

Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63131

Entry Year: 2027

Acreage: 2,284

County: Wexford

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Joel Taylor

Legal Description:

T24N R11W, Sections 10, 11, 14, 15, 21, 22, 23, 26, 27, 28

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 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. Section 15 is half state forest with private lands being mostly forested. 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, wood turtle 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:

Corners are requested for 2027 YOE.

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)

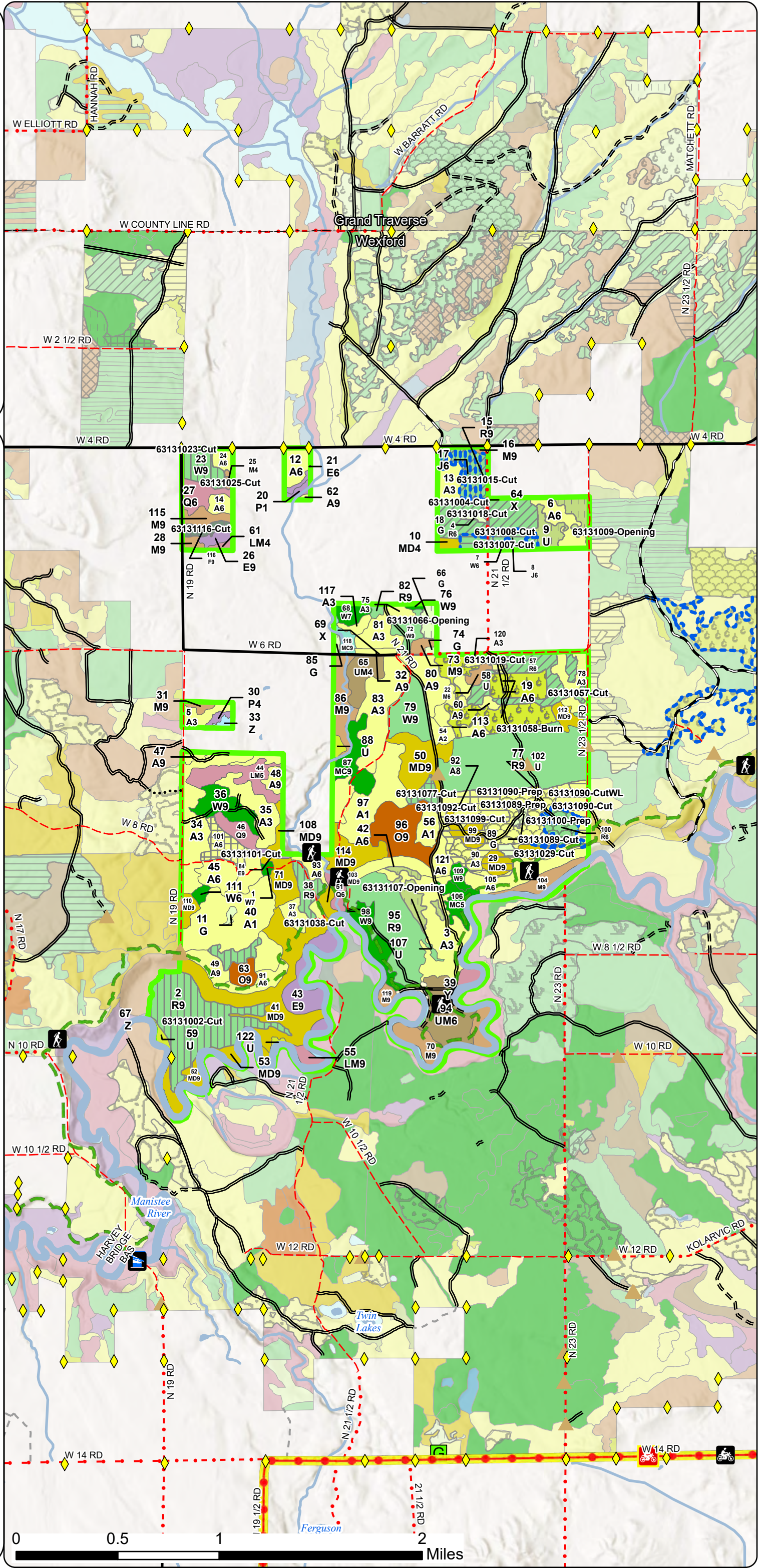
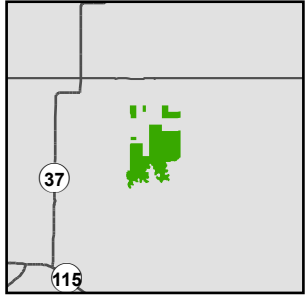
Fire Protection:

Within this compartment there are numerous forest 2 tracks providing 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.

