- Compartment Boundary
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- State Forests
- Designated Equestrian Trails
- Designated Hiking Pathways
- Designated ORV Routes
- Designated MCCCT Trails



Special Conservation Areas & Site Conditions Map

Compartment: 63051
 T24N, R09W, Sec. 1, 9-16
 T24N, R08W, Sec. 7
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2026
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 Map Revised: 7/18/2024
 Map Phase: Web Post



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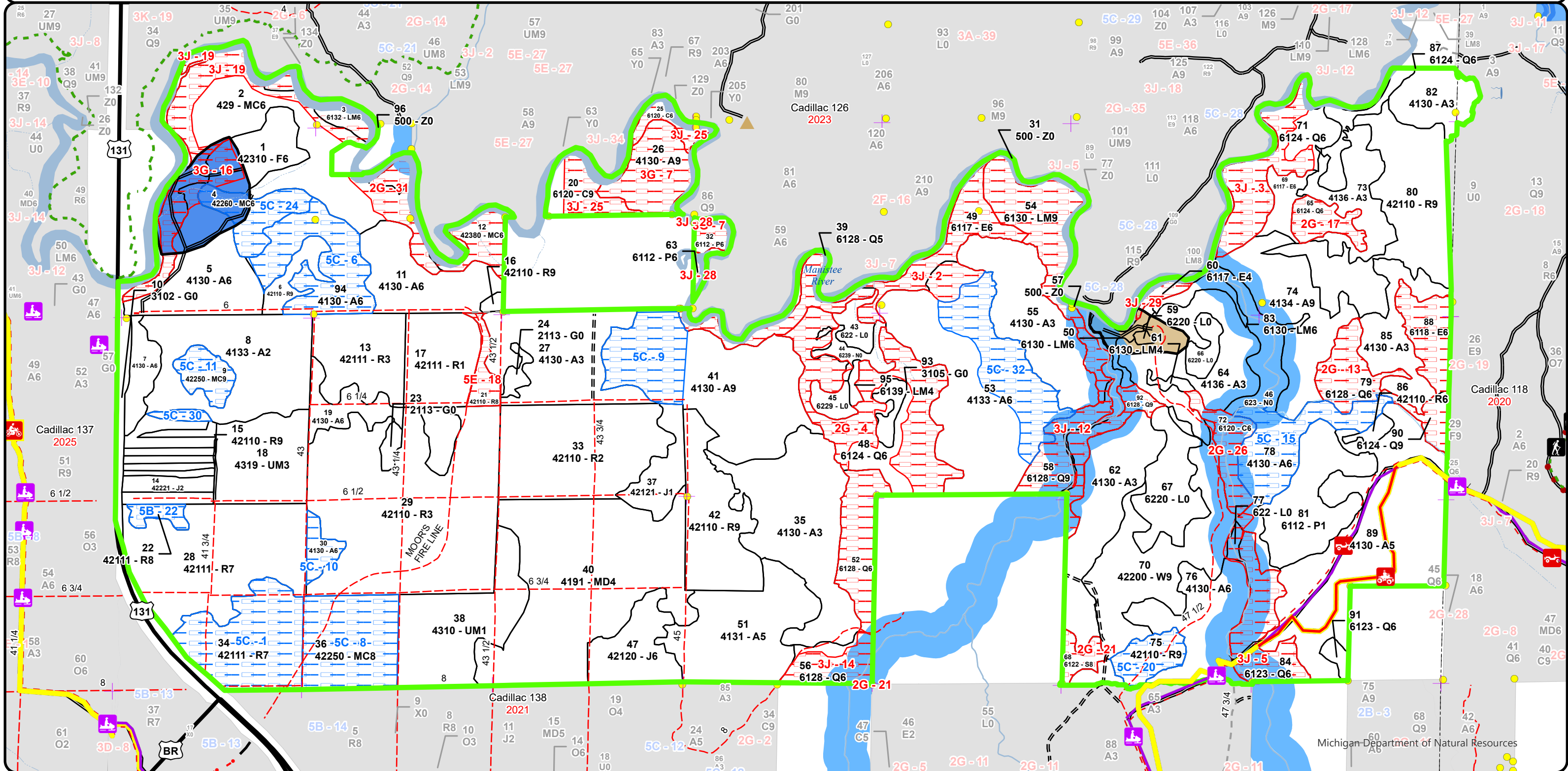
Miles

- Berms
- Bridges
- Culvert
- Survey Grade Corners
- Remunemented Section Corners
- Hiking Trails
- Horse Trails
- MCCCT Trails
- ORV Trails

- ORV Routes
- Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers

- Compartment Boundary
- Counties
- SCA
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Boat Access Site
- State Forest Campground
- Trail Head
- Designated Equestrian Trails
- Designated Hiking Pathways
- Designated ORV Routes
- Designated MCCCT Trails

5B: Maintain for regeneration purposes
 5C: Delay treatment for age/size class diversity or exceptional site quality
 2G: Too wet (sensitive soils, does not include access issues)
 3G: Other Influence zones - See comments
 3J: Water quality / BMPs (stream, river, or lake)
 5E: Long-Term Retention



