



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63131

Entry Year 2017

Acreage: 2,271

County Wexford

Management Area: Manistee River Valley

Revision Date: 2015-06-12

Stand Examiner: Jim Malloy

Legal Description:

T24N R11W, Sections 10, 11, 14, 15, 22, 23, 27

Identified Planning Goals:

Vegetation management in the Manistee River Valley management area 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. 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:

Level to slightly rolling topography throughout the Compartment, with steep ravines along Anderson creek south of 4 rd, and a steep well defined bluff above the Manistee river.

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

Sections 10 and 11 are a patchwork of state forest and private land. The private lands have are a mixture of forested and non-forested land, with some fields and Christmas trees. Sections 14, 22, 23, and 27 are solid state ownership.

Unique Natural Features:

Wood turtle, Blanding's turtle (*Emys blandingii*, state special concern), and eastern massasauga (*Sistrurus catenatus catenatus*, state special concern) could occur in stands of swamp conifer and swamp hardwoods associated with the Manistee River and Anderson Creek. Great blue heron rookeries could occur in the swamp hardwood, swamp conifer and swamp hardwood habitat. A great blue heron rookery is known from southeast of the compartment. Bald eagle (*Haliaeetus leucocephalus*, state threatened, federally threatened) and osprey (*Pandion haliaetus*, state threatened) could potentially occur within the compartment in upland conifer and lowland conifer if suitable nesting trees/snags are available. Eastern box turtle (*Terrapene carolina carolina*, state special concern) could occur throughout the compartment. Red-shouldered hawk (*Buteo lineatus*, state threatened) and northern goshawk (*Accipiter gentilis*, state special concern) could occur in this compartment in northern hardwoods, oak, mature aspen, swamp hardwoods (red-shouldered hawk), swamp conifer (red-shouldered hawk), and pine stands (goshawk, including plantations). When marking prescribed stands for timber sale, please be observant for stick nests and territorial hawks or goshawks.

Limestone oak fern (*Gymnocarpium robertianum*, state threatened), round-leaved orchid (*Amerorchis rotundifolia*, state endangered), ram's head lady's-slipper (*Cypripedium arietinum*, state special concern), and calypso orchid (*Calypso bulbosa*, state threatened) could potentially occur within the cedar swamp in the northwest of the compartment. The slopes above of the Manistee River harbor potential for ginseng

Archeological, Historical, and Cultural Features:

Prehistoric camps and earthwork are in the area. The Indian trail from the Cadillac area to Grand Traverse Bay is also in the vicinity.

Special Management Designations or Considerations:

The Manistee River which serves as the southern border of this compartment. It is managed under a MOU as a natural river and the restrictions which go along with that designation are applied to all treatments. Anderson Creek which is a tributary to the Manistee river runs N/S through the compartment also.

Watershed and Fisheries Considerations:

Anderson Creek flows south through this compartment, while the mainstream of the Manistee is the south boundary of the compartment. While the state natural river designation ends at the Missaukee/Wexford County line, Fisheries, Forest

Management, and Wildlife Division entered into an agreement to adopt and utilize the Upper Manistee River state natural river zoning ordinance. Anderson Creek, a designated trout stream, has a long history of beaver activity, which has had an adverse impact on trout populations. On Anderson Creek the vegetative buffer would be 100 feet for slopes 0-10%, 115 feet for slopes 11-20%, 135 feet for slopes 21-32%, and 155 feet for slopes 33+%, unless one of the eight exceptions are met. The vegetative buffer on the mainstream is 175 feet, again unless the proposed treatment met one of the exceptions (page 41 of the Upper Manistee River Natural River Plan).

Wildlife Habitat Considerations:

The Manistee River corridor and associated tributaries are valuable wildlife areas offering a good mixture of aspen, lowland hardwoods, upland hardwoods, mixed fruiting shrubs, and conifer cover providing valuable habitats for many wildlife species. These areas are heavily used by wintering deer. Featured species of special interest include deer, bear, woodcock, ruffed grouse and snowshoe hare. Timber sale specifications to benefit wildlife (where applicable) will include brush pile creation along lowland edges, protection of mast-bearing wildlife shrubs and ironwood, protection of standing dead snags, and creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts. (E. Victory 6/2015)

Mineral Resource and Development Concerns and/or Restrictions

Sections 10, 11, 14, 15, 22, & 23, T24N R11W, Wexford County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have an economic use. There are some overgrown sand and gravel pits in the area, and potential appears to be good. This area lies south 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 exploration, but active leases are located to the west.

Vehicle Access:

This compartment contains a good system of both county maintained roads and state owned two-tracks. Much of the area is easily accessible by vehicle through the existing road system, with additional trails leading to popular camping spots along the Manistee River. No new roads should be created within the compartment and any roads opened for logging access should be reclosed following harvest activities.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

The North Country National Scenic Trail (NCNST) runs along the river bluff in Section 22 before crossing a foot bridge on Anderson Creek. From this point the NCNST follows the Manistee River edge into Section 23, before climbing back up the river bluff into Section 14 and exiting the compartment boundary. Trail protection specifications should be included in any timber sale potentially impacting this national trail. Specifically, appropriate measures identified in DNR Policy & Procedures "32.22XX" (Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails) should be taken into consideration when setting up timber sales within this compartment. Scenic vistas are numerous along the river bluff that traverses sections 22 and 23. There are numerous opportunities for dispersed camping, canoeing, hunting, and fishing within this compartment. (T.M.N. 12/17/14)

Fire Protection:

Within this compartment there are numerous forest 2 tracks allowing good access to the compartment. Dispersed camping and recreationalists use this area causing a concern for abandon campfires. Access to the river lowland is very limited.

Additional Compartment Information:

The following reports from the Inventory are attached:

