



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63135

Entry Year 2025

Acreage: 2,067

County Wexford

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Matt Edison

Legal Description:

T24N, R10W, Sections 28 thru 33

Identified Planning Goals:

Forest Management with focus on multiuse objectives of timber, wildlife and ecological concerns. Management will follow practiced silvicultural guidelines and management plan guidelines.

Soil and topography:

Rubicon-Montcalm-Graycalm in uplands and Tawas-Croswell-Lupton in lowlands.

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

Good block of state forest ownership but would be ideal to attempt to purchase all private land within sections 28, 29 and 30; as well as tributaries in sections 31, 32 and 33.

Unique Natural Features:

Great Blue Heron rookery in NW of section 30, Wood Turtle to North of Compartment. Potential for Ram's Head Lady's Slipper and Calypso Orchid.

Archeological, Historical, and Cultural Features:

None Listed.

Special Management Designations or Considerations:

High quality natural growth white pine is found along the river. Because white pine of this quality is not common, it should be encouraged and retained.

Watershed and Fisheries Considerations:

Four tributaries of the Manistee River flow through Compartment 135. They are Soper Creek, Filer Creek, Blind Creek, and Apple Creek, plus smaller tributaries to those creeks. All are Designated Trout Streams with naturally reproducing populations of brook and/or brown trout, and all are on the "Trout Streams Vulnerable to Beaver Damming" list. Apple and Blind Creeks have historically been severely impacted by beaver damming. Therefore, future management of the riparian zone near these creeks should be to manage for tree species other than aspen. (M. Tonello, 8/27/2013).

Wildlife Habitat Considerations:

This compartment is in the Highplains Ecosystem, Grayling Outwash Plains Subsection, ½ is LTA 5211 and ½ is LTA 5111. In LTA 5111, soils are Grayling sand, a deep, excessively drained, acidic soil with low natural fertility. Historically, vegetation was dominated by fire dependent, conifer forest, e.g. jack pine, red pine/white pine, and pine or oak/pine barrens. In LTA 5211, soils are characterized by deep, excessively drained, acidic sands. Historic vegetation included the entire spectrum of conifer dominated forests. Management goals are to maintain cover type diversity across the compartment, structural diversity within stands, and to promote lowland conifers and mast-producing species. Featured species of special interest are bear, deer, woodcock, ruffed grouse, and snowshoe hare. (E. Victory, 8/21/13).

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till and minor glacial outwash sand and gravel and postglacial alluvium and end moraine of coarse-textured till. Glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. A gravel pit is located two miles to the north, but potential is considered to be good. This area lies five miles southeast of the prolific Silurian Niagaran reef trend. There does not appear to be any potential for Niagaran reefs in this area. This area is not currently leased for oil and gas and potential appears to be limited. (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:

Survey will be needed where treatments are along private.

Recreational Facilities and Opportunities:

The Michigan Cycle Conservation Club trail is routed along the county road system in this compartment and is the only designated recreation facility within the compartment. There is heavy use of state lands for hunting, fishing, berry and mushroom picking as well as dispersed camping during those peak times. (T.M.N. 7/10/13)

Fire Protection:

The area has a history of large and small fires over the years. There are numerous 40 acre and smaller parcels of private land scattered within the boundaries of the compartment. These holdings have many unmarked roads leading into private land holdings. A number of these parcels have structural values however which ones and where the values are often change. The most likely probability of an ignition will come from one of these parcels or the abundant recreation in this area. The fuel type's all supports large fire growth during any dry season and there is high potential for property and resource damage should a wildfire occur. (B. Tower, 2013).

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

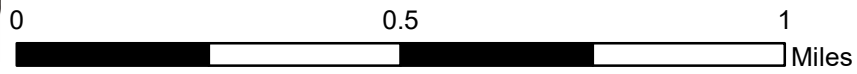
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

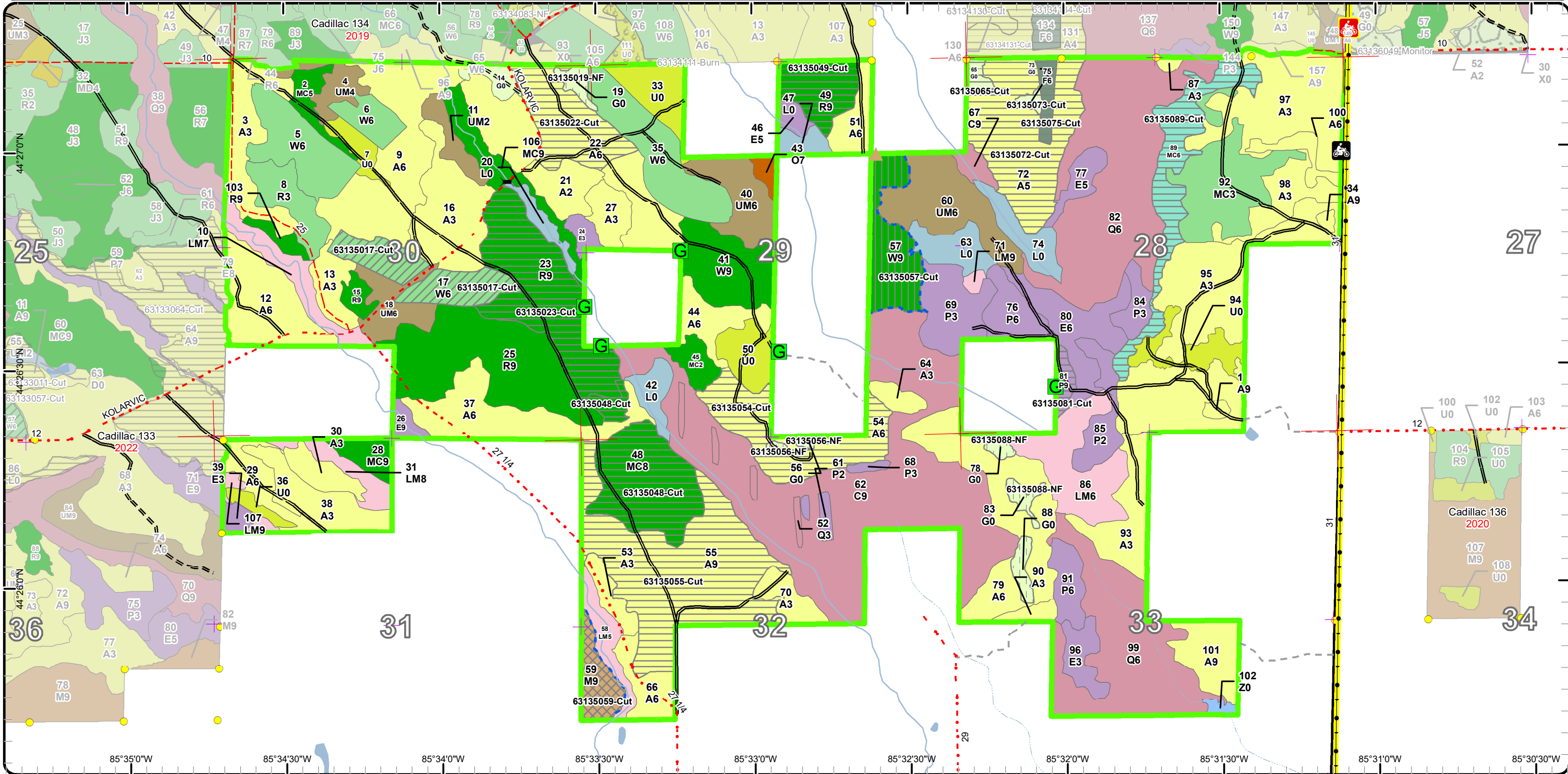
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 135
 T24N, R10W, Sec. 21, 28-33
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2025
 Acres: 2066.5 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 10/19/2023
 Map Phase: Post-Maps