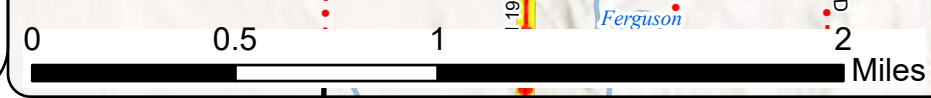
Additional Compartment Information:

Cover Type & Treatments Map

Compartment: 63131
 T24N, R09W Sec. 18-20, 29-30
 County: Wexford
 Unit: Cadillac
 Mgmt. Area: Kalkaska Sandy Moraines
 YOE: 2027
 Acres: 2,284.04 GIS Calculated
 Examiner: Joel Taylor
 Date Exported: 1/8/2026
 Map Phase: Post Maps

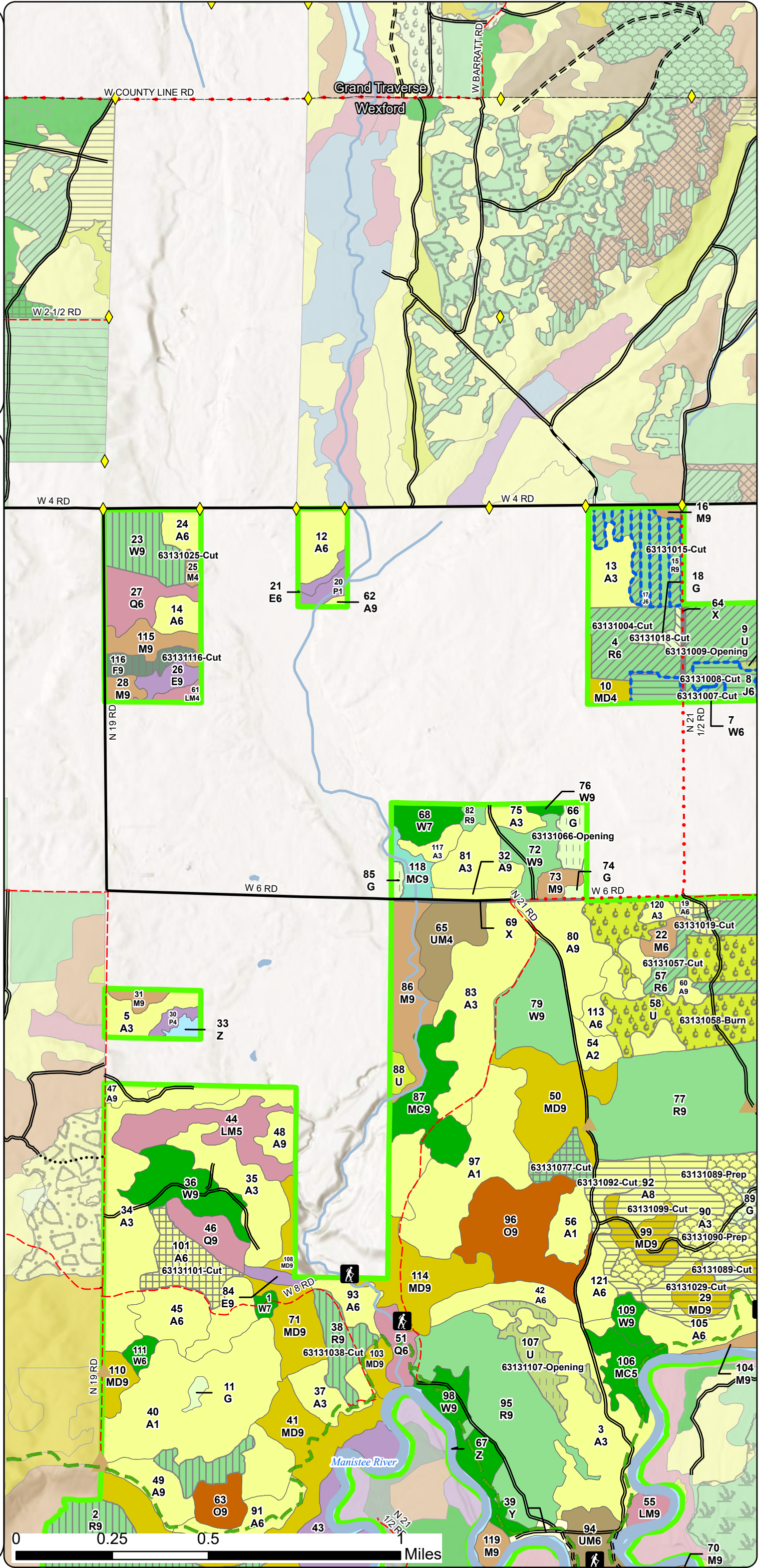
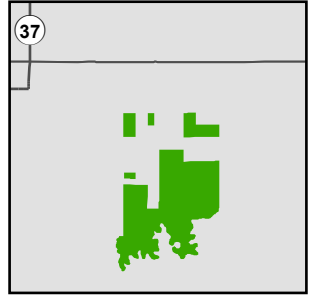