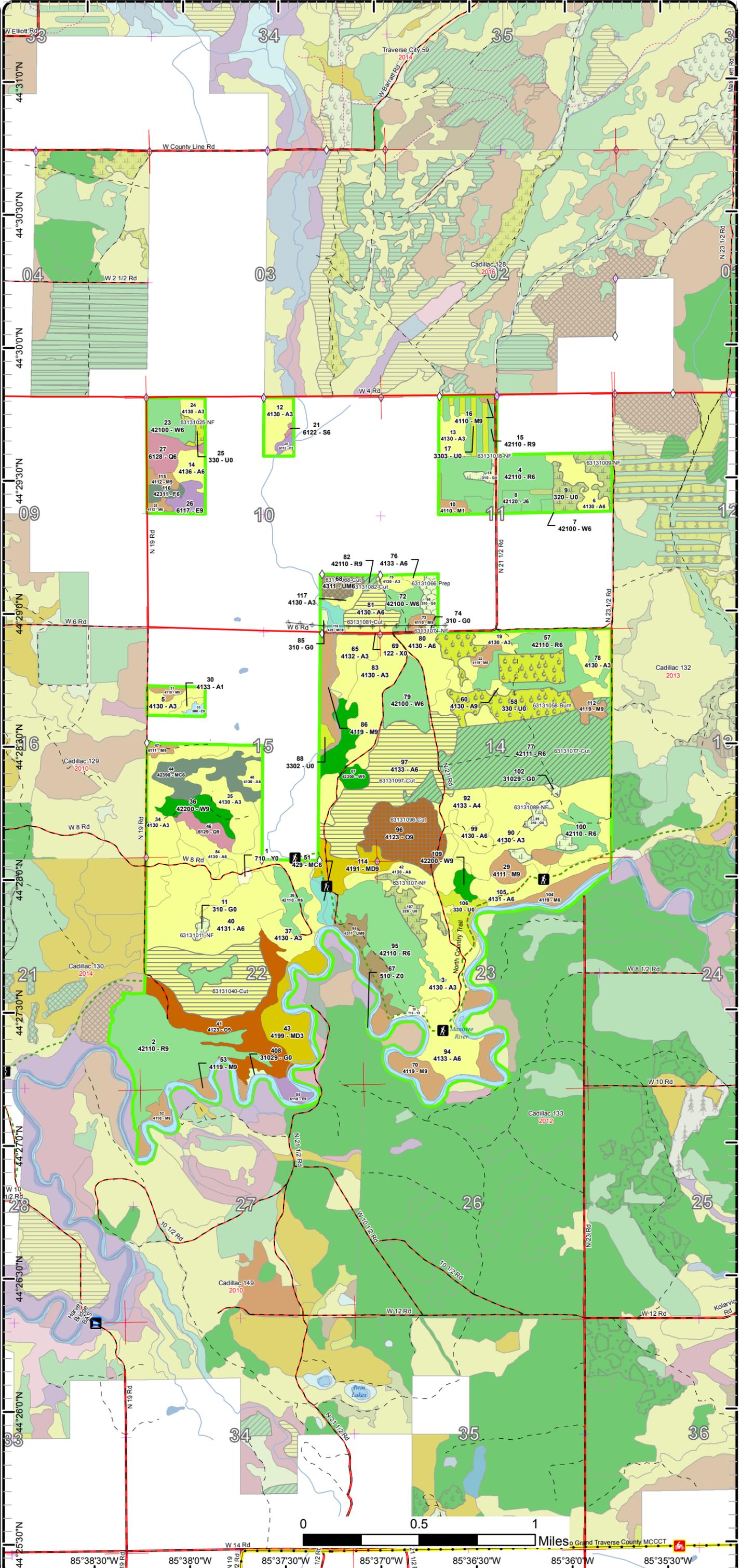
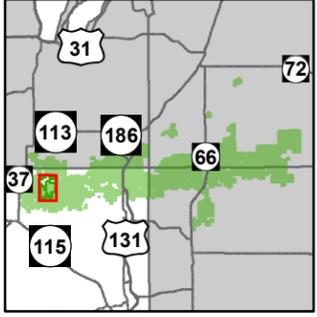
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

Compartment: 131
 T24N, R11W,
 Sec. 10, 11, 14, 15, 22, 23
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Manistee River Valley
 YOE: 2017
 Acres: 2271 GIS Calculated
 Examiner: Jim Malloy
 Map Revised: 7/14/2015
 Map Phase: Pre-Review



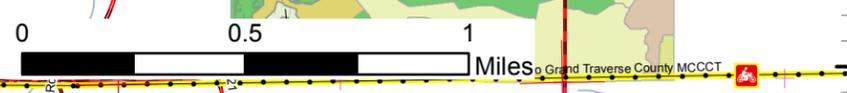
- ✦ Remonumented Section Corner
- ◇ Field Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- 🚤 Boating Access Site
- 🚶 Hiking Trails
- 🏍️ MCCCT Trails
- Designated Hiking Pathways
- Designated Bicycle Trails
- Designated Motorcycle Trails

- License_Type
- ORV License
 - Designated MCCCT Trails
 - Rivers
 - Lakes
 - Powerline

- Treatments
- Site Prep
 - Selection (Group, Single Tree)
 - Clearcut (w/Reserves)
 - Other Treatment - See Comments
 - Prescribed Burn
 - Opening Maintenance
 - Thinning (Crown, Low, Systematic)
 - Seed Tree (w/Reserves)

- Forest Covertype
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 430 - Upland Mixed Fores
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest

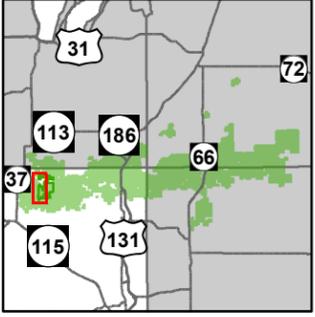
- Non-Forest Covertype
- 122 - Roads/Parking Lot
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low Density Trees
 - 500 - Water
 - 710 - Sand/Soil