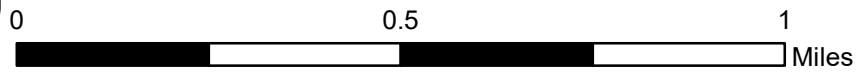


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Motorcycle Trails (SOS License)
- MCCCT Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- Berms
- Gate
- Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 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
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 621 - Floating Aquatic
- 622 - Lowland Shrub

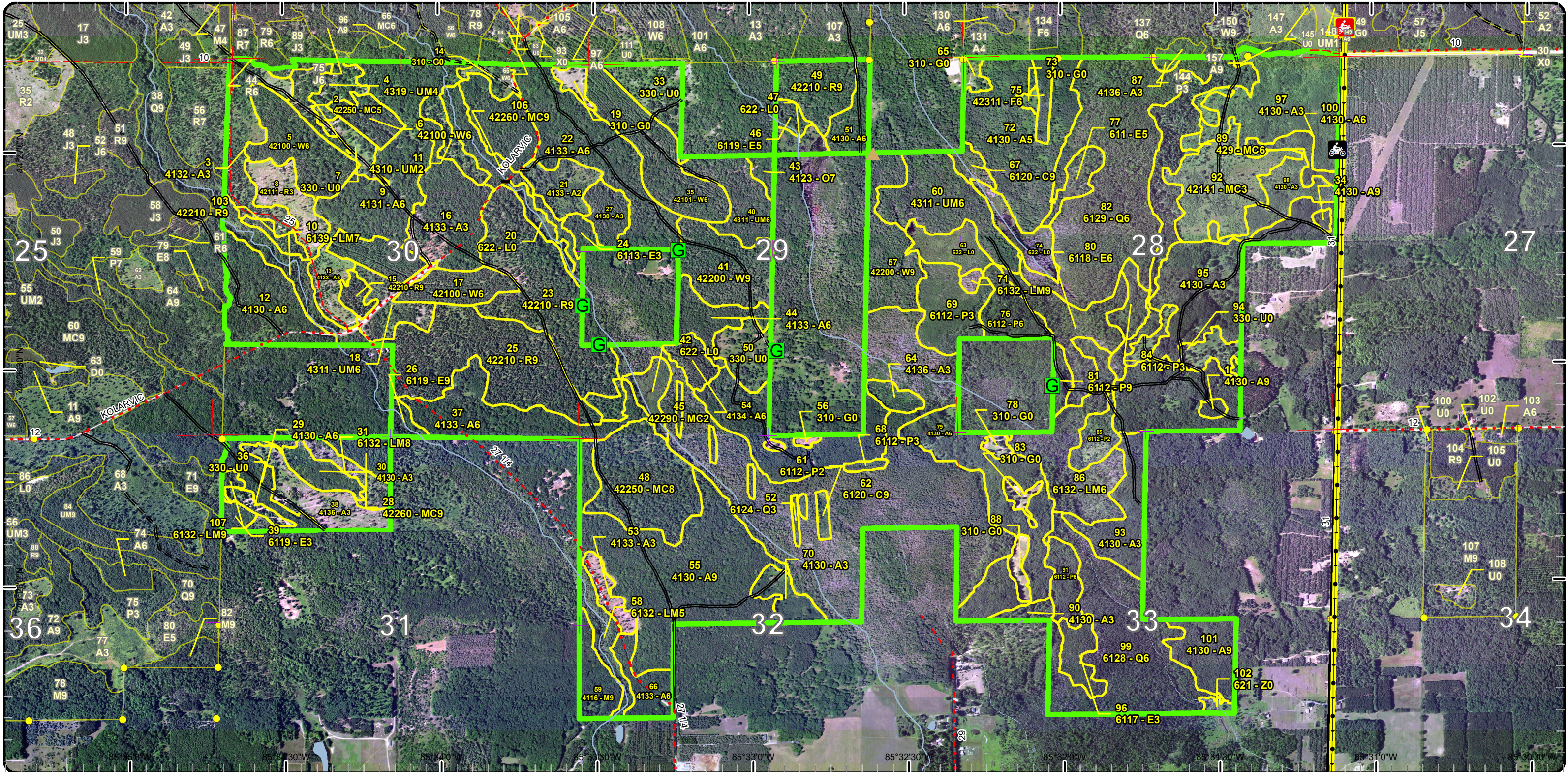


Stand Boundary Map

Compartment: 135
 T24N, R10W, Sec. 21, 28-33
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2025
 Acres: 2066.5 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 10/19/2023
 Map Phase: Post-Maps

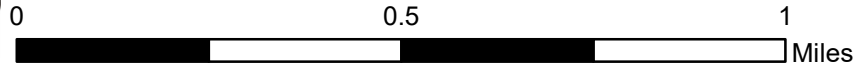


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
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- Motorcycle Trails (SOS License)
- MCCCT Trails
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- ▲ Berms
- G Gate
- ✈ Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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- 613 - Lowland Mixed Forest
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- 621 - Floating Aquatic
- 622 - Lowland Shrub
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines

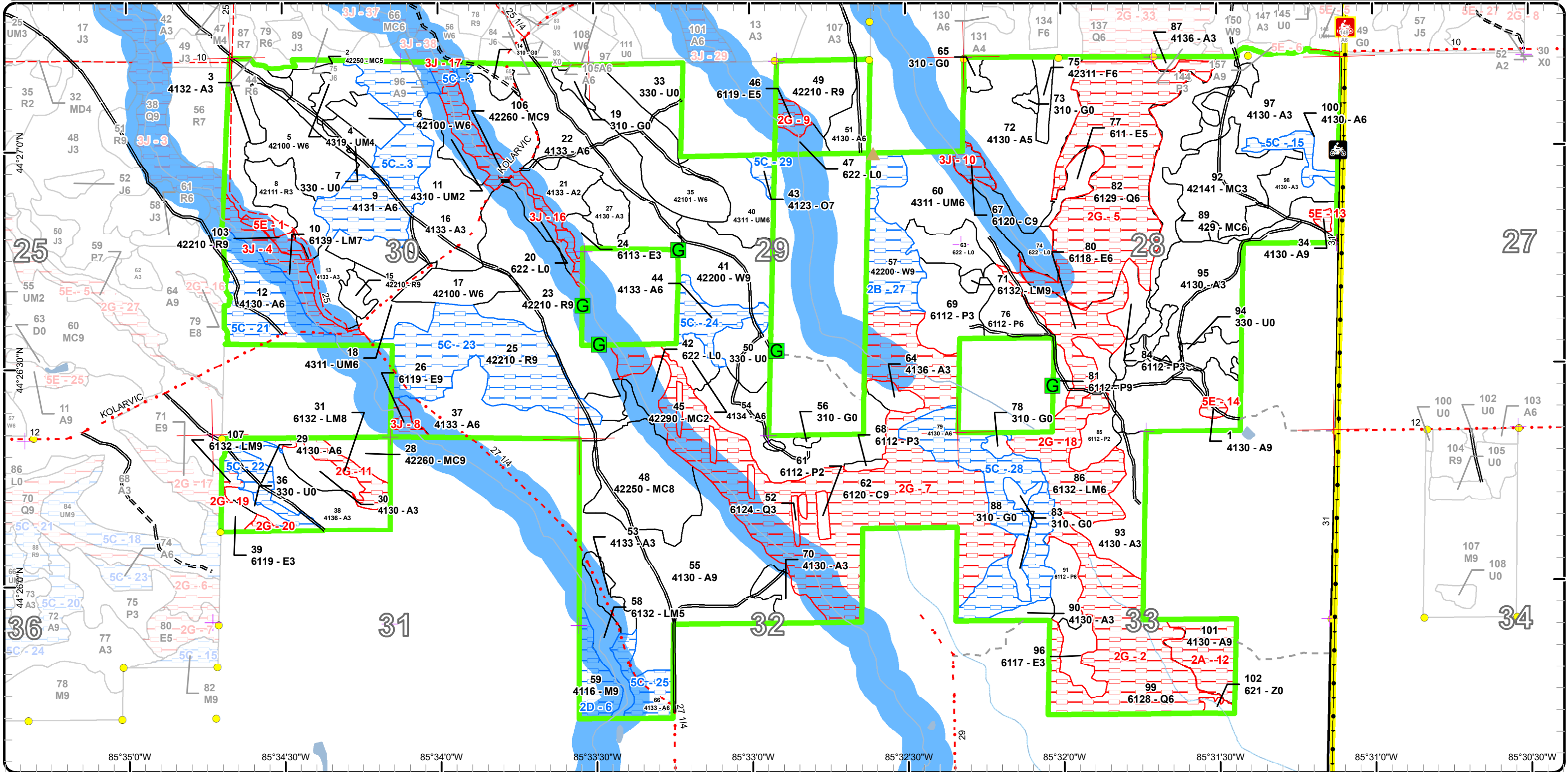


Special Conservation Areas

Compartment: 135
 T24N, R10W, Sec. 21, 28-33
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2025
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- Berms
- Gate
- Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	182	103	29	22	254	207	18	0	0	0	0	0	0	0	0	0	0	814
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	170	5	0	0	0	175
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Lowland Aspen/Balsam Poplar	0	0	0	48	0	24	0	5	0	0	0	0	0	0	0	0	0	0	76
Lowland Conifers	0	0	0	0	0	5	0	0	0	0	0	0	0	168	0	0	0	0	173
Lowland Deciduous	0	4	0	4	8	10	0	0	29	0	4	0	0	0	0	0	0	0	59
Lowland Mixed Forest	0	0	0	0	0	0	0	0	2	16	32	0	3	21	0	0	0	0	74
Lowland Shrub	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Natural Mixed Pines	0	7	0	0	0	0	8	0	69	0	0	0	0	0	0	0	0	0	84
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Oak	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Planted Mixed Pines	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Red Pine	0	16	0	0	0	0	0	0	144	0	0	0	0	0	0	0	0	0	160
Upland Conifers	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	33
Upland Mixed Forest	0	0	0	8	0	68	0	10	0	0	0	0	0	0	0	0	0	0	86
Upland Spruce/Fir	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	97	55	0	0	0	0	0	0	0	0	0	152
Total	122	209	141	89	30	361	215	169	299	16	49	3	3	189	170	5	0	0	2067



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 135
Total Compartment Acres: 2,067

Commercial Harvest - 407
 Harvests with Site Condition - 39
 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	213	0	0	0	0	0	0	0	0	213
Herbaceous Openland	5	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	5	0	0	0	0	0	0	0	0	5
Natural Mixed Pines	45	0	0	0	0	0	0	0	0	45
Northern Hardwood	0	13	0	0	0	0	0	0	0	13
Red Pine	74	0	0	0	0	0	0	0	0	74
Upland Conifers	33	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	6	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	26	27	0	0	0	53
Total	380	13	0	0	26	27	0	0	0	446

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	446	0	0	0	0	0	0	15	0	461
Next Step	0	201	101	0	0	101	507	0	0	909
Total	446	201	101	0	0	101	507	0	15	1370



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:

17	63135017-Cut	26.5	42100 - Planted White Pine	Poletimber Well	60	141- 170	Harvest	Crown Thinning	4210 - Planted White Pine	Even-Aged	No
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Prescription Thin stand to approx. 120 ba.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

19	63135019-NF	3.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
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Prescription Managed Wildlife Opening

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

22	63135022-Cut	30.3	4133 - Aspen, Mixed Pine	Poletimber Well	42	111- 140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area. remove jack pine, aspen, and others. Leave all white pine over 12 inches. Protect white pine regen. as best as possible.