- Survey Grade Corners
- Culvert
- Boating Access Site
- Berm
- Gate
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Seed Tree
- Shelterwood
- Thinning
- Other Harvest - See Comments
- Site Prep
- Prescribed Burn
- Openings Mgmt.
- Clearcut
- Selection
- Seed Tree
- Shelterwood
- Thinning
- Overstory Removal
- Site Prep
- Prescribed Burn
- Pesticide
- Openings Mgmt.
- Monitoring - Regeneration
- 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 Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
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- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 710 - Sand, Soil

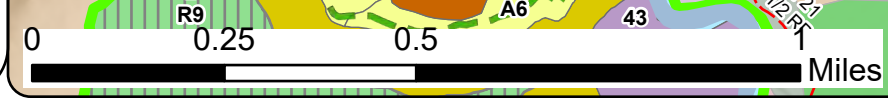


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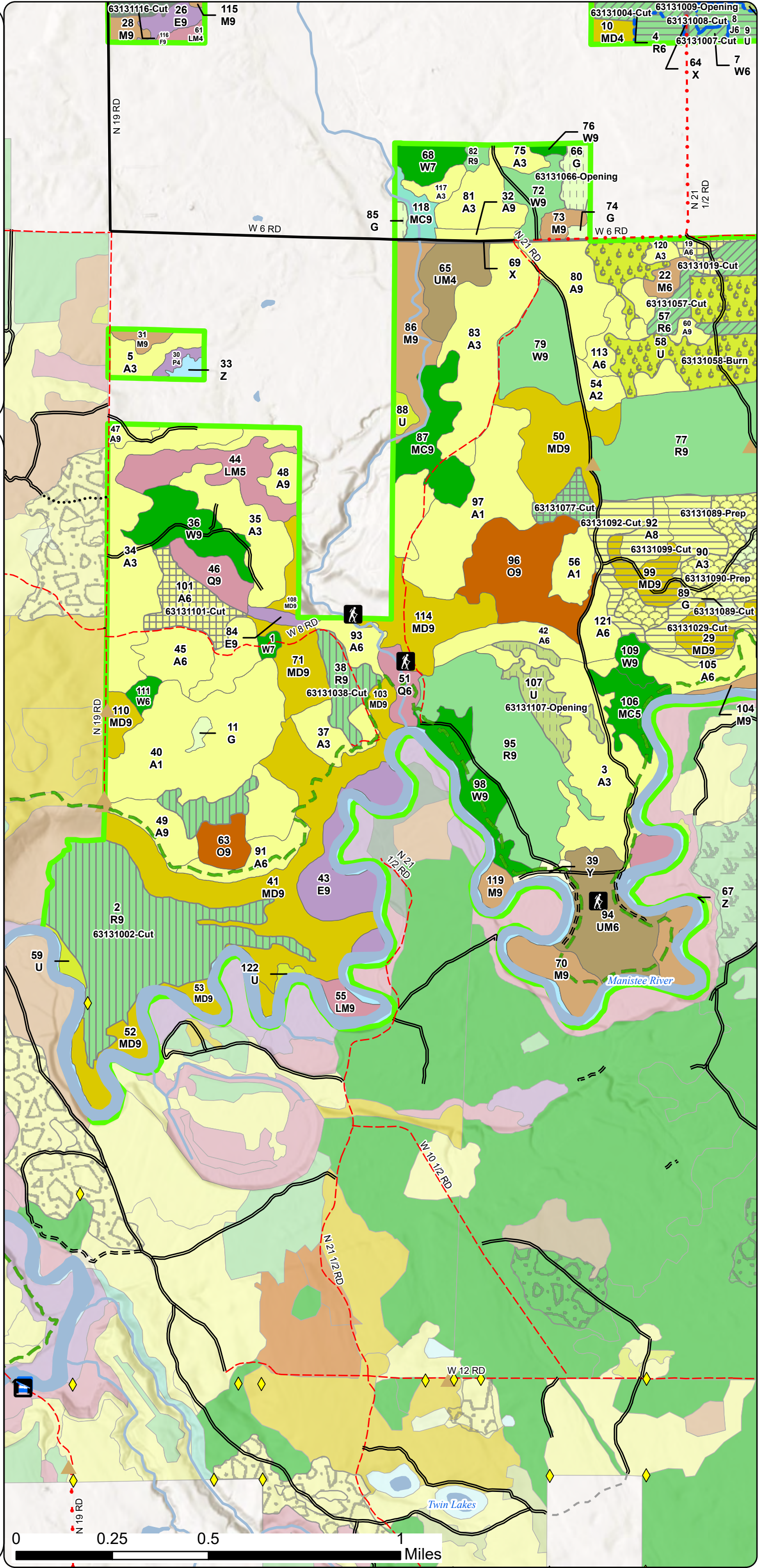
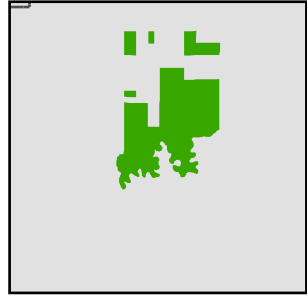