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 51

Year of Entry 2026

Andrew Krugh : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	272	116	0	11	100	222	280	0	24	0	0	0	0	0	0	0	0	1023
Cedar	0	0	0	0	0	0	0	0	0	0	6	13	0	0	15	0	0	0	34
Cropland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	0	34	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Aspen/Balsam Poplar	0	38	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	44
Lowland Conifers	0	0	0	0	0	0	64	3	102	21	0	32	0	27	0	0	0	0	249
Lowland Deciduous	0	0	0	0	0	8	0	3	21	17	0	0	0	0	0	0	0	0	49
Lowland Mixed Forest	0	0	0	0	0	13	0	7	41	2	0	0	0	0	0	0	0	0	63
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Marsh	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Mixed Upland Deciduous	0	0	0	0	0	118	0	0	0	0	0	0	0	0	0	0	0	0	118
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	28	40	0	0	0	0	0	0	0	68
Red Pine	0	199	63	0	0	0	0	120	31	0	57	0	0	0	0	0	0	76	546
Upland Conifers	0	0	0	0	0	0	0	0	86	0	0	0	0	11	0	0	0	0	97
Upland Mixed Forest	0	0	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Upland Spruce/Fir	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	22
Water	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
White Pine	0	0	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	0	58
Total	145	509	298	0	36	239	286	435	345	92	109	45	0	38	15	0	0	76	2666



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Compartment 51

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 2,664

Commercial Harvest - 441
 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	Overshory Removal	Salvage	Other	Total Acres
Aspen	348	0	0	0	0	0	0	0	0	348
Jack Pine	15	0	0	0	0	0	0	0	0	15
Red Pine	19	0	0	0	0	0	0	0	0	19
Upland Conifers	0	0	0	0	42	0	0	0	0	42
Upland Spruce/Fir	0	0	0	17	0	0	0	0	0	17
Total	382	0	0	17	42	0	0	0	0	441

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	441	0	0	0	0	38	0	7	0	486
Next Step	0	68	68	0	0	117	475	0	0	728
Total	441	68	68	0	0	117	513	0	7	1214



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

1	63051001-Cut	16.7	42310 - Planted Spruce	Poletimber Well	67	171-200	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription Specs:</u> Retain acreage by excluding campground portion of stand. Mark retention trees favoring quality white pine with mast potential 3-6 per acre.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> White pine, spruce, maple, aspen, birch, balsam, hemlock, cedar.</p> <p><u>Other Comment:</u> Limit harvest to outside of campground operating season.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>											
2	63051002-Cut	42.4	429 - Mixed Upland Conifers	Poletimber Well	73	111-140	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription Specs:</u> Cut all aspen, spruce, maple, balsam fir. Cut all white pine smaller than 8 inches at DBH. Where ephemeral stream is present in "middle finger" follow appropriate BMPs.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> White pine, balsam fir, aspen, maple, birch, spruce, hemlock, cedar, oak, ash</p> <p><u>Other Comment:</u> Retention will vary across the stand due to natural conditions with some areas having 80+ BA and other with 0-10BA post harvest. Area will vary in size and shape depending on ground conditions when being prepped. Follow the ridge along the river as a natural boundary. Limit harvest to outside of campground operating season.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>											
5	63051005-Cut	38.7	4130 - Aspen	Poletimber Well	62	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Retain all oak and red pine. In addition leave 3-10 percent area retention. Area may vary is size and shape depending on changes near developed recreational site.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, maple, white pine, oak, cherry, hemlock, cedar.</p> <p><u>Other Comment:</u> Check with recreation on potential buffers for developed rec site. Limit harvest to outside of campground operating season.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</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
11 63051011-Cut	34.3	4130 - Aspen	Poletimber Well	62	111-140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest leave 1-3 mature oaks per acre where present. Leave trees greater than 26 inches at DBH. In addition leave 3-10 percent retention. area may vary is size and shape depending on ground conditions when being prepped. Additional area retention is acceptable for dispersed camping buffers.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked aspen, maple, pine, fur, spruce.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
14 63051014-Cut	15.2	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	15	Immature	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all species 2" and greater. Replant with adjacent red pine final harvest</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release; Pesticide, Aerial - Release; Planting, Replant; SitePrep, Roller Chopping; Pesticide, Skidder</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Hold two years post-harvest to allow Jack Pine to resprout before planting operations</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
15 63051015-Cut	18.7	42110 - Planted Red Pine	Sawtimber Well	72	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest with adjacent strips and replant to red pine. Adjacent strips will need roller chopping.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release; Pesticide, Aerial - Release; Planting, Replant; Pesticide, Skidder</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Hold two years post-harvest to allow Jack Pine to resprout before site prep.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
19 63051019-Cut	20.4	4130 - Aspen	Poletimber Well	62	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Retain all merchantable oak trees. Additionally retain white pine over 12". Retain 3-10% of the area in Eastern portion of stand. The 3-10% should be based on the Eastern portions acreage only.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, oak, pine, cherry</p> <p><u>Regen:</u></p> <p><u>Other</u> Boundaries can be designated and not painted. Retention of all oak gives a seed source in western portion of stand where the aspen is senescing and may not respond well to harvest. NW corner excluded for 3-10% retention.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
23	63051023-NF	3.1	2113 - Forage Crops	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
24	63051024-NF	3.5	2113 - Forage Crops	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Maintain stand as non-forested herbaceous openland for wildlife habitat through various methods that may include mowing, tilling, planting, overseeding and brushing or targeted herbicide application.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
41	63051041-Cut	56.2	4130 - Aspen	Sawtimber Well	59	171-200	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest leave 1-3 mature oaks per acre where present. Retain all elm. Retain all trees greater than 26 inches at DBH. In addition leave 3-10 percent area retention. Area may vary is size and shape depending on ground conditions when being prepped.</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> Aspen, maple, oak, pine, and fur.</p> <p><u>Other Comment:</u> Use the slope in the north and wet seeps in the east for the 3-10% area retention. Likely a winter or dry summer harvest</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
53	63051053-Cut	59.8	4133 - Aspen, Mixed Pine	Poletimber Well	68		Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest leave 1-3 mature oaks per acre where present. Retain trees greater than 26 inches at DBH. In addition leave 3-10 percent retention. area may vary is size and shape depending on ground conditions when being prepped.</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, pine and fur</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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
74 63051074-Cut	44.3	4134 - Aspen, Spruce/Fir	Sawtimber Well	61	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all deciduous trees 2 inches and all conifer 6 inches greater at DBH. Leave 3-10 percent retention. Acreage may vary depending on ground conditions when prepped.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Moderate to fully stocked aspen, maple, birch, pine, and fir.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
81 63051081-Monitor	37.9	6112 - Lowland Aspen	Sapling Poor	6	1-50	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Check on regeneration. As of Feb 2024 regeneration was sparse in significant sections of the stand and wetland vegetation was present. Good stocking of aspen along the edges. Low stocking is an acceptable outcome.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, maple, cedar, spruce, balsam fir, white pine</p> <p><u>Other Comment:</u> Part of an informal experiment where lowland mixed spruce stands were harvested. These stands may take up to 20-30 years to reforest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2033</p>										
89 63051089-Cut	94.6	4130 - Aspen	Poletimber Medium	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Retain pine greater than 16 inches at DBH. Retain oak greater than 12 inches at DBH. Cut all other trees. Acreage may change depending on ground conditions when setting up treatment.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Moderate to fully stocked aspen, maple, oak, pine, and fir.</p> <p><u>Other Comment:</u> The current treatment leave 7.5% in area retention and ~2% in BA retention. These areas were chosen at the pre-review to increase seeding into adjacent stand 81 while reducing windthrow probability across the motorized trail. The scattered leave trees will provide alternative regeneration opportunities in a poor vigor aspen stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment Acreage Proposed: 485.8