Specs: Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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	63135023-Cut	55.2	42210 - Natural Red Pine	Sawtimber Well	79	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut all trees for red pine planting. Except, leave exclusion areas along edge where oak is heavier if possible for seed source. <u>Specs:</u> Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); <u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Planted RP and volunteers.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
48	63135048-Cut	45.3	42250 - Pine, Oak	Sawtimber Medium	75	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clear-Cut with pocket retention 3-6% of treatment area. Exclude areas of better oak for seed source. Re-plant to red pine. <u>Specs:</u> Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); <u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Planted Red Pine and volunteers.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
49	63135049-Cut	18.9	42210 - Natural Red Pine	Sawtimber Well	70	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Clear-Cut with pocket retention 3-6% of treatment area. Also, leave Red Pine 16" dbh or larger and all White Pine. Leave some scattered oak as well. Protect existing white pine regeneration as much as possible. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
54	63135054-Cut	37.8	4134 - Aspen, Spruce/Fir	Poletimber Well	54	141-170	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clear-Cut with pocket retention 3-6% of treatment area. Leave any white pine over 10 inches. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
55 63135055-Cut	89.9	4130 - Aspen	Sawtimber Well	49	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clear-Cut with pocket retention 3-6% of treatment area. Cut all down to 2", except cut white pine down to 4". Protect white pine regen as best as possible. Also, leave 1-3 large oak per acre where possible. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.</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> Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
56 63135056-NF	1.7	310 - Herbaceous Openland	Nonstocked			Unspecified	NonForestMgt /Grass Planting	3102 - Grass		No
<p><u>Prescription</u> Managed Wildlife Opening</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 /2024</p>										
57 63135057-Cut	26.4	42200 - Natural White Pine	Sawtimber Well	78	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Shelterwood cut by removing aspen, balsam, red maple and others. Leave about 50-60 ba of white pine. Protect as much of existing white pine regeneration as possible. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.</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> Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
65 63135065-Cut	3.1	310 - Herbaceous Openland	Nonstocked			Harvest	Clearcut	3102 - Grass		No
<p><u>Prescription</u> Final harvest all species 2" and greater at DBH. In addition leave all legacy oak trees. Leave no retention due to small size.</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> grass</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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72	63135072-Cut	55.1	4130 - Aspen	Poletimber Medium	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest all species 2" and greater at DBH. In addition leave all legacy oak trees. Leave 3-10 percent retention.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully stocked aspen, maple, and pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

73	63135073-Cut	1.7	310 - Herbaceous Openland	Nonstocked			Harvest	Clearcut	3102 - Grass		No
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Prescription Final harvest all species 2" and greater at DBH. In addition leave all legacy oak trees. No retention due to small size.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable opening.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

75	63135075-Cut	5.5	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	61	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Final harvest all species 2" and greater at DBH. In addition leave all legacy oak trees. No retention due to small size.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to fully stocked spruce, pine, aspen, and maple.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

81	63135081-Cut	4.5	6112 - Lowland Aspen	Sawtimber Well	60	111-140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area. Cut all trees 4" DBH or bigger. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
88 63135088-NF	9.5	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
<p><u>Prescription</u> Managed Wildlife Opening</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 /2024</p>										
89 63135089-Cut	33.0	429 - Mixed Upland Conifers	Poletimber Well	62	141-170	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clear-Cut with pocket retention 3-6% of treatment area. Select cut all species, but leave a good amount (50-60ba where possible) of quality white pine and red pine. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.</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> Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Approved Treatments:

59 63135059-Cut	12.5	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	97	81-110	Harvest	Single Tree Selection	4116 - Mixed N. Hardwood - Aspen	Uneven-Aged	No
<p><u>Prescription</u> Mark hardwoods according to guidelines and final harvest the aspen in east edge of stand. Mark for quality.</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> Only access is through private. Limit Factor. Talk to landowner before setting up sale. . Buffer creek appropriately.</p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 1 /1 /2023</p>										

Total Treatment Acreage Proposed: 460.8

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 135
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				2B	2D	5C	2A	2G	3J	5E
816	615	177		24	Aspen			177	18	0	3	3
174	0	0		174	Cedar					169	5	
25	25	0		0	Herbaceous Openland							
52	52	0		0	Low-Density Trees							
76	76	0		0	Lowland Aspen/Balsam Poplar					0		
172	8	0		165	Lowland Conifers				0	164		
58	25	0		32	Lowland Deciduous					29	4	
74	13	0		61	Lowland Mixed Forest		0			45	16	
43	42	0		0	Lowland Shrub					0	0	
85	69	0		16	Natural Mixed Pines						16	
13	0	13		0	Northern Hardwood		13					
3	0	3		0	Oak			3				
38	38	0		0	Planted Mixed Pines							
160	95	62		4	Red Pine			62				4
33	33	0		0	Upland Conifers					0		
86	86	0		0	Upland Mixed Forest					0	0	
6	6	0		0	Upland Spruce/Fir							
2	2	0		0	Water				0			
152	126	26		0	White Pine	26						
2,067	1,309	281		476	Total Forested Acres	26	13	242	18	408	43	7
	63%	14%		23%	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	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Long term retention from red pine final harvest and replant to east.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 135
Year of Entry: 2025

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	68	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	122	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Only access through private, secure before setting up sale.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	170	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 135
Year of Entry: 2025

8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2A: Adjacent landowner denied access	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Landowners deny access.							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
 Matt Edison : Examiner

Compartment: 135
 Year of Entry: 2025

14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for creek that flows to Manistee.							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
 Matt Edison : Examiner