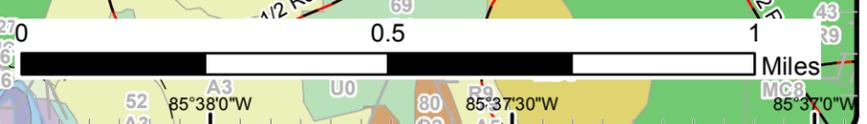
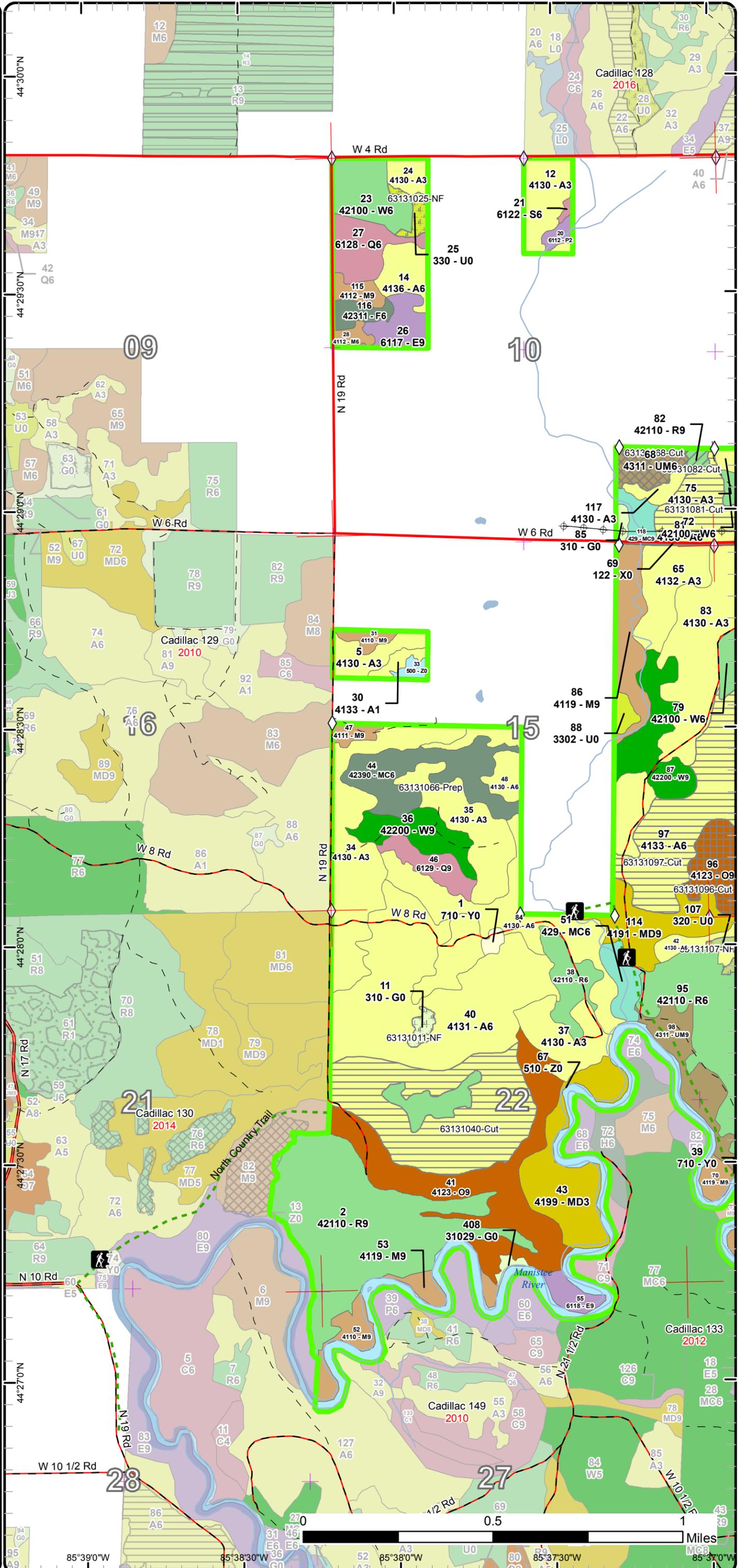
85°38'30"W 85°38'0"W 85°37'30"W 85°37'0"W 85°36'30"W 85°36'0"W 85°35'30"W

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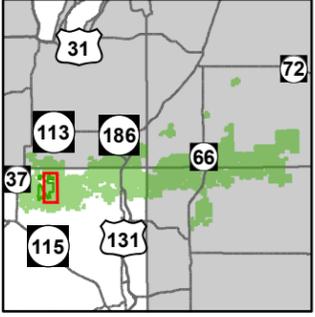


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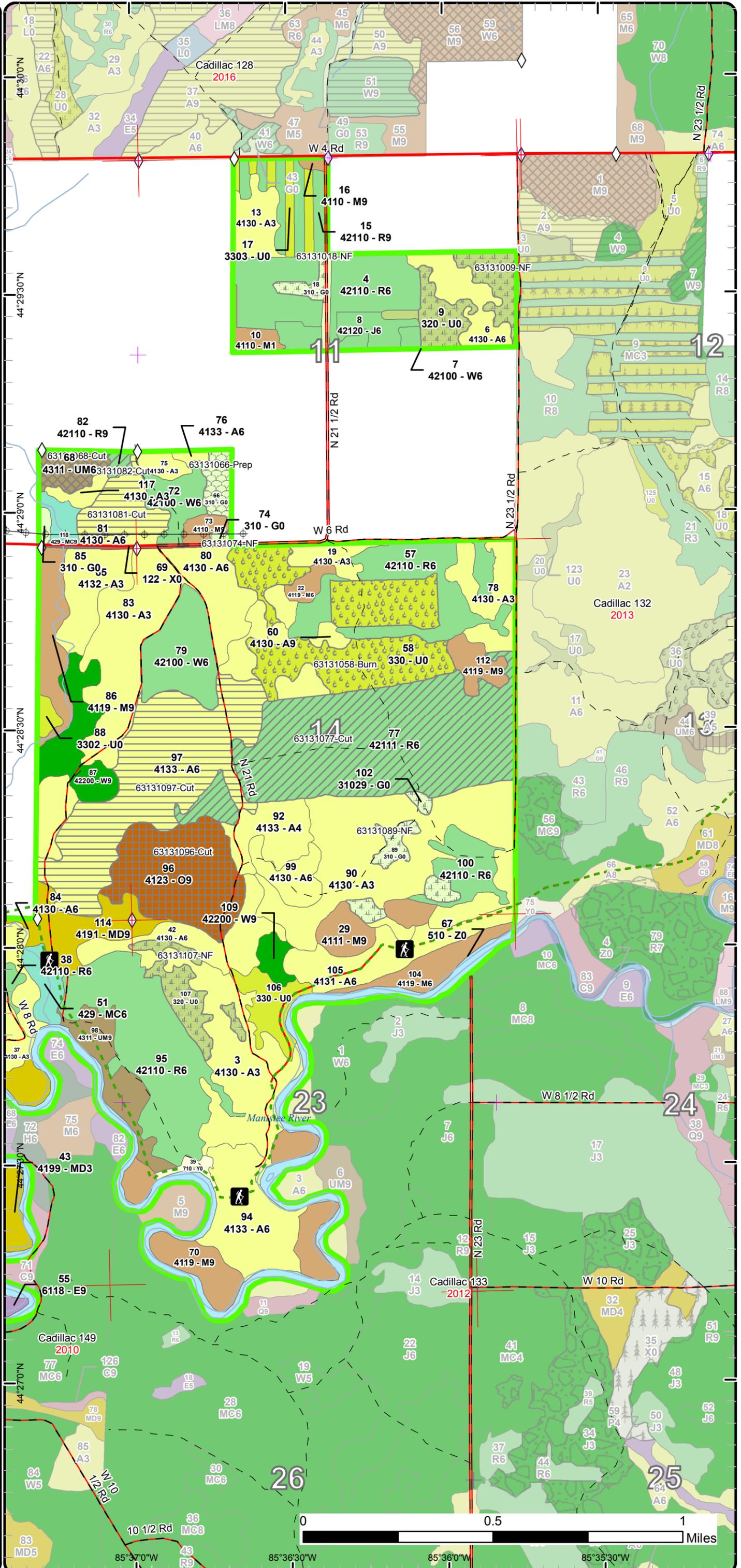