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 51
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5B	5C	2G	3G	3J	5E
1026	859	135	33	Aspen		135		26	7	0
35	4	0	31	Cedar			13		18	
7	7	0	0	Cropland						
15	15	0	0	Herbaceous Openland				0		
58	56	3	0	Jack Pine		3				
44	38	0	6	Lowland Aspen/Balsam Poplar				4	1	
248	35	0	213	Lowland Conifers			110		103	
49	8	0	41	Lowland Deciduous			17		24	
63	14	0	48	Lowland Mixed Forest			4		44	
47	45	0	2	Lowland Shrub					2	
6	0	0	6	Lowland Spruce/Fir			6			
24	24	0	1	Marsh			1			
118	118	0	0	Mixed Upland Deciduous						
67	0	67	0	Natural Mixed Pines		67				
546	477	62	7	Red Pine	5	58				7
97	44	0	53	Upland Conifers			21	12	20	
85	85	0	0	Upland Mixed Forest						
22	17	0	5	Upland Spruce/Fir				5		
51	50	0	1	Water				0	1	
57	57	0	0	White Pine					0	
2,667	1,953	267	447	Total Forested Acres	5	262	172	47	221	7
	73%	10%	17%	Relative Percent						

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 51
Year of Entry: 2026

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	41	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Stand is located on the floodplain of the Manistee River.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	2F: Too steep	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: available portion of the stand is under a prescription, remainder of stand is within Natural River Buffer or too steep to harvest.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	77	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Stand is a buffer along the Morris Creek a natural river tributary.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3G: Other Influence zones - See comments	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Borders the Manistee river providing scenic and recreational value. Access issues.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 51
Year of Entry: 2026

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	63	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 51
Year of Entry: 2026

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3G: Other Influence zones - See comments	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Contains Chippewa Landing Canoe Livery.							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 51
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19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	29	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Stand occurs along the floodplain of the Manistee River. (Natural River)							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	2G: Too wet (sensitive soils, does not include access issues)	3G: Other Influence zones - See comments	Unspecified	Unspecified
Comments: Most of stand in buffer to manistee							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh : Examiner