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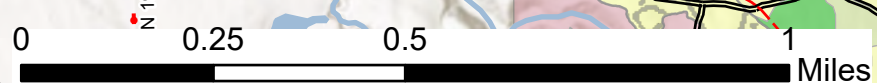


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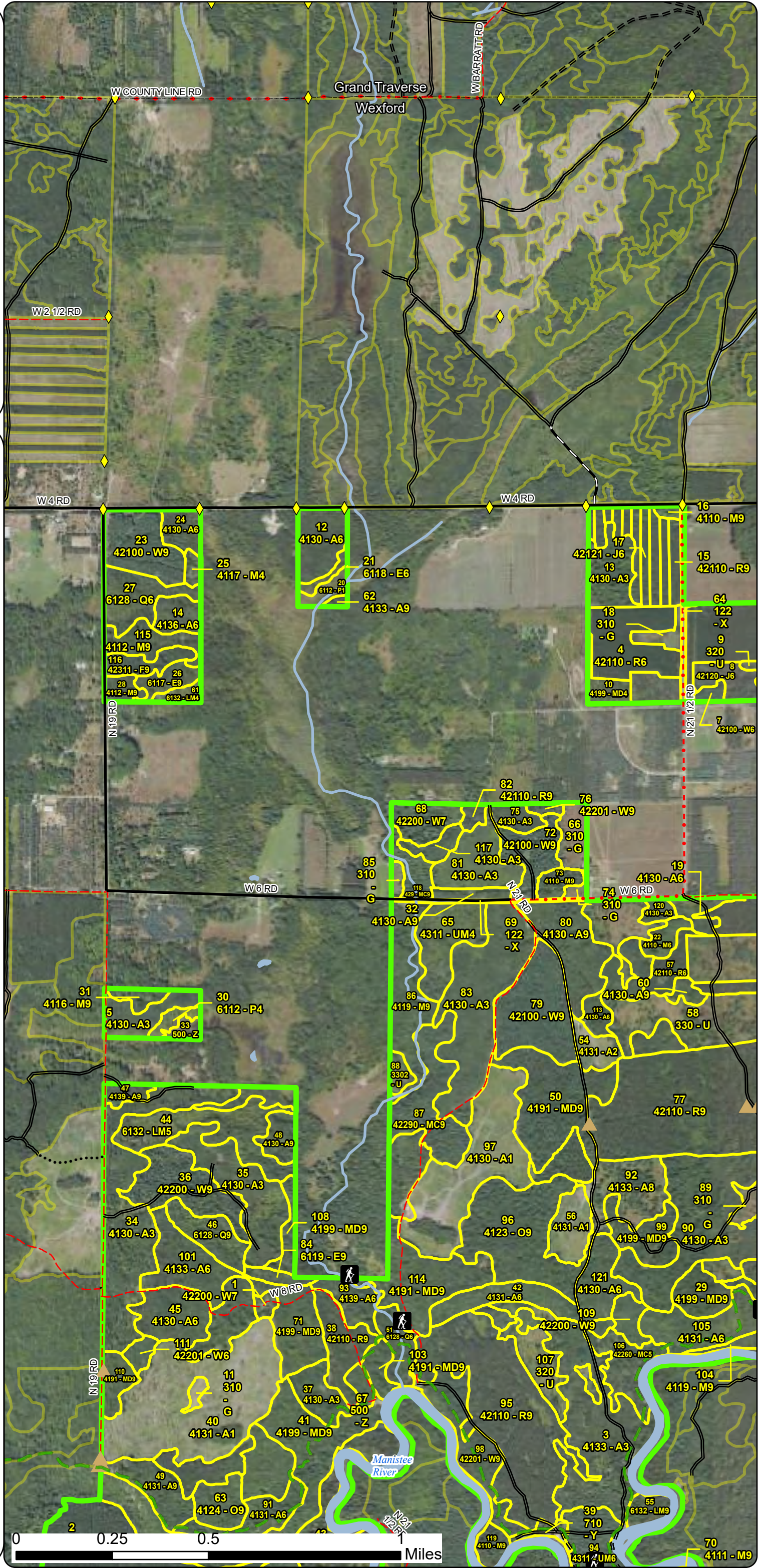
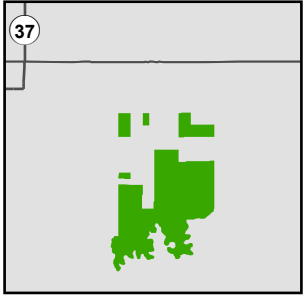