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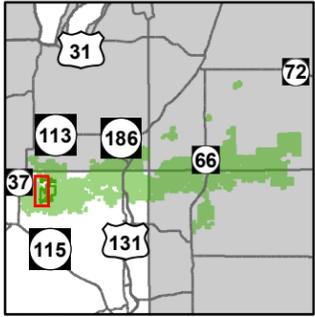
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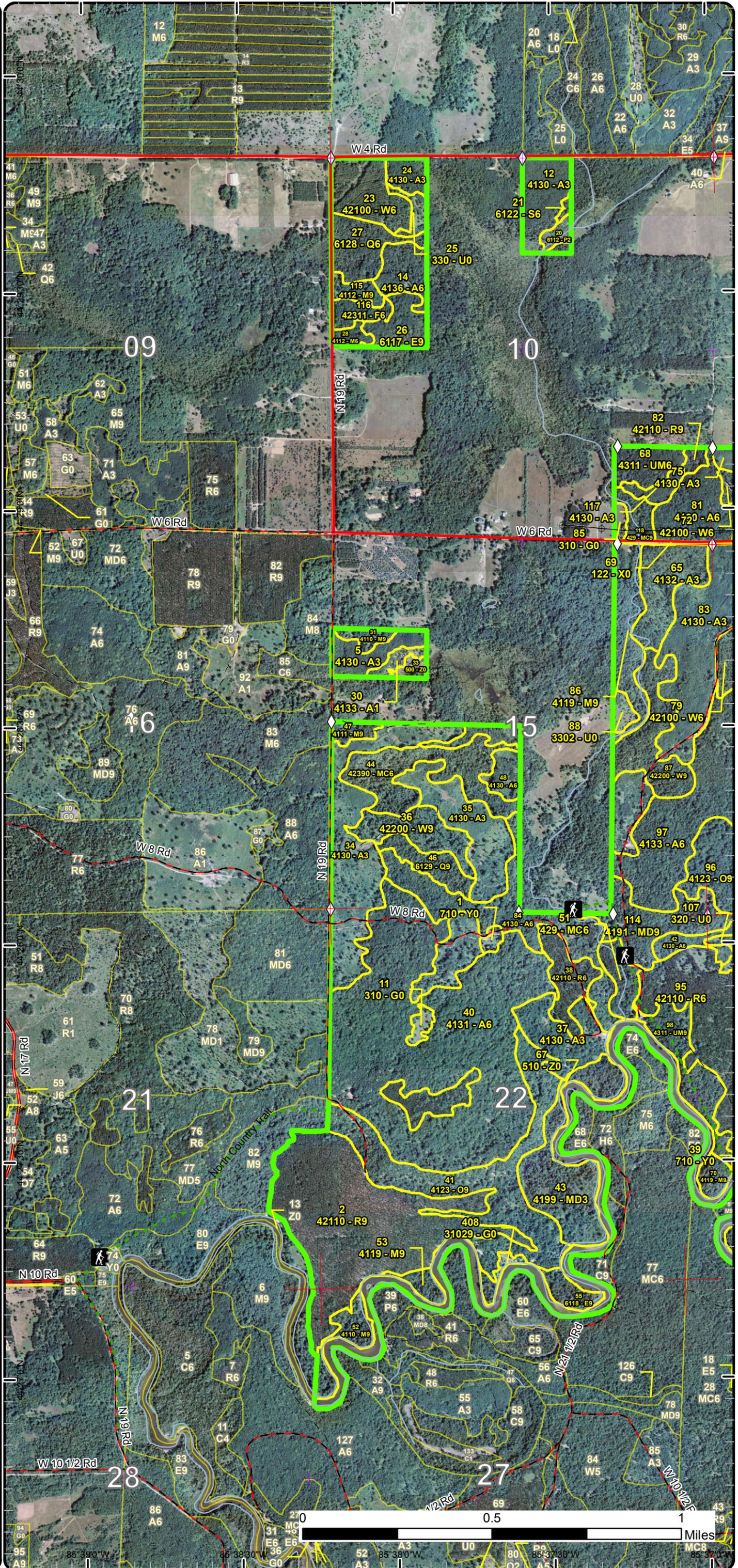
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Stand Boundary Map

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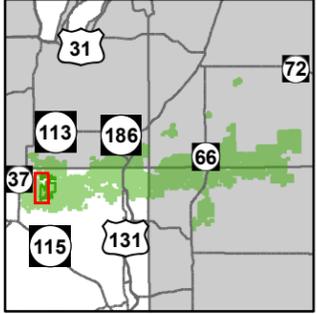


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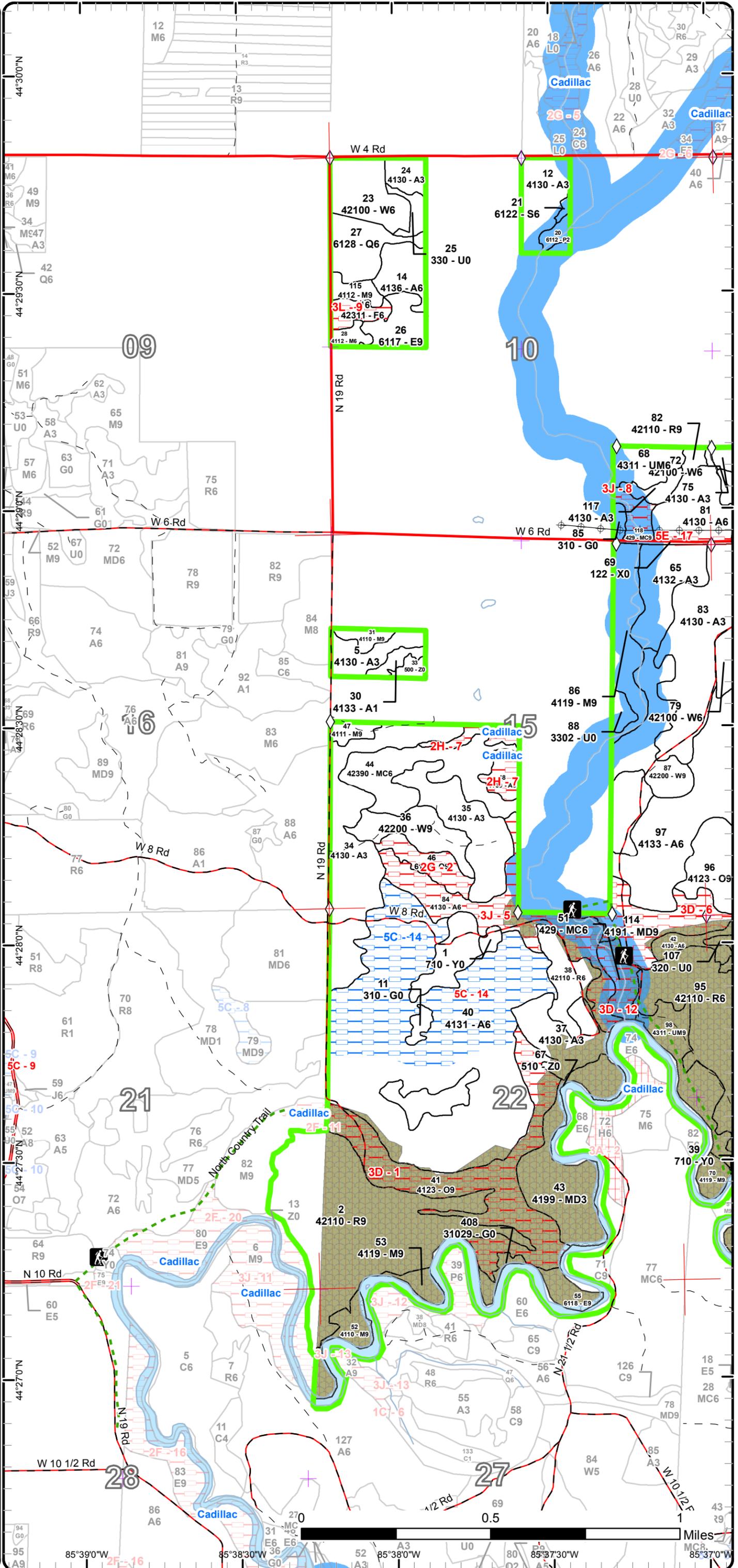