Compartment: 51
Year of Entry: 2026

26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Stand occurs along the floodplain of the Manistee River.							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
1	42310 - Planted Spruce	Poletimber Well	22.0	67	171-200	N/A	White spruce and white pine plantation adjacent to Chippewa Campground. Western part of the stand has campground sites within stand boundary.																																																																						
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2	429 - Mixed Upland Conifers	Poletimber Well	85.9	73	111-140	N/A	Stand occurs along the river. Some of the stand has hummucky soil. Occasional small interior wet pockets are easily spotted by lack of canopy and alder/musclewood. Primarily areas of mixed balsam and aspen. There are pockets of good white pine as well as a few areas of quality cedar/ hemlock. Old spruce plantation in NE of stand. Hiking trail just north of campground. Culvert under road where stands 1,2&4 meet																																																																						
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3	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	13.3	45	1-50	N/A	seasonal flooded areas along the river edge domintated by tag alder and maple with scattered cedar																																																																						
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4	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	17.2	85	141-170	N/A	Campground trail west of the road. Ephemeral stream west of the road along the northern stand boundary. A few areas within the stand are seasonally wet.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
5	4130 - Aspen	Poletimber Well	40.8	62	111-140	N/A	Stand of variable aged quaking aspen with smaller diameter red maple and scattered white pine. Adjacent to Chippewa landing access road. Flat stand with mixed quality timber.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Pole/Log	8		Red Maple		Low	Variable	Sapling
Quaking Aspen		65	Pole/Log/Sap	9	62	White Oak		Low	10 - 20 feet	Sapling
Bigtooth Aspen		4	Log	12		Witch Hazel		Medium	5 - 10 feet	Tall Shrub
White Oak		1	Pole	6		White Pine		Low	Variable	Sapling
White Pine		10	Log	12						
6	42110 - Planted Red Pine	Sawtimber Well	9.2	64	141-170	N/A	Stand was thinned in 2006. Stand thinned again in 2016 C51 Pine 63-004-16..			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log	12	64	Red Maple	High	< 5 feet	Sapling	
7	4130 - Aspen	Poletimber Well	11.3	32	51-80	N/A	Stand borders US-131, stand was created by construction of 131. Stand was final harvested in 1992 #6 Road Aspen 63-040-91.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		85	Pole	6	32	Red Maple		Medium	Variable	Sapling
White Pine		4	Log	12		White Oak		Trace	>20 feet	Sapling
Red Maple		10	Pole	5		Witch Hazel		Low	5 - 10 feet	Tall Shrub
Red Pine		1	Log	12		White Pine		Low	Variable	Sapling
8	4133 - Aspen, Mixed Pine	Sapling Medium	60.5	8	Immature	N/A	Stand was final harvested in winter 2017, all white pine under 6 inches in diameter was left. Stand should be a mix of aspen, maple and pine. Road bermed after sale.			
Canopy Species		% Cover	Size Class	DBH	Age					
Bigtooth Aspen		55	Sapling	1	8					
Red Maple		15	Sapling	1						
Jack Pine		5	Sapling	1						
White Oak		3	Pole	6						
Black Cherry		1	Sapling/Pole	4						
Red Pine		1	Pole	5						
White Pine		20	Pole	7						
9	42250 - Pine, Oak	Sawtimber Well	10.5	88	51-80	N/A	Stand was thinned 2009 Porkies Pine 63-067-06. All aspen jack pine and maple were removed by spec with the white pine marked for removal All oak was left.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak		35	Log/Pole	12		White Pine		Low	< 5 feet	Sapling
White Pine		65	Log/Pole	13	88	Red Maple		Low	5 - 10 feet	Sapling
						Aspen (spp.)	Low	5 - 10 feet	Sapling	
10	3102 - Grass	Nonstocked	10.2			No	US-131 ROW			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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11 4130 - Aspen Poletimber Well 34.4 62 111-140 N/A Various aged clones and diameters with a mix of aspen species.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8		White Pine	Low	Variable	Sapling
Quaking Aspen	50	Pole/Log	8	62	Balsam Fir	Low	Variable	Sapling
White Pine	5	Log/Pole	13		Black Cherry	Low	Variable	Sapling
Bigtooth Aspen	30	Log	12	62	Red Maple	Low	Variable	Sapling
White Oak	2	XLog	18					
Black/Red (Hybrid) Oak	3	Log/Pole	10					

12 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Well 11.3 120 81-110 N/A This stand is seasonally flooded due to the close proximity to the Manistee River. Inaccessible for harvest

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	40	Pole/Log	8	120
Quaking Aspen	10	Pole	6	
Balsam Fir	20	Pole/Sapling	5	
Paper Birch	10	Pole	6	
Red Maple	10	Log/Pole	10	
Hemlock	5	Pole/Log	8	
White Pine	5	XLog/Log	20	

13 42111 - Planted Red Pine, Mixed Deciduous Sapling Well 33.3 13 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Sapling	1	
Jack Pine	5	Sapling	1	
Red Pine	58	Sapling	1	13
Bigtooth Aspen	5	Sapling	2	
Red Pine	5	Log	12	
Northern Pin Oak	2	Sapling	1	

Stand was thinned 92 Manton Jack Pine 63-052-91. During sale it was cut all jack pine, aspen, mixed hardwood and oak, leaving all red pine. Stand was a seed tree cut in 2007. Following the cut the original prescription called for a post harvest burn to encourage natural red pine regeneration. During the burn many of the seed trees were damaged and died. The stand was then trenched and planted to red pine in the spring of 2011. This stand has been updated from a field evaluation for a project on free to grow red pine.