Compartment: 135
 Year of Entry: 2025

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
 Matt Edison : Examiner

Compartment: 135
 Year of Entry: 2025

25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	2B: Unknown if access through adjacent landowner(s) is possible	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	49	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	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 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
1	4130 - Aspen	Sawtimber Well	1.9	57	111-140	N/A	Harvest with other retention pockets or leave as long term retention. Very nice Aspen. Some starting to drop out.																																																						
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2	42250 - Pine, Oak	Poletimber Medium	7.8	59	51-80	N/A	Stand was cut in 2016, all oak and thinned out red pine were left. Hodgepodge stand which is close to considering the understory the major overtype.																																																						
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Red Pine	60	Pole/Log	8	59	Jack Pine	Medium	< 5 feet	Sapling																																																					
3	4132 - Aspen, Jack Pine	Sapling Well	25.0	17	1-50	N/A	Stand was marked thinned in 2006 with all aspen, maple, and jack also cut. Pine residual over story widely scattered and concentrated in pockets not spread throughout. Aspen, maple and jack pine are regenerating. Not enough pine to consider as primary overstory.																																																						
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4	4319 - Mixed Upland Forest	Poletimber Poor	10.4	65	1-50	N/A	Very open mix of oaks ,red maple, aspen. With jack pine and white pine filling in. Small northern piece of stand was recently final harvested in sale in compartment to north. Came back to jack pine.																																																						
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Red Oak	15	Log	15	105																																																									
5	42100 - Planted White Pine	Poletimber Well	26.9	60	81-110	N/A	JV-2012-Stand was row thinned in 2008, with all aspen, jack pine, and red maple cut that was within reach while cutting rows. Mostly white pine although reds scattered in pockets. Oaks scattered in too. Red pine appears more suitable for site. Plantation failed severely in pockets.																																																						
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6	42100 - Planted White Pine	Poletimber Well	9.6	60	81-110	N/A	BAT-2022- Consider holding, then thin aggressively (shelterwood, down to 60 BA) to create a 2 aged white pine stand. JV-2012-Stand was row thinned in 2008, with all aspen, jack pine, and red maple cut that was within reach while cutting rows. A little better quality than adjacent pine. All white pine, with fire break through middle.																																																						
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7	330 - Low-Density Trees	Nonstocked	6.5			No	Scattered cherry and maple. A few pines as well.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
8	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	15.9	6	Immature	N/A	2015- Red pine was final harvested and chipped in 2016 winter. Site has FTP out for trenching and planting red pine. Trenched in 2016. Planted in 2017. Regen check done in fall 2018. Aspen, maple completion accepted on this small site. Allow small stand to be mixed pine, aspen and maple.																																																																								
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9	4131 - Aspen, Oak	Poletimber Well	52.9	51	81-110	N/A	Allow aspen another ten years and final harvest. JV-2013-Complex of log oaks, with pole aspen and red maple filling in between. Scattered pockets of older aspen clones scattered in stand as well. Semi open stand throughout.																																																																								
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White Pine	5	Pole	7																																																																												
10	6139 - Mixed Lowland Forest	Sawtimber Poor	16.0	85	81-110	N/A	Mixed lowland valley complex with large flowing creek through middle. Mostly alder on flood plane with mix pine and aspen,oak, and maple on slopes. Some cedar down by creek. Not suitable for timber management.																																																																								
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11	4310 - Pine, Oak Mix	Sapling Medium	7.9	24	Immature	N/A	Stand was final harvested in 1999. All oak was left. Jack pine, red maple, white pine and aspen regenerated. Oaks of variable diameters left. Semi open stand.																																																																								
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12	4130 - Aspen	Poletimber Well	32.3	51	51-80	N/A	Variable pole aspen stand with a minor mix of scattered pine and oak. Mostly upland although a little lowland ground in portions. Variable diameters although mostly pole. MCCT trail in stand. Stand semi open in pockets as well. Hold for next YOE. Allow stand to reach log size.																																																		
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13	4133 - Aspen, Mixed Pine	Sapling Well	10.6	7	Immature	N/A	Aspen stand was final harvested in 2016 winter. All pine was left. Scattered log red pine as well as scattered advanced white pine saplings. Will be good mix.																																																		
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14	310 - Herbaceous Openland	Nonstocked	5.2			No																																																			
15	42210 - Natural Red Pine	Sawtimber Well	4.5	75	51-80	N/A	Stand was marked thinned in 2006 with all aspen, maple, and jack also cut. Mostly log red pine with good spacing. Little to no understory. May have been planted? Hard to tell at this point.																																																		
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16	4133 - Aspen, Mixed Pine	Sapling Well	52.2	8	Immature	N/A	Cut in 2016, 10 BA of log pine was left, as well as advanced pine understory.																																																		
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17	42100 - Planted White Pine	Poletimber Well	26.5	60	141-170	N/A	Stand was third row thinned in 2008, with all aspen, jack pine, and red maple cut. Mostly white pine although a little red pine mixed in.																																																		
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18	4311 - Pine, Aspen Mix	Poletimber Well	14.6	41	81-110	N/A	Semi open stand of stunted aspen, jack pine and white pine. Some of the aspen has hypoxlyn canker.																																																						
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19	310 - Herbaceous Openland	Nonstocked	3.9		Unspecified	Managed Opening																																																							
20	622 - Lowland Shrub	Nonstocked	5.4			No	Creek surrounded by alder.																																																						
21	4133 - Aspen, Mixed Pine	Sapling Medium	13.2	24	Immature	N/A	Stand was final harvested in 1999. All oak was left. Mostly aspen regenerated with white and jack mixed in. Few scattered oaks are mostly poles. Some small opening in stand.																																																						
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22	4133 - Aspen, Mixed Pine	Poletimber Well	48.5	42	111-140	N/A	Aspen complex with scattered pine and log oaks throughout. Two tracks throughout as well as underground electric lines. Consider harvesting north half this entry. There is mature jack pine in north and some dying. As you move south aspen is generally still immature.																																																						
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23	42210 - Natural Red Pine	Sawtimber Well	55.2	79	51-80	N/A	Stand was harvest back in 2006. Marked to cut job, with all aspen, jack pine and red maple being spec cut. Red pine and oak overstory, some white pine as well. Variable understory of white pine and some aspen and maple sprout from last cut. Appears as natural stand. Variable diameters in pines.																																																						
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24	6113 - Lowland Maple	Sapling Well	4.1	8	Immature	N/A	Lowland hardwood mostly red maple with scattered legacy red and white pine. Hummucky ground, with creek on west border. Stand was final harvested in fall 2016 all pine was left. Short wood operation.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
25	42210 - Natural Red Pine	Sawtimber Well	61.9	79	51-80	N/A	Stand was harvest back in 2006. Marked to cut job, with all aspen, jack pine and red maple being spec cut. Mostly log red pine, which appears natural. Some variable diameters. Limited regen except scattered aspen and red maple sprouts. Small percentage of white pine and scattered oaks in overstory as well. Final harvest next YOE. Replant red pine at that time.																																																	
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26	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	4.0	99	51-80	N/A	Nice lowland hardwood with some conifer. Creek running through middle of stand. Stand down the small bluff. Nice lowland hardwood stand but too close to creek for management.																																																	
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27	4130 - Aspen	Sapling Well	9.8	8	1-50	N/A	Aspen and mixed deciduous regeneration with scattered mature mixed pine.																																																	
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28	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	8.1	75	1-50	N/A	Previous Inventory 2015- Mixed variable diameters pine stand with aspen and red maple filling in. Two aged stand. Hold to allow stand to mature as a whole. Private to east was just cut. Only access may be through private .																																																	
29	4130 - Aspen	Poletimber Well	12.4	54	141-170	N/A	Aspen mixed with some white pine. Hold for next YOE. Still needs time to mature to more of a log stand.																																																	
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30	4130 - Aspen	Sapling Well	9.1	21	Immature	N/A	Stand was final harvested in 2002 as "Kolarvic Cedar" sale. Came back well to aspen.																																																	
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31	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	9.6	120	1-50	N/A	2015- Mixed lowland cedar stand with has very significant blowdown present in stand. Appears to be a more recent event that caused all the blowdown. Possibly as a result of cut to west. Mature white pine and hemlock present in stand as well. Super canopy white pine scattered. Not suitable for management.																																													