Special Conservation Areas & Site Conditions Map

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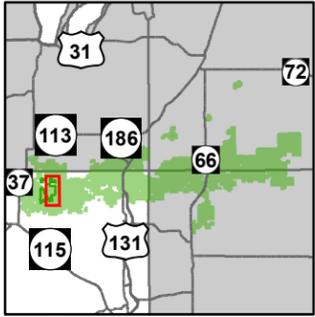


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- Rivers
- ⚡ Powerline
- Stand Boundaries
- SCA Recommendation**
- ▨ SCA Removal
- Site Condition**
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints**
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Potential old growth / biodiversity
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Special Conservation Areas**
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

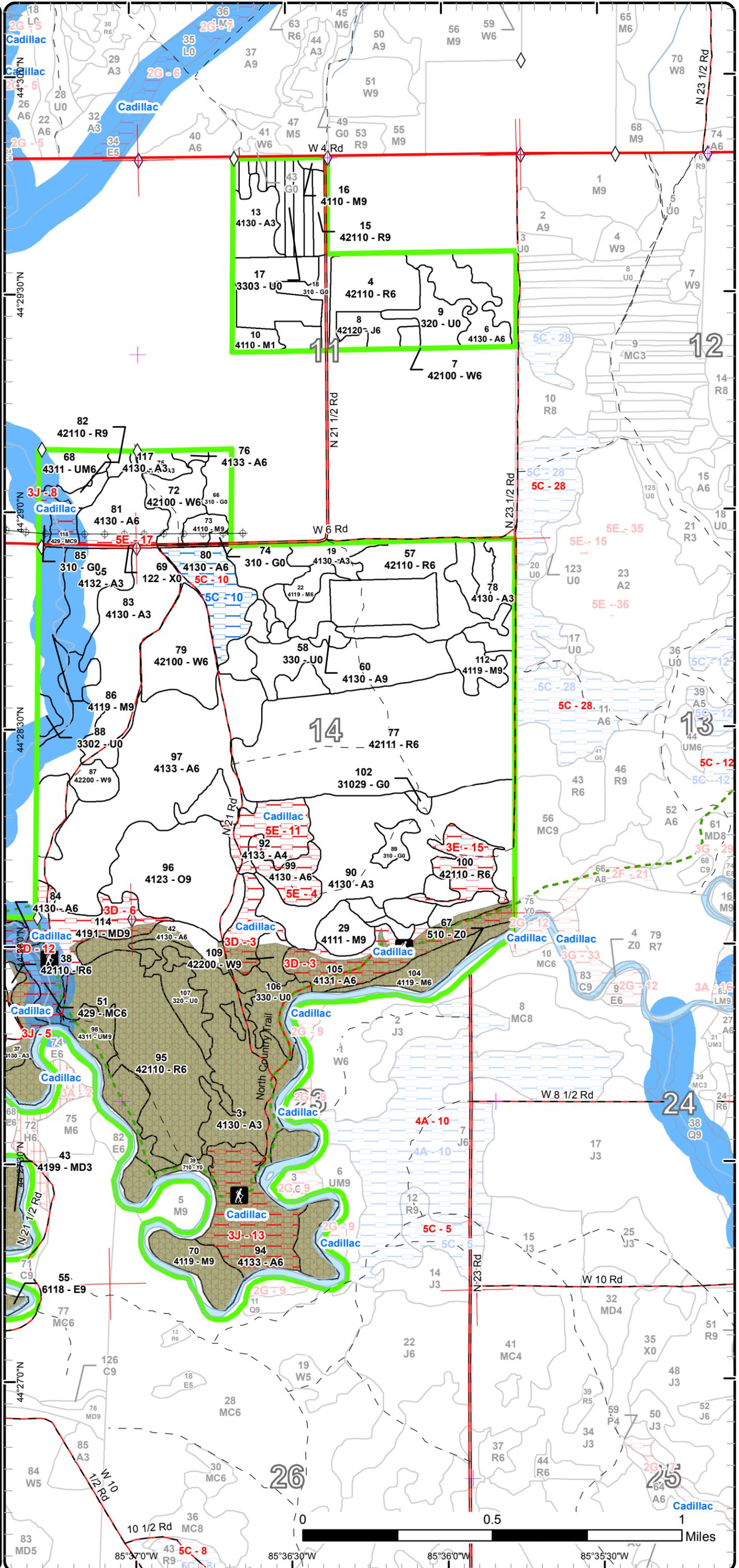


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- Rivers
- ⊕ Powerline
- Stand Boundaries
- SCA Recommendation**
- ▨ SCA Removal
- Site Condition**
- Available w/ Constraints
- - Unavailable
- Available Factors W/ Constraints**
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Potential old growth / biodiversity
- 3D: Recreational / Scenic values
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Special Conservation Areas**
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 131 Year of Entry 2017