14 42221 - Natural Jack Pine, Mixed Deciduous Sapling Medium 17.7 15 Immature N/A Following the final harvest of the adjacent red pine strips this entry this stand along with the adjacent stand will be planted to red pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Quaking Aspen	15	Sapling	2	
Jack Pine	70	Sapling	2	15
White Oak	5	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
15	42110 - Planted Red Pine	Sawtimber Well	18.7	72	141-170	N/A	Stand was thinned last entry. Stand thinned again in 2016 C51 Pine 63-004-16.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log	12	72	White Pine		Low	5 - 10 feet	Sapling
						White Oak		Medium	5 - 10 feet	Sapling
						Red Maple		Medium	< 5 feet	Sapling
						Jack Pine	Low	5 - 10 feet	Sapling	
16	42110 - Planted Red Pine	Sawtimber Well	1.6	64	111-140	N/A	Stand was thinned in 2006. Stand thinned again in 2016 C51 Pine 63-004-16.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	64	Red Maple	Medium	< 5 feet	Sapling	
17	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	29.6	10	1-50	N/A	Stand will become a red pine stand with areas of mixed hardwoods and aspen. Stand was thinned 92 Manton Jack Pine 63-052-91. During sale it was cut all jack pine, aspen, mixed hardwood and oak, leaving all red pine. Stand was final harvested in 2010. Previous to this sale stand notes are; Test area for red pine regen using prescribed fire before cutting compared to stand to west which was burned after. Stand planted in 2015. Regen check in 2016. 586 TPA red pine 333 Other species. Look at replanting.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		5	Sapling	2						
Jack Pine		5	Pole/Sapling	5						
Quaking Aspen		10	Sapling	1						
Black Cherry		3	Sapling	2						
Northern Pin Oak		7	Sapling	2						
18	4319 - Mixed Upland Forest	Sapling Well	36.0	14	Immature	N/A	Red pine stand planted in spring of 2010. This stand has been updated from a field evaluation for a project on free to grow red pine.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		15	Sapling	2						
Bigtooth Aspen		10	Sapling	3						
Red Pine		40	Sapling	2	14					
Northern Pin Oak		5	Pole	7						
Red Maple		5	Sapling	1						
Black Cherry		25	Sapling	1						
19	4130 - Aspen	Poletimber Well	21.7	62	81-110	N/A	Slow growing quaking aspen stand with scattered jack pine and oak. Handful of large white pine within the stand. Some spots of quality red maple and oak regen understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole	5		White Oak		Low	Variable	Sapling
Quaking Aspen		77	Pole	7	62	Witch Hazel		Low	5 - 10 feet	Tall Shrub
Jack Pine		10	Pole/Sapling	7		Quaking Aspen		Low	Variable	Sapling
White Oak		3	Pole	5		Red Maple		Medium	Variable	Sapling
Black/Red (Hybrid) Oak		2	Pole/Sapling	5						
Black Cherry		1	Pole	6						
White Pine		2	Log	14						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
20	6120 - Lowland Cedar	Sawtimber Well	15.4	130	141-170	N/A	Lowland cedar cored for age determination. Variable BA with internal wetlands, seasonally flooded in areas. Ash has fallen out of the stand.																													
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21	42110 - Planted Red Pine	Sawtimber Medium	6.8	97	1-50	N/A	Stand was harvested in 2008. 30BA of red pine was left. Aspen from adjacent sale to the east is creeping into the stand.																													
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22	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	4.9	96	81-110	N/A	Small stand harvested in 2006 entry and poles were removed. Red maple and white oak in the understory																													
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23	2113 - Forage Crops	Nonstocked	3.1			Managed Opening	Wildlife managed rye field (2014)																													
24	2113 - Forage Crops	Nonstocked	3.5			Managed Opening	Wildlife managed rye field																													
25	6120 - Lowland Cedar	Poletimber Well	6.2	90	111-140	N/A	Stand is seasonally flooded.																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 4130 - Aspen Sawtimber Well 23.9 80 111-140 N/A Variable density stand with multiple aspen clone ages.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	12	Log	10		White Pine	Medium	Variable	Sapling
Red Oak	5	Log/XLog	17		White Oak	Low	Variable	Sapling
Quaking Aspen	13	Pole	8		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	10	Pole	7		Red Maple	Low	Variable	Sapling
Bigtooth Aspen	50	Log	13	80				
White Pine	5	Log	12					
Balsam Fir	5	Pole	8					

27 4130 - Aspen Sapling Well 49.8 17 Immature N/A Stand was harvested in 2007. 10 BA of white pine was left. Stand is regenerating well. Managed wildlife opening in the SW portion of stand.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Sapling	2	
Quaking Aspen	75	Sapling	2	17
Bigtooth Aspen	10	Sapling	2	17
Red Maple	5	Sapling	2	17
White Pine	5	Log/Pole	10	

28 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Poor 75.9 97 1-50 N/A Good aspen response to cutting. Decent maple and oak understory in spots despite browse pressure.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Log/Pole	13		Red Maple	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	5		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Red Pine	75	Log	13	97	Jack Pine	Medium	< 5 feet	Sapling
					White Oak	Medium	5 - 10 feet	Sapling

Stand was cut in 2016, all aspen, red maple and jack pine was cut by spec red pine was thinned by marking. Advanced maple and oak regeneration was worked around.

29 42110 - Planted Red Pine Sapling Well 134.3 8 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Sapling	1	
Black/Red (Hybrid) Oak	10	Sapling	2	
Red Pine	85	Sapling	1	8

Red pine was harvested to a BA of 30 in 2009. Original prescription called for natural regeneration. Following the regeneration survey it was determined to change to regeneration from natural to planted pine. In order to accomplish this the remaining 30 BA of red pine is slated for removal followed by trenching and hand planting of the stand. This stand was a timber sale contract (63-009-13 Take 30 Pine). Stand has been site prep and planted to red pine in 2016.

10/20/18 Regen Check: Red pine stocking is very good, trees are ~1' tall. Oak is stump sprouting heavily across site, though not posing huge competition concern currently due to size. ~100 TPA of jack pine across site. Smaller oaks (currently ~5 in DBH) were left in last timber sale across the site, a mixed forest objective is probably most realistic due to these residual trees. Trenches were starting to fill in.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
30	4130 - Aspen	Poletimber Well	6.5	58	51-80	N/A	Very poor quality aspen, 1-3 stick trees. Scattered oak, cherry, and jack pine. Decent quality red maple regen in spots. Consider letting stand go through succession to red maple and oak																																					
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31	500 - Water	Nonstocked	23.9			No	Manistee River																																					
32	6112 - Lowland Aspen	Poletimber Well	4.5	75		N/A	Stand is aspen with lowland conifer growing on river edge.																																					
33	42110 - Planted Red Pine	Sapling Medium	64.9	5	Immature	N/A	Stand was final harvested in June 2017. Stand is to be herbicide site prep sprayed, trenched and planted to red pine. 10/18- Site was site prep sprayed 9/8/2018. Planted Spring 2019. REGEN CHECK 2019 Fall- 65% survival, limited to no competition free to grow. Needs Replant to fill in where trees died. 4/29/21- replanted. Regeneration check fall 2021- Full stocked and FTG																																					
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34	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Poor	45.4	97	51-80	N/A	Stand was harvested 2009 with Highway Pine. Red pine was left during previous entry for visual along the highway.																																					
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35	4130 - Aspen	Sapling Well	69.1	8	Immature	N/A	Stand was final harvested in winter of 2017. All roads entering stand were bermed. Short wood operation.																																					
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36	42250 - Pine, Oak	Sawtimber Medium	39.7	97	1-50	N/A	Red pine and white oak stand. Stand has a vigorous oak understory with a mix of red maple and jack pine. Regen is above the browse line and should grow well into the overstory. Stand was shelterwood harvested in 2006YOE.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Poor	15.8	14	Immature	N/A	Stand was final harvested in 2007 Tea Kettle Jack 63-13-06. Sale specs were leave green marked trees and all oak. Stand was plated to jack pine in spring 2010
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Sapling	2	
Red Maple	10	Sapling	2	
Quaking Aspen	15	Sapling	2	
Jack Pine	65	Sapling	2	14
White Oak	5	Log	12	