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33	330 - Low-Density Trees	Nonstocked	15.5			No	Widely scattered red maple and oaks. Some scattered pines as well. May fill in a little with time to become forested.																																													
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34	4130 - Aspen	Sawtimber Well	1.3	57	111-140	N/A	Pocket Retention.																																													
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35	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	34.1	60	51-80	N/A	Still open to sunlight. Hold another decade.																																													
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36	330 - Low-Density Trees	Nonstocked	3.8		Unspecified	No																																														
37	4133 - Aspen, Mixed Pine	Poletimber Well	35.5	44	81-110	N/A	Stand can hold and check in 10 years.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
38	4136 - Aspen, Mixed Conifer	Sapling Well	20.2	8	1-50	N/A	Scattered log white pine stand with variable aspen and red maple filling in the gaps. Variable diameters, but mostly log size overall. Hummocky lower ground in small pocket. Small cedar pocket in north portion of stand. STAND was final harvested in 2016, with 10 BA of green ringed white pine left. All cedar and hemlock were left.	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern White Cedar		5	Pole	7				
Hemlock		2	Pole	6				
Red Maple		30	Sapling	1	8			
Bigtooth Aspen		48	Sapling	1	8			
White Pine		15	Log	12	79			
39	6119 - Mixed Lowland Deciduous Forest	Sapling Well	3.8	23	Immature	N/A	Stand was final harvested in 2000 by inmate crew. Scattered hemlock were left. Aspen and mixed lowland hardwood. A lot of downed timber from last harvest.	
Canopy Species		% Cover	Size Class	DBH	Age			
Hemlock		4	Pole	7				
White Pine		6	Sapling	2				
Red Maple		30	Sapling	2	23			
Quaking Aspen		30	Sapling	2	23			
Paper Birch		30	Sapling	2	23			
40	4311 - Pine, Aspen Mix	Poletimber Well	19.8	45	111-140	N/A	Good looking stand, just needs some time. Nice WP regen.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		9	Pole	8				
Bigtooth Aspen		50	Pole	6	45			
Red Oak		7	Log/Pole	12				
Red Pine		8	Log/Pole	10				
White Pine		26	Pole/Log	8				
		Sub-Canopy Species	Density	Avg. Height	Size	-2015 Aspen stand mixed with variable diameter mixed pine. Heaviest to white pine. Allow aspen to mature.		
		White Pine	Medium	Variable	Sapling			
41	42200 - Natural White Pine	Sawtimber Well	28.5	79	51-80	N/A	Still open enough at this time. Good amount of small WP regeneration coming in. Check in 10 to remove overstory or thin.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		60	Log/Pole	12	79			
Red Pine		30	Log	12				
Red Oak		10	Log	14				
		Sub-Canopy Species	Density	Avg. Height	Size	2015- Stand was marked thinned in 2008 with all aspen, maple, and jack also cut. Appears to be natural mix of white and red pine. Variable diameter although log size overall. Oaks scattered.		
		Red Maple	Medium	5 - 10 feet	Sapling			
		Bigtooth Aspen	Low	5 - 10 feet	Sapling			
		White Pine	Low	Variable	Sapling			
42	622 - Lowland Shrub	Nonstocked	8.1			No		
43	4123 - Red Oak	Sawtimber Poor	3.4	105	1-50	N/A	Check in 10 years for Aspen growth.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		100	XLog	18	105			
		Sub-Canopy Species	Density	Avg. Height	Size	2015- Log Oak scattered with small pole-sap aspen filling in. Some white pine in understory as well. Allow aspen to mature.		
		White Pine	Medium	5 - 10 feet	Sapling			
		Bigtooth Aspen	Full	>20 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
44	4133 - Aspen, Mixed Pine	Poletimber Well	14.3	48	51-80	N/A	Aspen stand with mixed pine throughout, mostly white pine. Log oaks in stand as well. Very similar stands throughout this compartment. Allow aspen to mature.																																				
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45	42290 - Natural Mixed Pine	Sapling Medium	7.4	7	Immature	N/A	Stand has regenerated to mixed pine with some scattered cherry. Good looking WP.2015- Stand was final harvested in 2016. Short wood operation. A few red pine were left as retention. Not planted to red pine as too small to red plant.																																				
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46	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	3.9	78	1-50	N/A	Small flood plain hardwood stand with some aspen, thick serviceberry-other lowland shrugs understory. Very low stocking and quality. Appears seasonally flooded. Basswood dieing by time its a log. Creek borders southern end of stand. Poor ground for growing trees.																																				
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47	622 - Lowland Shrub	Nonstocked	5.4			No	Lowland shrub complex with some standing water and a few higher spots dry enough to stand on.																																				
48	42250 - Pine, Oak	Sawtimber Medium	45.3	75	1-50	N/A	Stand was harvest back in 2006. Marked to cut job, with all aspen, jack pine and red maple being spec cut. Likely planted pine although natural stand for management purpose. Red pine and oak overstory with aspen and maple regenerated from last cut.																																				
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49	42210 - Natural Red Pine	Sawtimber Well	18.9	70	81-110	N/A	Ready for final harvest. 2015- Stand was marked thinned in 2008 with all aspen, maple, and jack also cut. Mostly red pine with white pine with oak mixed in, appears natural. Variable diameters and stocking. White pine, aspen and maple in understory.																																				
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50	330 - Low-Density Trees	Nonstocked	13.3			No	Scattered oaks, white pine and a few maple. Very slowly filling in.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
51	4130 - Aspen	Poletimber Well	11.1	42	81-110	N/A	Still generally small Aspen. 2015- Cut in 1980, with all oak left. Aspen came back well with scattered oaks and some white pine. White pine in subcanopy as well.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		10	Log	17		White Pine		Medium	Variable	Sapling
Bigtooth Aspen		80	Pole/Sapling	6	42					
White Pine		10	Pole/Log	9						
52	6124 - Lowland Spruce-Fir	Sapling Well	4.6	47		N/A	2015- Cedar Strip cuts performed over the course of two winters of 1976 and 1977, inmate crew from Camp Pugsley. Came back thick to balsam-spruce, mixed with lowland hardwood. Still sapling size, no cedar regen observed.			
53	4133 - Aspen, Mixed Pine	Sapling Well	7.1	8	Immature	N/A	Scattered log white and red pine with aspen and oak filling in between. Aspen variable but mostly poles.... Stand was final harvest in FEB 2016. 10 to 20 BA of Log Red and White pine was left. (Green Ringed) Short wood operation.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Oak		5	Sapling	1	8					
White Pine		5	Log	12	85					
Red Pine		10	Log	13						
White Pine		10	Sapling	1	8					
Bigtooth Aspen		70	Sapling	1	8					
54	4134 - Aspen, Spruce/Fir	Poletimber Well	37.9	54	141-170	N/A	Aspen stand with mix of fir and white pine on southern portion. Lots of WP regen throughout. Private to north. Final Harvest.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		2	Pole	6						
Balsam Fir		20	Pole	7						
Bigtooth Aspen		70	Pole	9	54					
Red Pine		2	Log	12						
White Pine		6	Pole/Log	9						
55	4130 - Aspen	Sawtimber Well	89.9	49	111-140	N/A	Good quality aspen complex with mix of oak and mixed pine. Variable diameters with some older aspen clones mixed in stand. Small white planted in north end. Older clones to scattered to be separate stand. Good amount of white pine regen. throughout stand.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		4	Log/Pole	10						
Red Maple		6	Pole	7						
Bigtooth Aspen		67	Log/Pole	10	49					
Balsam Fir		4	Pole	7						
Red Oak		10	Log	15						
White Pine		9	Pole	7						
56	310 - Herbaceous Openland	Nonstocked	1.7		Unspecified	Managed Opening	Can the eastern portion be mapped to include the southern lobe?			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
57	42200 - Natural White Pine	Sawtimber Well	26.4	78	81-110	N/A	Treat with shelterwood to help promote understory and open up space for better quality pine. Will require access through private, as well as possible stream crossing. 2015- Variable natural white pine stand with mix of aspen, red pine, red maple. Some pockets of mostly pole white pine, but overall logs. Some pockets are almost solid pine, with more open aspen pockets too. Large legacy white pine in stand. Low wet pockets in stand, but mostly upland.																																																																								
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58	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	11.1	120	111-140	N/A	There is a flat area at narrows with potential for stream crossing to adjacent stand to harvest. 2015- Mix of lowland valley cedar and hemlock which buffers the creek. Some of the river flats are more open with tag alder. Not suitable for management																																																																								
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59	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	12.6	97	81-110	N/A	Good quality northern hardwood with a strip of log aspen on far east egde. No regen on forest floor, stand appears to have been thinned over twenty years ago. Big good quality log oak scattered in stand. Only access is through private. Mark hardwoods according to guidelines and final harvest the aspen. Buffer creek appropriately. Talk to landowner before setting up sale.																																																																								
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60	4311 - Pine, Aspen Mix	Poletimber Well	33.8	42	81-110	N/A	Check for harvest next entry. Wet in Spring '23. 2015- Cut in 1980 with all pine left. Aspen dominated stand with significant mix of log red and white pine scattered in stand. Balsam mixed in around edges. Pockets of almost solid pine in stand. Wet pocket in northwest portion of stand and in southern tip. Allow aspen time to mature. Avoid wet pockets and likely harvest in dry time or hard winter.																																																																								
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61	6112 - Lowland Aspen	Sapling Medium	3.3	21	1-50	N/A	Cedar habitat cut performed commercially in 2002. Same back semi open to aspen, lowland hardwood and balsam fir.																																																																								