Jim Malloy : 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+	Uneven-Aged	Total
Aspen	0	217	181	52	25	3	301	182	0	0	0	0	0	0	0	0	0	0	961
Herbaceous Openland	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Jack Pine	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Low-Density Trees	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Lowland Aspen/Balsam Poplar	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	0	0	16	0	0	10	0	0	0	0	0	0	26
Lowland Deciduous	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	6	17
Lowland Spruce/Fir	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	36	0	0	0	0	0	25	0	0	0	0	0	0	0	61
Northern Hardwood	0	0	0	0	0	9	0	19	35	4	24	0	0	0	0	0	0	51	142
Oak	0	0	0	0	0	0	0	0	0	62	52	0	0	0	0	0	0	0	114
Red Pine	0	0	0	47	0	0	384	16	0	0	0	0	0	0	0	0	0	0	447
Sand, Soil	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	6	41	0	0	0	0	0	47
Upland Mixed Forest	0	0	0	0	0	0	20	0	0	0	11	0	0	0	0	0	0	0	31
Upland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Upland Spruce/Fir	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
White Pine	0	0	0	0	0	0	65	40	0	6	0	0	0	0	0	0	0	0	111
Total	293	217	181	102	61	26	776	269	51	72	112	16	41	0	0	0	0	57	2274



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 131

Total Compartment Acres: 2,271

Commercial Harvest - 0
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 145

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	186	0	0	0	0	0	0	0	0	186
Oak	0	0	0	52	0	0	0	0	0	52
Red Pine	0	0	0	0	0	137	0	0	0	137
Upland Mixed Forest	0	11	0	0	0	0	0	0	0	11
Total	186	11	0	52	0	137	0	0	0	386

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	386	8	0	0	72	0	0	0	64	531
Next Step	0	52	8	0	72	0	265	0	0	397
Total	386	60	8	0	144	0	265	0	64	928



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	Approval Status
9	63131009-NF	24.2	320 - Upland Shrub	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Possible Burn. Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush or trees, brush pile creation, planting
Specs: shrubs or other mast/cover species.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 1 / 1 /2016

11	63131011-NF	2.7	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush or trees, brush pile creation, planting shrubs or other
Specs: mast/cover species.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

18	63131018-NF	4.1	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes**Site Condition:**

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Specs: mast/cover species.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 1 / 1 /2016

25	63131025-NF	3.9	330 - Low-Density Trees	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush or trees, brush pile creation, planting shrubs or other
Specs: mast/cover species.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 1 / 1 /2016



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	Approval Status
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40	63131040-Cut	72.1	4131 - Aspen, Oak	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Final harvest a portion of stand (1/3rd) focusing on the southern portion of this large stand. Final harvest leaving small conifer (>4") and oak
Specs: (>8").

Next Step
Treatments:

Acceptable Aspen, Maple, Pine, Oak
Regen:

Other Apply appropriate trail protections along NCT where necessary. Leave a buffer strip along southern edge to serve as retention and visual break
Comment: from top of bluff. Old next step comments:

Proposed Start Date: 10/1 /2016

58	63131058-Burn	72.1	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Burn	Opening	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Burn to keep open
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 1 /1 /2016

66	63131066-Prep	8.1	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Trench an plant red pine in abandoned field
Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable red pine
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

68	63131068-Cut	10.8	4311 - Pine, Aspen Mix	Poletimber Well	98	81-110	Harvest	Group Selection	4319 - Mixed Upland Forest	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription harvest all aspen and red maple and mark white pine to cut to a residual BA of 30-50 to provide a seed source for a new cohort of pine.
Specs:

Next Step
Treatments:

Acceptable White pine, aspen, red maple.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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	Approval Status
74	63131074-NF	1.1	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes**Site Condition:**Prescription opening maintanceSpecs:Next StepTreatments:AcceptableRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

77	63131077-Cut	135.2	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	56	171- 200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Thin pine to a residual BA of 90. Remove all hardwood and aspen within stand boundaries.Specs:Next StepTreatments:AcceptableRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

81	63131081-Cut	18.0	4130 - Aspen	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Final harvest the portion of the stand north of the power line ROW. The area between the road and power line will serve as the retention for this stand.Specs:Next StepTreatments:Acceptable Aspen, maple and white pine.Regen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

82	63131082-Cut	2.3	42110 - Planted Red Pine	Sawtimber Well	50	171- 200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**Prescription Thin red pine to a residual BA of 100-110.Specs:Next StepTreatments:AcceptableRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016



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	Approval Status
89	63131089-NF	12.3	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush or trees, brush pile creation, planting shrubs or other
Specs: mast/cover species.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

96	63131096-Cut	52.0	4123 - Red Oak	Sawtimber Well	95	51-80	Harvest	Seed Tree with Retention	412 - Oak Types	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark oak to cut to a residual BA of 30-50. Cut all maple and aspen but leave scattered conifer. Scarify stand following harvest to encourage
Specs: acorn germination.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Oak, maple
Regen:

Other leave a buffer strip along southern edge to serve as retention and visual break from top of bluff. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

97	63131097-Cut	96.0	4133 - Aspen, Mixed Pine	Poletimber Well	62	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest aspen and red maple. Mark oak to cut ta a residual BA of 50 in areas of higher density.
Specs:

Next Step
Treatments:

Acceptable Aspen, red maple, oak, white pine
Regen:

Other leave a buffer strip along southern edge to serve as retention and visual break from top of bluff. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

107	63131107-NF	16.2	320 - Upland Shrub	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Possible Burn. Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush or trees, brush pile creation, planting
Specs: shrubs or other mast/cover species.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 1 /1 /2016

**Total Treatment
 Acreage Proposed: 531.0**

Report 5 – Site Conditions

Cadillac Mgt. Unit
Jim Malloy : Examiner

Compartment: 131
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions	Dominant Site Conditions							
				2G	2H	3D	3E	3J	3L	5C	5E
960	670	289	Aspen		12	41		77		124	36
36	36	0	Herbaceous Openland								
14	14	0	Jack Pine								
103	103	0	Low-Density Trees								
3	3	0	Lowland Aspen/Balsam Poplar								
26	16	10	Lowland Conifers	10							
17	17	0	Lowland Deciduous								
1	1	0	Lowland Spruce/Fir								
61	36	25	Mixed Upland Deciduous			25					
141	141	0	Northern Hardwood								
114	52	62	Oak			62					
447	430	16	Red Pine				16				
5	5	0	Sand, Soil								
47	32	15	Upland Conifers			9		6			
31	31	0	Upland Mixed Forest								
42	42	0	Upland Shrub								
6	0	6	Upland Spruce/Fir						6		
2	2	0	Urban								
105	105	0	Water								
111	111	0	White Pine								
2,271	1,848	424	Total Forested Acres	10	12	137	16	83	6	124	36
	81%	19%	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	3D: Recreational / Scenic values	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand occurs along bluff to Manistee River							

Report 5 – Site Conditions

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar spruce swamp area							
3	Unavailable	3D: Recreational / Scenic values	42	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Stand occurs along bluff to Manistee River							
4	Unavailable	5E: Long-Term Retention	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	39	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Steep areas along the Anderson Creek							
6	Unavailable	3D: Recreational / Scenic values	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is wet to the north and west							

Report 5 – Site Conditions

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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: steep areas adjacent to Anderson Creek							
9	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Spruce stand provides wildlife cover. Thin next YOE							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: hold for age class diversity.							
11	Unavailable	5E: Long-Term Retention	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold as retention for surrounding aspen areas.							
12	Unavailable	3D: Recreational / Scenic values	9	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Stand surrounds Anderson Creek and contains footbridge of NCT over the creek. Steep banks increase risk of erosion, and opening up stream to sunlight could cause negative effects on water quality.							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

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14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	101	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consumers Pine							
17	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention/visual buffer for adjacent stand.							