38	4310 - Pine, Oak Mix	Sapling Poor	49.1	15	1-50	N/A	Stand was harvested 2009 Highway Pine 63-006-06. Oak overstory was left. Seedling stand of jack pine and oak.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	15
White Oak	45	Sapling	2	15
Jack Pine	45	Sapling	2	
Northern Pin Oak	5	Sapling	2	

39	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	13.6	80	51-80	N/A	Stand is a mix of lowland conifers and white pine with some hardwoods. Appears to be seasonally flooded.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Log	9	
Red Maple	5	Pole	8	
Balsam Fir	25	Pole	8	
White Pine	25	Log	14	80
Quaking Aspen	15	Log	12	
Northern White Cedar	25	Pole/Log	9	

40	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	118.3	42	1-50	N/A	Scattered jack pine and aspen clones mixed a few large scattered oaks. Aspen clones vary in vigor. Former inventory notes that the area burned by fire ~1982?
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	35	Pole/Sapling	5	42
Black Cherry	5	Sapling/Pole	4	42
Red Maple	10	Pole/Sapling	5	
White Oak	25	Pole/Sapling	5	
Northern Pin Oak	3	Sapling/Pole	4	
Quaking Aspen	10	Pole	6	
Bigtooth Aspen	10	Pole	7	
White Oak	2	Log	15	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
41	4130 - Aspen	Sawtimber Well	84.2	59	171-200	N/A	Stand is a mix of clones and pockets of white pine and balsam fir. Gets wetter as you move north and east through stand. Scattered wet pockets interior. Part of stand to south that was left uncut last YOE.																																								
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42	42110 - Planted Red Pine	Sawtimber Well	40.5	63	141-170	N/A	Stand was thinned in 2006 Pine Flush 63-12-06 (Third row thin). Stand thinned again in 2016 C51 Pine 63-004-16..																																								
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43	622 - Lowland Shrub	Nonstocked	6.2			No																																									
44	6239 - Mixed Emergent Wetland	Nonstocked	7.0			No																																									
45	6229 - Mixed lowland shrub	Nonstocked	5.3		Immature	No																																									
46	623 - Emergent Wetland	Nonstocked	17.3	0		No	Morrisy creek along the western edge of the stand.																																								
47	42120 - Planted Jack Pine	Poletimber Well	24.6	34	51-80	N/A	Stand was final harvested in 1992 Wexford Jack Pine 63-038-91. Re planted/seeded to jack pine.																																								
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48	6124 - Lowland Spruce-Fir	Poletimber Well	64.3	52	81-110	N/A	Transition between upland aspen to the west and lowland complex to the east. Abundant ephemeral streams and seeps																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 20.9 75 51-80 N/A Seasonally flooded hardwood with balsam fir and white pine.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	15	Pole/Log	8	
Paper Birch	5	Pole/Sapling	5	
Balsam Fir	25	Pole/Log/Sap	7	
Red Maple	35	Log/Pole	10	75
White Pine	15	Log/Pole	13	
Quaking Aspen	5	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling

50 6130 - Fir, Aspen, Maple Poletimber Well 5.7 77 51-80 N/A

This is the uncut portion of stand 58 that occurs along the river edge and along the floodplain of the river. A pair of old wooden stairs lead down to the river. Unsure if they were DNR origin or user made.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	20	Pole/Sap/Log	6	
White Pine	15	Log	14	
Quaking Aspen	35	Pole/Log	8	77
Black Spruce	10	Pole/Sapling	5	
Paper Birch	5	Pole/Sapling	5	
Red Maple	15	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling

51 4131 - Aspen, Oak Poletimber Medium 53.5 46 1-50 N/A

Stand is a mix of aspen clones and large open grown oaks. Previous inventory indicates a wildfire in the stand ~1984

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Log	11	
White Oak	20	Pole	7	
Red Maple	15	Pole/Sapling	5	
White Oak	5	Log	15	
Black/Red (Hybrid) Oak	5	Log	16	
Quaking Aspen	45	Pole	7	46

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	5 - 10 feet	Sapling
Aspen (spp.)	Low	>20 feet	Sapling
Red Maple	Low	>20 feet	Sapling

52 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 23.2 72 81-110 N/A

The stand borders private parcel to the east. The stand is wetter the closer to private boundary.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole	7	
Northern White Cedar	5	Pole	7	
Red Maple	15	Pole	6	
Balsam Fir	35	Pole	7	72
White Pine	20	Pole/Log	9	
Quaking Aspen	15	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
53	4133 - Aspen, Mixed Pine	Poletimber Well	102.0	68		N/A	stand is the uncut portion of stand 55																																												
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55	4130 - Aspen	Sapling Well	46.8	10	Immature	N/A	Stand was final harvested in winter of 2015(Haul Road Aspen, 63-045-11), access was granted through Hall property. Was a short wood operation. Some wet pockets but mostly upland. Wood was forwarded 1/2 mile south to landing in stand 53. Came back patchy in pockets as a result of wet conditions.																																												
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Quaking Aspen	75	Sapling	1	10																																															
56	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.4	107	51-80	N/A	Wet forested stand with hummocky ground. Northern edge is upland aspen mix																																												
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57	500 - Water	Nonstocked	6.0			No	Chase Creek																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	15.3	122		N/A	Chase Creek runs through this stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	6	
Quaking Aspen	15	Pole	7	
Balsam Fir	20	Pole/Log	8	
Northern White Cedar	25	Log/Pole	13	122
White Pine	15	Log/Pole	14	
Black Spruce	15	Pole/Log	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling

59	6220 - Alder/willow	Nonstocked	1.0			No	A couple of aspen within the low pocket
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60	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	2.9	62	1-50	N/A	Stand occurs along the floodplain of the Manistee River. Seasonally flooded hardwood with wet areas.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole	7	62
Paper Birch	15	Pole/Log	8	
Quaking Aspen	25	Pole	6	
Balsam Fir	30	Pole	6	

61	6130 - Fir, Aspen, Maple	Poletimber Poor	2.0	65	1-50	N/A	Lowland headwaters of a stream. Small culvert under road for flow.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	13	
Balsam Fir	40	Pole	8	
Quaking Aspen	55	Log	12	65

62	4130 - Aspen	Sapling Well	43.9	6	Immature	N/A	Stand was final harvested in 2017 Chasing Aspen 63-016-16.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Quaking Aspen	75	Sapling	1	6
White Pine	10	Sapling	1	
Balsam Fir	5	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling

63	6112 - Lowland Aspen	Poletimber Well	1.1	75		N/A	Stand is aspen with lowland conifer growing on river edge.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64 4136 - Aspen, Mixed Conifer Sapling Well 46.1 7 Immature N/A Stand was final harvested in 2017 Chasing Aspen 63-16-016.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65	Sapling	1	7
White Pine	10	Sapling	1	
Balsam Fir	15	Sapling	1	
Red Maple	10	Sapling	1	

65 6124 - Lowland Spruce-Fir Poletimber Well 10.3 77 Unspecified N/A Upland transition into a lowland complex along the river.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	20	Log/Pole	13		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	15	Pole/Log	8		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	35	Pole/Log/Sap	7	77				
Red Maple	10	Pole	7					
Black Spruce	15	Pole	6					
Balsam Poplar	5	Pole	6					

66 6220 - Alder/willow Nonstocked 6.8 No Edge of stand has balsam, spruce, and aspen trees

67 6220 - Alder/willow Nonstocked 25.8 Immature No Some scattered trees across stand

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	High	Variable	Sapling
Alder	High	5 - 10 feet	Tall Shrub

68 6122 - Black Spruce Sawtimber Medium 5.8 97 81-110 N/A Spruce-fir stand with interior alder wetland

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	15		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	25	Pole/Log	9					
Black Spruce	60	Log	11	97				
Tamarack	10	Log	13					

69 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 8.2 46 Unspecified N/A stand transitioning from upland to lowland to the north.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Log/Pole	10		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Paper Birch	20	Pole	5		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	30	Pole	8	46				
Red Maple	25	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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70	42200 - Natural White Pine	Sawtimber Well	57.5	72	51-80	N/A	Stand was thinned last entry. All aspen and maple was cut and white pine was thinned.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	95	Log	13	72	Aspen (spp.)	Medium	10 - 20 feet	Pole
Paper Birch	5	Pole	7		White Pine	Medium	< 5 feet	Sapling
					Balsam Fir	Low	< 5 feet	Sapling
					Red Maple	Low	5 - 10 feet	Sapling

71	6124 - Lowland Spruce-Fir	Poletimber Well	34.0	77	Unspecified	N/A	seasonally flooded stand of aspen along the manistee river. open areas where water persists.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	37	Pole/Sap/Log	7	77
Black Spruce	15	Pole	6	
Red Maple	5	Pole	7	
Northern White Cedar	20	Log/Pole	13	
Paper Birch	3	Pole	6	
Quaking Aspen	20	Pole/Log	8	

72	6120 - Lowland Cedar	Poletimber Well	13.2	106	Unspecified	N/A	Morrissy Creek runs through the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	25	Log	6					
Northern White Cedar	65	Pole/Log	8	106				

73	4136 - Aspen, Mixed Conifer	Sapling Well	25.4	5	Immature	N/A	Upland transition into a lowland complex along the river. Treated with sale Way Back Aspen in 2018-2020.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	3	Sapling	1		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	7	Log/Pole	13		Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	10	Sapling	1	5				
Quaking Aspen	65	Sapling	1	5				
Red Maple	15	Sapling	1					