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62	6120 - Lowland Cedar	Sawtimber Well	169.5	130	111-140	N/A	Mixed lowland cedar complex. Variable diameters with tamarack, fir, spruce and lowland hardwood mixed in. Creek in stand along with various habitat strip cuts performed over the decades. Legacy white pine in stand as well. Highly variable with blowdown pockets to areas of pure standing log cedar. Too wet and sensitive for large scale management.																																													
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63	622 - Lowland Shrub	Nonstocked	11.9			No																																														
64	4136 - Aspen, Mixed Conifer	Sapling Well	5.2	24	Immature	N/A	Stand looks good. Aspen growing nicely. 2015- Final Harvest in 1999. Came back well to aspen, birch, red maple and fir. Residual cedar was left scattered.																																													
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65	310 - Herbaceous Openland	Nonstocked	3.1			No																																														
66	4133 - Aspen, Mixed Pine	Poletimber Well	12.2	55	81-110	N/A	Pole aspen with mix of oak and white pine. County road goes through stand. Small grassy opening in stand as well, Good future spot for landing. Creek to west edge of stand. Will hold for future YOE.																																													
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67	6120 - Lowland Cedar	Sawtimber Well	4.7	140	141-170	N/A	Lowland cedar and hemlock mix with creek running through stand. Some red maple as well. Good quality cedar and hemlock. Too wet and close to stream to manage.																																													
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68	6112 - Lowland Aspen	Sapling Well	1.7	26	Immature	N/A	Habitat cut final harvested commercially in 1997. Came back thick to mostly aspen with balsam fir, tamarack, tag alder and red maple.																																													
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69	6112 - Lowland Aspen	Sapling Well	21.8	23	Immature	N/A	Attempted to do commercially in 2000, but never happened. Habitat cut in 2002. Came back to lowland mix of aspen, balsam, red maple, paper birch, and tag alder.																																													
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70	4130 - Aspen	Sapling Well	9.9	17	Immature	N/A	Stand was final harvested in 2006, all oak was left. Regenerated well back to aspen. Widely scattered oak left.																																													
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71	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	1.7	75	81-110	N/A	Small two acre pocket of mature red maple and cedar.																																													
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72	4130 - Aspen	Poletimber Medium	55.1	48	81-110	N/A	Final Harvested in 1975. Came back to semi open aspen and fir mix. Little to no understory. Poor quality stunted aspen. Old burned pine stumps in stand. Ground may have burned hard and soils suffered? Consider final harvest and planting red pine next YOE. Allow a little more diameter growth .																																													
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73	310 - Herbaceous Openland	Nonstocked	1.7			No																																														
74	622 - Lowland Shrub	Nonstocked	11.7			No																																														