Report 6 – 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
Unspecified	Potential Old Growth		SCA Removal	530
Comments				
THIN (heavily) FROM BELOW AND TAKE OUT ALL DEFECT. LEAVE ONLY HIGHEST QUALITY RESIDUAL (product wise). TARGET RESIDUAL BA OF 100 SQ.FT. LEAVE ALL HARDWOOD (seed source). PLANTATION CONTINUES INTO COMPARTMENT 130 (to the west), CONTINUE TREATMENT*				

**Report 7 – 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.

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Cadillac Mgt. Unit

Report 8 – Forested Stands

Compartment: 131
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42110 - Planted Red Pine	Sawtimber Well	96.8	58	81-110	Pine scheduled for treatment last entry. Treatment did not occur until summer 2014. Growing very well with hardwood encroachment in the understory.
3	4130 - Aspen	Sapling Well	51.5	12	81-110	
4	42110 - Planted Red Pine	Poletimber Well	46.6	28	81-110	Planted red pine adjacent to private to the west. Stand is closing in and growing well. Avg 25' height.
5	4130 - Aspen	Sapling Well	10.5	25	1-50	aspen is progressing into pole size. Small unmapped pocket of cedar in the SW of stand.
6	4130 - Aspen	Poletimber Well	18.0	25	1-50	stand of young aspen that is growing well. contains scattered maple and oak throughout.
7	42100 - Planted White Pine	Poletimber Well	4.4	50	141-170	previous inventory cites this as an experimental plantation done by MSU in 1965. Attempted to improve vertical growth by maintain high BA.
8	42120 - Planted Jack Pine	Poletimber Well	13.6	47	81-110	off site jack pine that is falling apart. Mixed with cherry and red maple. Previous inventory indicated an experimental planting done by MSU in 1968.
10	4110 - Sugar Maple Association	Sapling Poor	5.8	45	1-50	mostly cherry and maple with a few scattered elm trees. Many of the elm are dead snags. Serves as a different cover surrounded by different pine types. A few scattered maples throughout.
12	4130 - Aspen	Sapling Well	16.8	25	1-50	aspen stand that borders 4 rd to the north and transitions to a wet area toward the south along Anderson creek.
13	4130 - Aspen	Sapling Well	13.5	5	Immature	
14	4136 - Aspen, Mixed Conifer	Poletimber Well	11.3	39	51-80	
15	42110 - Planted Red Pine	Sawtimber Well	15.5	59	141-170	Stand was thinned last entry. Crowns have not closed in yet, so delay next treatment until the next YOY.
16	4110 - Sugar Maple Association	Sawtimber Well	1.3	74	51-80	small pocket of hardwood at edge of red pine strips.
19	4130 - Aspen	Sapling Well	25.3	15	1-50	northern portion of stand contains a few scattered hardwood and a small open area along county road. these multiple stands are all part of a single sale.
20	6112 - Lowland Aspen	Sapling Medium	3.0	25	1-50	Stand contains Anderson Creek.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	6122 - Black Spruce	Poletimber Well	1.0	63	51-80	OPIE - FMD: A3 - 2-3" dia. (avg ht 32').
22	4119 - Mixed Northern Hardwoods	Poletimber Well	4.8	74	51-80	dead ash snags in stand providing good habitat for birds. Aspen encroaching in from edge.
23	42100 - Planted White Pine	Poletimber Well	18.9	50	141-170	White pine was thinned last entry. Crowns not closed yet. Thin or final harvest next entry.
24	4130 - Aspen	Sapling Well	6.1	26	Immature	
26	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	11.1	64	81-110	aspen occurs mostly along the edge of the stand.
27	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.7	74	51-80	
28	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.2	47	51-80	stand is multi stemmed cherry and red maple with a scattered hemlock understory. Ground transitions to a wetter stand to the west, and some hummocks occur.
29	4111 - S.Maple, Hard Mast Association	Sawtimber Well	14.6	92	51-80	stand was treated last entry an all ash removed due to EAB infestation.
30	4133 - Aspen, Mixed Pine	Sapling Poor	3.4	42	1-50	transitional area between aspen stand and beaver flooding. Shows signs of activity.
31	4110 - Sugar Maple Association	Sawtimber Well	3.7	76	81-110	sparse hardwoods with aspen.
34	4130 - Aspen	Sapling Well	60.4	7	1-50	This stand was harvested in the summer of 2008 and was a tree length operation and chipper. A few residual white pine were left. Growing well, this is one stand from a multi stand sale. Stand is adjacent to 19 rd.
35	4130 - Aspen	Sapling Well	27.1	8	1-50	Young aspen stand that was treated last YOE with scattered residual over story oak.
36	42200 - Natural White Pine	Sawtimber Well	16.4	65	81-110	stand was harvested last entry with all maple and aspen being removed along with a portion of the white pine over story. Aspen and maple are now regenerating under the pine.
37	4130 - Aspen	Sapling Well	19.6	17	1-50	aspen stand with a residual over story of red oak.
38	42110 - Planted Red Pine	Poletimber Well	23.7	59	141-170	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4131 - Aspen, Oak	Poletimber Well	173.3	52	51-80	large aspen complex with red oak, maple, and white pine. This stand occurs entirely above the bluff leading to the Manistee River. stand transitions from almost a pure aspen stand in the western portion to a more maple oak aspen stand to the east. NCT runs through the stand in the southern portion.
41	4123 - Red Oak	Sawtimber Well	61.8	87	81-110	Stand of oak that occurs along the bluff to the Manistee River.
42	4130 - Aspen	Poletimber Well	13.7	32	51-80	Stand occurs on the face of a bluff and along the top ridge of the bluff.
43	4199 - Other Mixed Upland Deciduous	Sapling Well	36.0	36	51-80	mostly black ash in the river floodplain. Most is dead/dying due to EAB. Flooded during the winter. Heavy use by deer and turkey. Scattered balsam fir.
44	42390 - Mixed Non- Pine Upland Conifers	Poletimber Well	31.6	118	51-80	Cedar and balsam fir with scattered large white pine and red maple. This stand has evidence of flowing water during wet seasons. Some blow down has occurred in the cedar, but little regeneration is evident.
46	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	10.2	102	51-80	lowland pocket surrounded by upland aspen and pine.
47	4111 - S.Maple, Hard Mast Association	Sawtimber Well	3.8	87	51-80	Stand contains an easement for access to private property to the east. This stand was a small grove of hardwood that was left following the adjacent timber sale. Keep for species diversity in the area. No scale was observed on the beech. Some aspen is bleeding into the stand following the adjacent cut.
48	4130 - Aspen	Poletimber Well	12.0	57	51-80	stand has areas of seasonally wet portions. southern portion of stand is surrounded by adjacent swamp complex.
51	429 - Mixed Upland Conifers	Poletimber Well	9.0	114	51-80	Stand contains Anderson Creek
52	4110 - Sugar Maple Association	Sawtimber Well	9.8	105	81-110	Northern hardwoods on the flood plain several feet above the river, with a mix of cedar.
53	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.2	98	51-80	Stand consists of N.hwds w/some large dia. cedar on the flood plain several feet above the river. Large ash are dead/dying due to EAB
55	6118 - Lowland Deciduous with Cedar	Sawtimber Well	6.2	104	51-80	hardwood stand along river that shows obvious signs of seasonal flooding. Ash is dead/dying due to EAB
57	42110 - Planted Red Pine	Poletimber Well	41.2	55	81-110	
60	4130 - Aspen	Sawtimber Well	4.5	61	51-80	small stands