74	4134 - Aspen, Spruce/Fir	Sawtimber Well	44.3	61	81-110	N/A	Morrissy creek along the western edge of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole/Sapling	6	
Red Maple	15	Pole/Log	8	
Bigtooth Aspen	60	Log/Pole	11	61
Paper Birch	5	Pole	7	
Balsam Fir	15	Pole/Log	9	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
75	42110 - Planted Red Pine	Sawtimber Well	12.1	78	81-110	N/A	12/18/20 - Stand was thinned to 100. Sale was Dusty Pine Trail Sale Number 63-17-16																																					
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76	4130 - Aspen	Poletimber Well	45.8	42	Unspecified	N/A	pole sized aspen with white pine.																																					
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77	622 - Lowland Shrub	Nonstocked	1.9			No	Mix of alder and a few small trees along creek																																					
78	4130 - Aspen	Poletimber Well	28.6	56	Unspecified	N/A	upland aspen and maple with balsam fir understory																																					
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79	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.5	108	51-80	N/A	Flower creek along southern boundary. Water runs through stand to the south to flower creek.																																					
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80	42110 - Planted Red Pine	Sawtimber Well	65.9	65	81-110	N/A	Red pine was row thinned (2008 Long pine/aspen Haul). All aspen was also cut within stand which created a few small aspen clones within the larger stand. North edge of stand borders Manistee River. A scattering of balsam in the understory in the northern portion of the stand. Stand thinned again in 2016 C51 Pine 63-004-16.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
81	6112 - Lowland Aspen	Sapling Poor	37.9	6	1-50	N/A	Was harvested winter of 2018/2019 Chasing Aspen 63-016-16. Stand was dominated by cedar, with spruce, balsam fir, tamarack and red maple.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		30	Sapling	1	6			
Bigtooth Aspen		70	Sapling	1	6			
82	4130 - Aspen	Sapling Well	19.7	16	Unspecified	N/A	Aspen stand was final harvested (2008 Long pine/aspen Haul). 10BA of white pine were left. small wet area in middle of stand and stand borders the Manistee River to the north. Aspen is regenerating well.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		5	Log/Pole	12				
Red Maple		15	Sapling	1				
Bigtooth Aspen		80	Sapling	1	16			
83	6130 - Fir, Aspen, Maple	Poletimber Well	4.9	64	111-140	N/A	Morrissy Creek along the eastern boundary and wetland to the SW. Transition from upland stand to the west to a more lowland to the NE as stand meets the river and creek.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Spruce		10	Pole/Sapling	5				
Jack Pine		10	Pole/Sapling	5				
Red Maple		10	Pole	6				
Quaking Aspen		35	Pole/Log	9	64			
Balsam Fir		20	Pole	7				
White Pine		15	Log	14				
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low	10 - 20 feet	Sapling				
Balsam Fir		Low	< 5 feet	Sapling				
84	6123 - Lowland Fir	Poletimber Well	24.5	74	81-110	N/A	Morrissy Creek runs through the stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		10	Pole	5				
Balsam Fir		55	Pole	8	74			
Northern White Cedar		25	Log/Pole	12				
Red Maple		10	Pole	5				
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Fir		Low	5 - 10 feet	Sapling				
85	4130 - Aspen	Sapling Well	26.2	5	Immature	N/A	stand was harvested with way back aspen 2020.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Oak		10	Sapling	1				
Red Maple		25	Sapling	1				
Bigtooth Aspen		65	Sapling	1	5			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low	10 - 20 feet	Sapling				
White Oak		Low	5 - 10 feet	Sapling				
86	42110 - Planted Red Pine	Poletimber Well	2.9	64	111-140	N/A	12/18/20 - Stand was cut part of Dusty Pine Trail Sale # 63-017-16. Rows were very tight during harvest. Sale was cut with row spacing of cut 2 leave 3 to make it easier for future management.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		100	Pole/Log/Sap	7	64			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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87	6124 - Lowland Spruce-Fir	Poletimber Well	9.8	77	Unspecified	N/A	Upland transition into a lowland complex along the river. Treat eastern portion of stand with comercial harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	7	
Northern White Cedar	20	Log/Pole	13	
Balsam Poplar	5	Pole	6	
Balsam Fir	35	Pole/Log/Sap	7	77
Quaking Aspen	15	Pole/Log	8	
Black Spruce	15	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

88	6118 - Lowland Deciduous with Cedar	Poletimber Well	16.8	81	81-110	N/A	wet drainage through stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	5	
Balsam Fir	10	Pole	6	
Paper Birch	10	Pole	6	
Northern White Cedar	30	Pole	6	81
Quaking Aspen	30	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling

89	4130 - Aspen	Poletimber Medium	102.5	53	81-110	N/A	Lot of old pine stumps. May consider planting to pine to supplement poorer quality aspen following harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	6	
Bigtooth Aspen	35	Pole	8	
White Pine	10	Pole	7	
Quaking Aspen	45	Pole	8	53

90	6124 - Lowland Spruce-Fir	Sawtimber Well	7.1	83	141-170	N/A	retain as wildlife cover and structure with larger aspen complex.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Pole	6	
Balsam Fir	15	Pole	6	
Northern White Cedar	5	Pole/Log	9	
Black Spruce	45	Log	10	83
White Pine	15	Log/Pole	13	
Red Maple	5	Pole	7	

91	6123 - Lowland Fir	Poletimber Well	2.9	66	81-110	N/A	Small wet stand of spruce-fir. Retain for structural and size diversity.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	5	
Balsam Fir	55	Pole	6	66
Black Spruce	35	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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92 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 11.6 122 111-140 N/A Hillside leading down to chase creek

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	15	Pole	8	
Quaking Aspen	15	Log/Pole	11	
Red Maple	10	Pole	8	
Northern White Cedar	25	Log/Pole	13	122
Balsam Fir	20	Pole/Log	8	
White Pine	15	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling

93 3105 - Mixed Upland Herbaceous Nonstocked 5.3 No Scattered balsam fie and open areas mixed with a low wet ground and a few aspen.

94 4130 - Aspen Poletimber Well 36.7 62 111-140 N/A Stand of quaking aspen with smaller diameter red maple and scattered white pine. Adjacent to Chippewa landing access road. Flat stand with mixed quality timber.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Log	8	
Quaking Aspen	65	Pole/Log/Sap	9	62
White Pine	10	Log	12	
Bigtooth Aspen	4	Log	12	
White Oak	1	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
White Oak	Low	10 - 20 feet	Sapling
Witch Hazel	Medium	5 - 10 feet	Tall Shrub

95 6139 - Mixed Lowland Forest Poletimber Poor 1.8 80 N/A

96 500 - Water Nonstocked 21.4 Unspecified No Manistee River