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Stand Boundary Map

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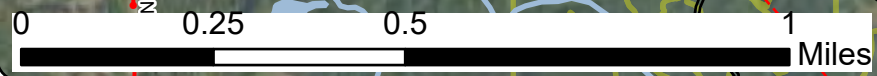
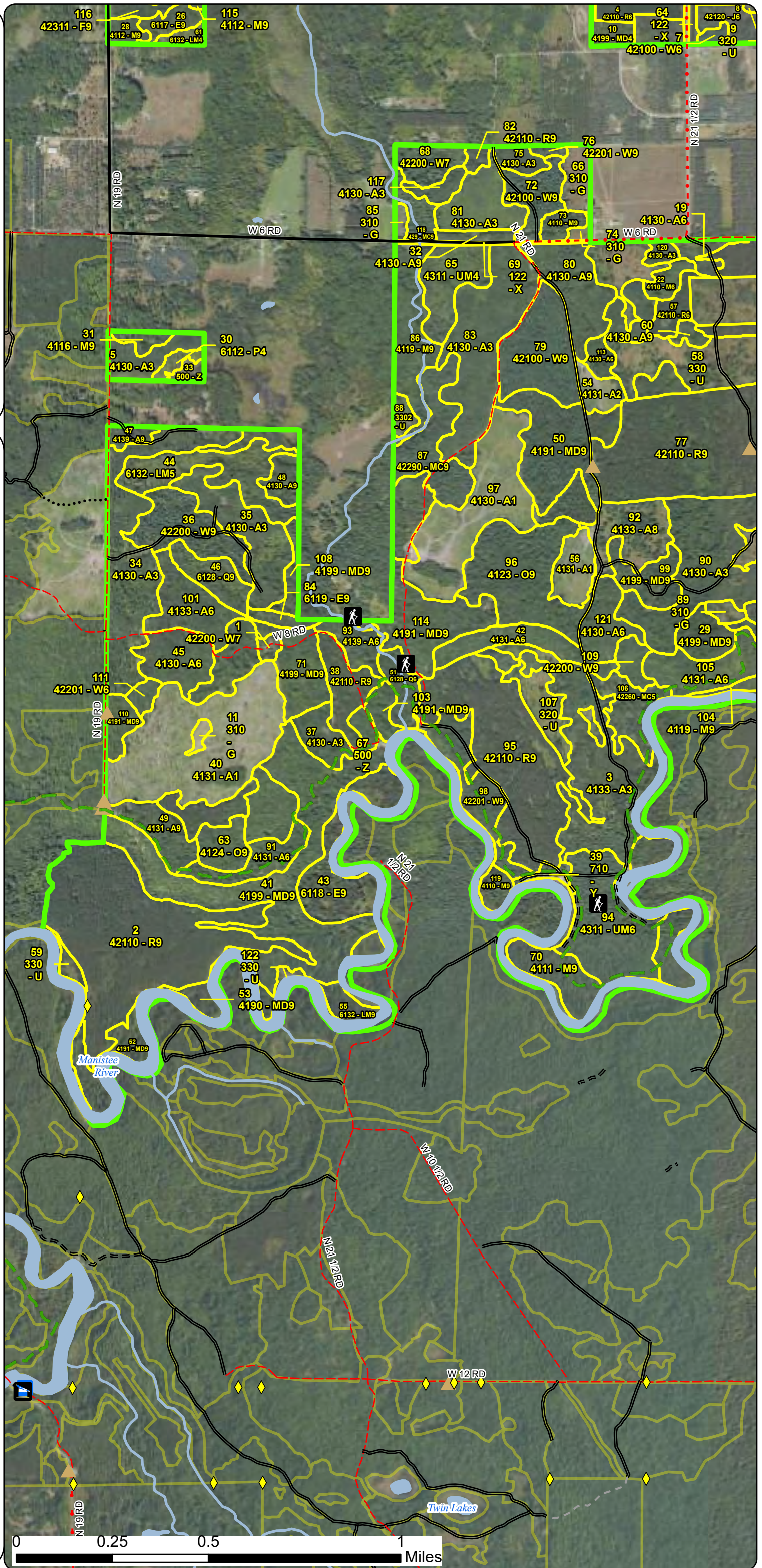