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75	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	5.5	61	51-80	N/A	Smaller pole sized plantation. Check in 10 years. Access through private. 2015- White Spruce planted in 1962. Densely planted. Some aspen and oak mixed in.																																																																								
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76	6112 - Lowland Aspen	Poletimber Well	13.4	43	81-110	N/A	Stand was final harvested in 1980. All oak and white pine were left. Eagle nest in large white pine in stand. Aspen mostly with some fir and lowland hardwood mixed in. Small portion of northwest has mature red maple excluded from harvest. Lowland portions but mostly upland ground.																																																																								
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77	611 - Lowland Deciduous Forest	Poletimber Medium	7.5	35	51-80	N/A	Sparse lowland hardwood and aspen with balsam filling in. Very low ground. Some log red maple but mostly pole size.																																																																								
78	310 - Herbaceous Openland	Nonstocked	2.2		Unspecified	Managed Opening																																																																									
79	4130 - Aspen	Poletimber Well	49.2	50	111-140	N/A	Final Harvested in 1973. Mostly aspen with white pine and red maple mixed in. Mostly upland although edges have more lowland character. North end of stand is semi open. Managed wildlife openings within stand. Protect in future.																																																																								
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80	6118 - Lowland Deciduous with Cedar	Poletimber Well	24.8	78	51-80	N/A	Was attempted to be habitat cut in 1980 but was unsuccessful. Mixed aspen and lowland hardwood with cedar-fir mixed in. Creek in stand. Fir understory. Variable stand with pure cedar pockets to low quality lowland hardwood. Very wet ground. Little open to south end of stand. Too wet for management. Too low of volume. Likely never reach log size overall as a result of wet ground.																																																																								
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81	6112 - Lowland Aspen	Sawtimber Well	4.5	60	111-140	N/A	Small strip of mature aspen with private to west. Balsam fir mixed in. Lowland ground but not too wet to harvest in. Harvest this entry combined with stand 89. Too small for pocket retention.																																																																																	
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<p>2015- Consider final harvest. Will need to be lumped in with something close</p>																																																																																								
82	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	99.4	120	81-110	N/A	Large lowland complex dominated by cedar and spruce . Variable stand with pockets of blowdown to pockets of almost pure cedar. Other pockets are pure black spruce bog type. Aspen, red maple,white spruce, and paper birch are scattered throughout. Balsam understory in pockets otherwise limited understory.																																																																																	
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83	310 - Herbaceous Openland	Nonstocked	3.2		Unspecified	Managed Opening																																																																																		
84	6112 - Lowland Aspen	Sapling Well	7.2	22	Immature	N/A	2015-Stand was final harvested in 2001. Not all of sale was able to be cut as a result of wet conditions, this stand represents all that was able to be cut commercially. Came back to mostly aspen with balsam and lowland hardwood mixed in. Some cedar and spruce was left in north portion. Appears northern portion was cut years earlier as well.																																																																																	
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85	6112 - Lowland Aspen	Sapling Medium	13.5	23	Immature	N/A	Stand was final harvested in 2000. Lowland hummucky ground, regenerated to lowland aspen with lowland hardwood and balsam. Open in spots. Some cedar south of road. Lots of windthrow.																																																																																	
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86	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	32.0	95	51-80	N/A	Lowland hardwood mixed with cedar-hemlock . Scattered legacy white pine. Creek in stand. Steep bluff to northwest border. Wet hodgepodge stand. Some log size hardwood in stand. Too wet for management, concerns with Creek BMP's as well.																																															
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87	4136 - Aspen, Mixed Conifer	Sapling Well	1.4	25	Immature	N/A	Habitat cut done in 1998 by Traverse City Soil Conservation District. Came back thick to aspen. Couple legacy white pine left. Goes into compartment to north.																																															
88	310 - Herbaceous Openland	Nonstocked	4.1		Unspecified	Managed Opening																																																
89	429 - Mixed Upland Conifers	Poletimber Well	33.0	62	141-170	N/A	Stand was final harvested in early 1960's. Transition zone between the aspen and the swamp. Hodgepodge of aspen, white pine, spruce, fir and red maple. Upland ground for the most part. Western edge directly borders swamp. Patch of log red pine in southern tip of stand. Harvest this entry leaving good amount of white pine and red pine.																																															
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90	4130 - Aspen	Sapling Well	4.0	13	Immature	N/A	Trespass on State Land, from private timber sale to south. Judging from inventory stand was cut in 2010. Aspen regenerated from cut. Maple was left during cut.																																															
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91	6112 - Lowland Aspen	Poletimber Well	10.6	42	81-110	N/A	Habitat cut performed in 1980. Regenerated to a mix of aspen and balsam fir. Mix of sapling and small pole size. Very thick.																																															
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92	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	37.6	14	Immature	N/A	A good amount of planted red pine is thriving, 6-8' tall scattered throughout, especially in north part of stand. Aspen and JP doing well. 2015 -Stand was final harvested in 2008, with all cherry and oak left. Shortwood operation. Came back to aspen and jack pine and was trench and planted to red pine as well. Time will tell how much red pine survives vs the aspen and jack pine. Stand was trenched in 2010 and planted in 2011.																														
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93	4130 - Aspen	Sapling Well	22.3	34	111-140	N/A	Aspen with some fir mixed in. No TCR record? Private appears to be same age aspen.																														
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94	330 - Low-Density Trees	Nonstocked	12.6	0		No																															
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95	4130 - Aspen	Sapling Well	82.4	5	Immature	N/A	Aspen regeneration with white pine overstory in the East, and a narrow strip of low density Cedar along a drainage. 2015- Stand was final harvested in 2017 and 2018. North end was cut in 2017 and south portion was cut in 2018. Short wood operation all red pine/cedar was left along with retention island marked with site conditions.																														
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96	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	9.6	44	81-110	N/A	Lowland cut peromed in 1979. Came back to aspen, lowland hardwood and some lowland conifer. Previous inventory notes some cedar regen in eastern border of cut. Growing very slowly. Still sapling size mostly.																														
97	4130 - Aspen	Sapling Well	48.8	16	Immature	N/A	Stand was final harvested in 2007, with all cherry and oak left. Tree length operation. This unit was cut first and aspen spouted back well so it was decided not to be planted. Jack pine seedlings under aspen sprouts.																														
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98	4130 - Aspen	Sapling Well	15.7	15	Immature	N/A	Stand was final harvested in 2008, with all cherry and oak left. Aspen has sprouted back well, with some jack pine seedlings starting to take hold.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
99	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	68.3	120	111-140	N/A	Lowland complex with creek running through stand. Mix of lowland conifer with balsam, hemlock, tamarack cedar and fir. Some lowland hardwood scattered.																																																					
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100	4130 - Aspen	Poletimber Well	6.4	54	81-110	N/A	Small strip of aspen left as retention from final harvests performed last YOY. Leave as retention pocket for adjacent harvest at this time.																																																					
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101	4130 - Aspen	Sawtimber Well	18.4	60	111-140	N/A	Stand was manually cut by prison crew in 1971. Log size aspen with some balsam in understory. Lowland a little on west border. Access denied in past.																																																					
102	621 - Floating Aquatic	Nonstocked	1.9		Unspecified	No																																																						
103	42210 - Natural Red Pine	Sawtimber Well	3.9	79	51-80	N/A	Looks natural, no planting records found. Some variable diameters. Aspen and red maple and WP in understory. This small portion was left as long term retention for stand 8.																																																					
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106	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	15.9	75	51-80	N/A	Mixed white, red and jack pine stand with red maple, oak and aspen filling in the gaps in the pine. Variable stand with thick white pine understory in spots. Creek flows through middle of stand. Timber left along creek buffer.																																																					
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107	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	3.2	115	81-110	N/A	Lowland stand of cedar, hemlock; along with lowland hardwood. Scattered super canopy white pine. Heavy natural blowdown in pockets.																																																					