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Cadillac Mgt. Unit

Report 8 – Forested Stands

Compartment: 131
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	4132 - Aspen, Jack Pine	Sapling Well	21.3	12	1-50	Stand consists of jack pine which is falling apart and being succeeded by aspen and red maple.
68	4311 - Pine, Aspen Mix	Poletimber Well	10.8	98	81-110	Stand is combination of over story white pine with an aspen maple understory. In areas of little white pine it is almost pure aspen.
70	4119 - Mixed Northern Hardwoods	Sawtimber Well	34.8	101	51-80	hardwood stand that occurs along river. N hardwood with cedar. Ash component is dying due to EAB.
72	42100 - Planted White Pine	Poletimber Well	13.3	59	81-110	
73	4110 - Sugar Maple Association	Sawtimber Well	4.6	72	81-110	overhead power line runs through stand.
75	4130 - Aspen	Sapling Well	5.0	4	81-110	
76	4133 - Aspen, Mixed Pine	Poletimber Well	1.8	68	81-110	Stand was not cut during previous entry. Hold as retention for adjacent cut.
77	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	135.2	56	171-200	Stand was thinned last entry. Thin again this entry, and remove all scattered hardwood and aspen.
78	4130 - Aspen	Sapling Well	19.8	5	1-50	
79	42100 - Planted White Pine	Poletimber Well	28.5	54	111-140	Stand was thinned last entry. All aspen within stand was cut along with 1/2 of white pine removed. Hold until next entry and final harvest then. Determine if stand should be kept as pine or allowed to convert to aspen pine mix.
80	4130 - Aspen	Poletimber Well	22.4	50	81-110	
81	4130 - Aspen	Poletimber Well	21.9	55	81-110	Aspen stand contains a power line ROW in the southern portion along the county road.
82	42110 - Planted Red Pine	Sawtimber Well	2.3	50	171-200	
83	4130 - Aspen	Sapling Well	58.6	15	1-50	
84	4130 - Aspen	Poletimber Well	39.0	58	81-110	Steep bluff along Anderson creek in the eastern portion of the stand. This portion was too steep to be harvested during the adjacent harvest to the west. Ash component is mostly dead snags.
86	4119 - Mixed Northern Hardwoods	Sawtimber Well	20.2	72	81-110	Stand buffers along western edge of Anderson Creek and contains steep bank with very limited access.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
87	42200 - Natural White Pine	Sawtimber Well	24.1	67	81-110	
90	4130 - Aspen	Sapling Well	91.4	5	1-50	Aspen stand that was harvested last entry. Brush piles were left for habitat and lots of edge was created with the stand boundary. Autumn olive bushes are prevalent in the stand and especially along the two tracks through this stand.
92	4133 - Aspen, Mixed Pine	Poletimber Poor	19.8	55	1-50	
94	4133 - Aspen, Mixed Pine	Poletimber Well	37.8	62	51-80	stand touches Manistee river on two sides and is mostly flat. transitions to lower ground in the adjacent stands to the east and west and transition into a more hardwood component.
95	42110 - Planted Red Pine	Poletimber Well	69.1	58	141-170	
96	4123 - Red Oak	Sawtimber Well	52.0	95	51-80	Stand of red oak that occurs on top of the bluff leading down to the Manistee river.
97	4133 - Aspen, Mixed Pine	Poletimber Well	96.0	62	81-110	aspen and oak with scattered pockets of white pine throughout.
98	4311 - Pine, Aspen Mix	Sawtimber Well	20.4	55	51-80	Mostly white pine with aspen, some scattered hardwood in fringes along the river. Popular caning spot in NW of stand along Manistee river/Anderson creek.
99	4130 - Aspen	Poletimber Well	12.0	54	51-80	stand was left out of large adjacent cut last entry.
100	42110 - Planted Red Pine	Poletimber Well	16.3	62	171-200	previous comments list this stand as consumers pine timber rights
104	4119 - Mixed Northern Hardwoods	Poletimber Well	14.2	69	81-110	stand occurs on the lower flat below the river bluff. Mix of n hardwood with cedar.
105	4131 - Aspen, Oak	Poletimber Well	41.5	62	81-110	
109	42200 - Natural White Pine	Sawtimber Well	5.6	84	51-80	
112	4119 - Mixed Northern Hardwoods	Sawtimber Well	9.3	95	81-110	
114	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	25.2	93	81-110	stand occurs along ridge and bluff.
115	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.8	63	81-110	few scattered log sized cherry throughout stand.

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Cadillac Mgt. Unit

Report 8 – Forested Stands

Compartment: 131
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
116	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	5.8	53	111-140	
117	4130 - Aspen	Sapling Well	4.4	15	1-50	
118	429 - Mixed Upland Conifers	Sawtimber Well	6.1	100	51-80	Stand contains the Anderson Creek. Steep banks to the creek limit access.



Stand Cover Type

Acres

Managed
Site

General Comments:

#Type!