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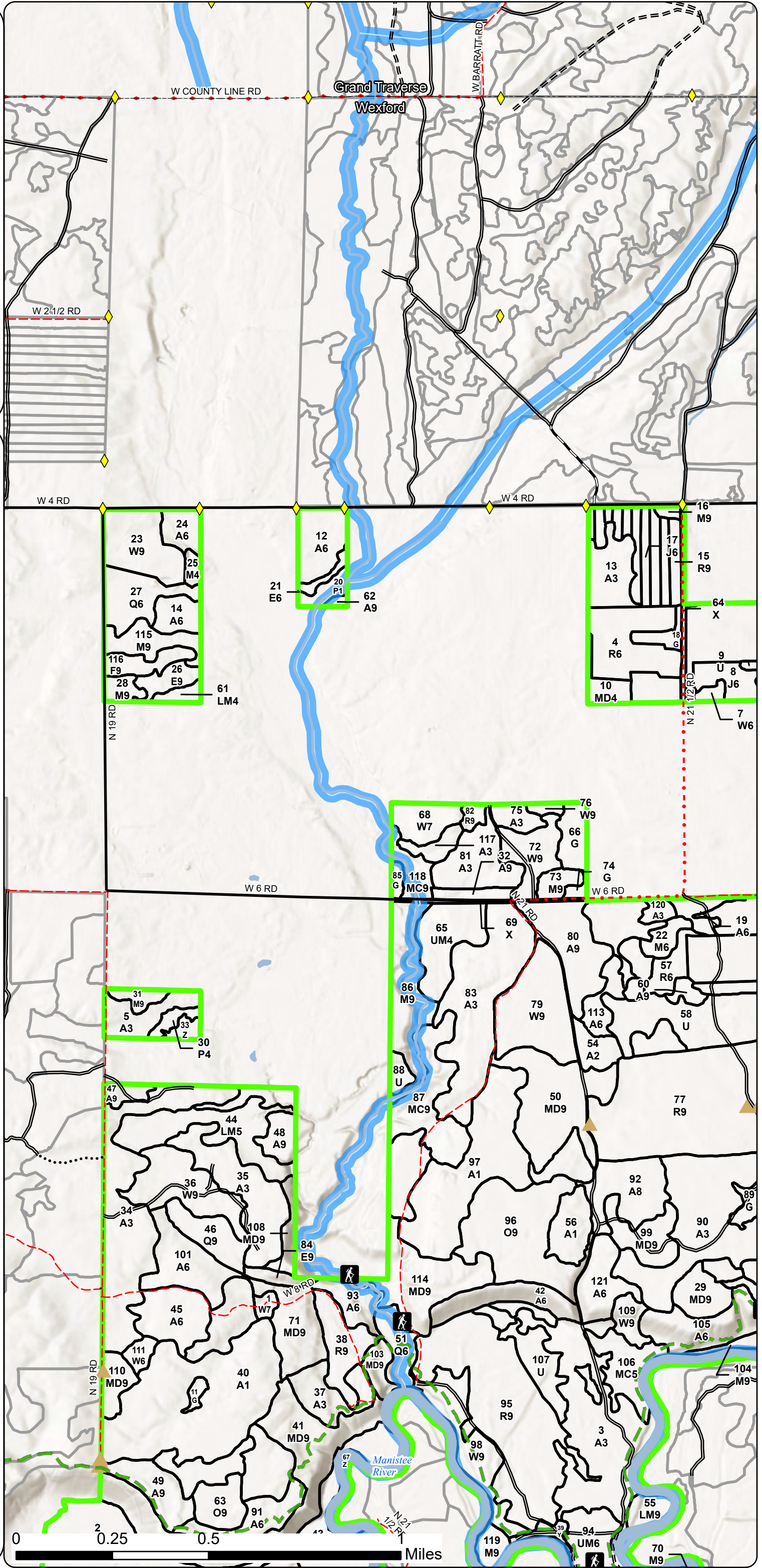
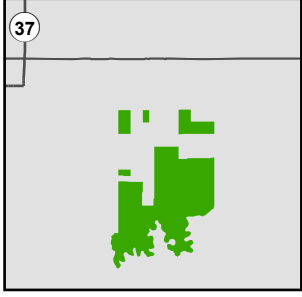


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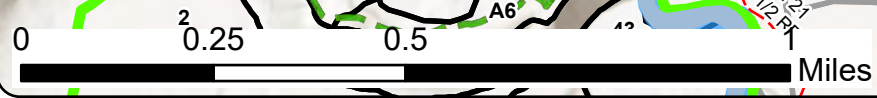


Special Conservation Areas & Site Conditions Map

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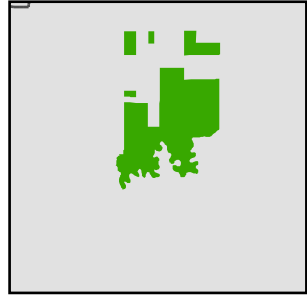


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- Compartment Boundary
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

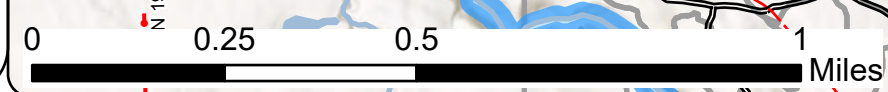
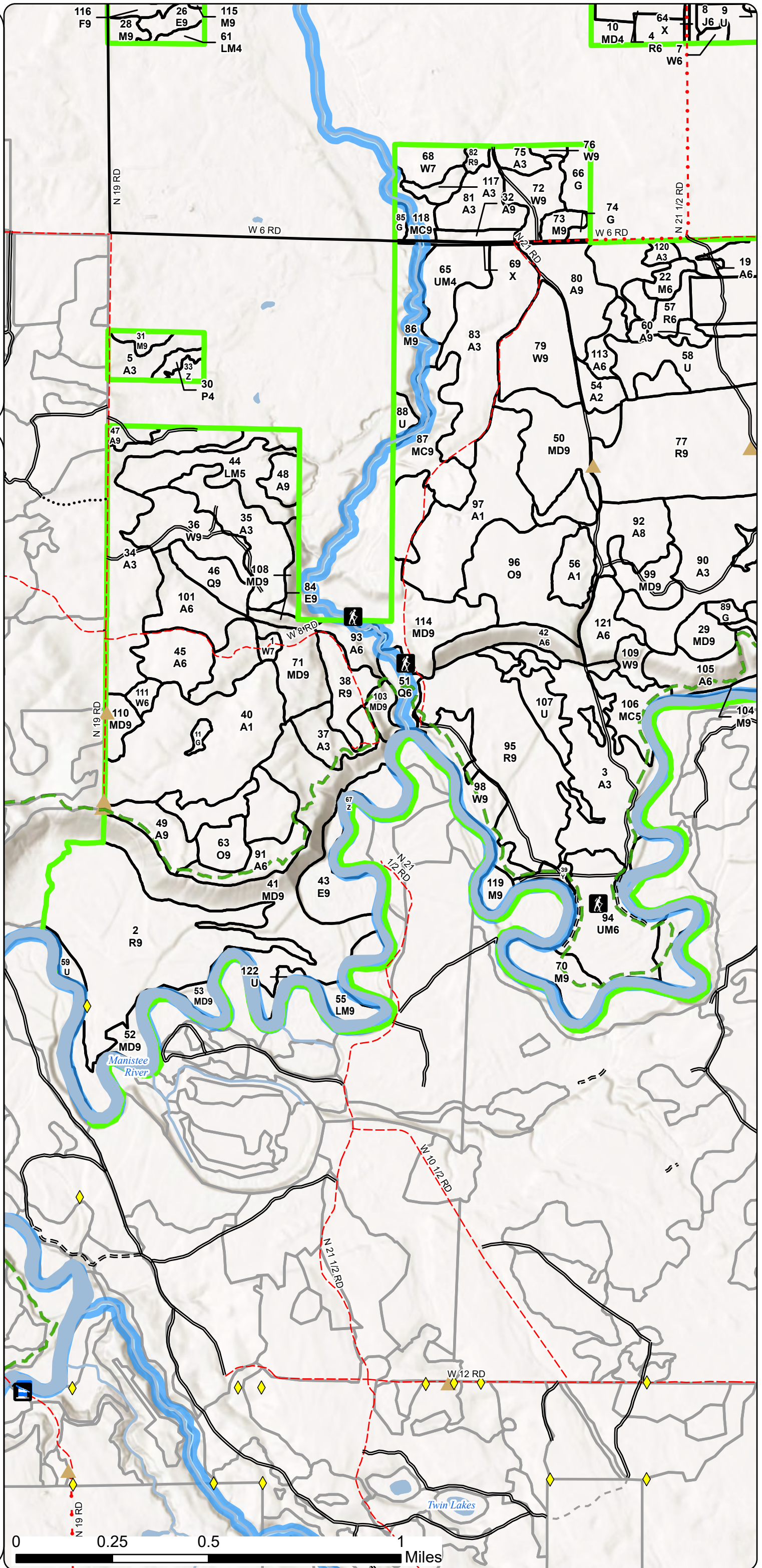


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- High Priority Trout Stream Buffer



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**

Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit
Joel Taylor: Examiner

Compartment 131 Year of Entry 2027

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	152	216	165	49	28	29	107	39	4	0	0	0	0	0	0	0	0	787
Herbaceous Openland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Jack Pine	0	0	0	10	0	0	15	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Lowland Aspen/Balsam Poplar	0	0	0	0	4	0	3	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	12	36
Lowland Deciduous	0	0	0	0	0	0	2	0	40	0	0	0	0	0	0	0	0	0	42
Lowland Mixed Forest	0	0	0	0	0	0	3	0	0	0	0	0	0	26	0	0	0	12	41
Mixed Upland Deciduous	0	0	0	0	0	0	13	102	54	23	0	27	0	0	0	0	0	20	239
Natural Mixed Pines	0	0	0	0	14	0	0	0	24	0	0	0	0	0	0	0	0	0	38
Northern Hardwood	0	0	0	2	0	10	4	0	10	43	0	0	0	0	0	0	0	30	99
Oak	0	0	0	0	0	0	0	0	0	0	10	41	0	0	0	0	0	0	51
Red Pine	0	0	0	0	89	0	0	305	56	0	0	0	0	0	0	0	0	0	450
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Conifers	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	0	0	0	0	0	57	0	0	0	0	0	0	0	0	0	57
Upland Shrub	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Upland Spruce/Fir	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110
White Pine	0	0	0	0	2	3	0	52	57	2	6	10	0	0	0	0	0	0	132
Total	268	152	216	177	158	41	69	580	337	72	16	78	0	50	0	0	0	74	2286

Report 2 – Treatment Summary

Cadillac Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 131
Total Compartment Acres: 2,284

Commercial Harvest - 1499
Harvests with Site Condition - 50
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	66	0	0	24	0	0	0	0	0	90
Herbaceous Openland	9	0	0	0	0	0	0	0	0	13
Jack Pine	15	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	30	0	0	0	0	0	0	0	0	30
Northern Hardwood	2	0	0	0	0	0	0	0	0	2
Red Pine	0	0	0	7	121	104	0	0	0	233
Upland Spruce/Fir	0	0	0	0	7	0	0	0	0	7
White Pine	0	0	0	0	20	4	0	0	0	24
Total	122	0	0	31	148	108	0	0	0	413

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	413	0	0	0	71	0	0	0	0	602
Next Step	0	353	303	193	183	515	488	0	77	2634
Total	413	353	303	193	255	515	488	0	77	3236

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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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Approved Treatments:

2	63131002-Cut	97.3	42110 - Planted Red Pine	9	69	111- 140	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Cutting Record	No
<p><u>Prescription</u> Retain 40-50 BA residual through designation of species and leave tree marking. Cut all other trees. Follow bmps of 60Ba in rmz. Regen protection spec, wood turtle spec (Harvest activities only during inactive season Oct 1-Mar 14 within 660 foot buffer, c</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, maple, pine, ash, hemlock, cherry, cedar, aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> This is adapted for visual considerations due to the Manistee river and NCT on the bluff above. Obliterate illegal orv trails along river. Use</p> <p><u>Comment:</u> stumps, slash and berms to close admin road and hill climb. Currently berms are eroded. Wood will need to be</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
4	63131004-Cut	47.4	42110 - Planted Red Pine	6	39	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> First thin red pine plantation. Cut one leave two through row thinning.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Rows run north/south and east west. A main skid may be needed where they meet. Survey request is in.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
7	63131007-Cut	4.0	42100 - Planted White Pine	6	61	141- 170	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No
<p><u>Prescription</u> Cut one leave two through row thinning.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Survey request is in. White pine will serve as a seed source for adjacent jack pine conversion.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
8	63131008-Cut	14.8	42120 - Planted Jack Pine	6	58	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<p><u>Prescription</u> Cut all jack pine. Do not harvest other species unless needed for operations.</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> maple, jack pine, white pine, cherry, oak, aspen</p> <p><u>Other Comment:</u> Survey request is in.</p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
9	63131009-Opening	25.5	320 - Upland Shrub	99			Openings Mgmt.	Openings Mgmt.	320 - Upland Shrub	Previous Inventory	No
<p><u>Prescription</u> Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush or trees, brush pile creation, planting shrubs or other</p> <p><u>Specs:</u> mast/cover species. Possible burn treatment.</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> 10/01/2026</p>											
15	63131015-Cut	15.5	42110 - Planted Red Pine	9	70	171- 200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Thin to 120BA focusing on removing high risk, poor form trees first. It appears a strip of red pine is on state forest but is mapped incorrectly.</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> A main skid to a landing will need to be made during sale admin. Survey request is in.</p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
18	63131018-Cut	3.8	310 - Herbaceous Openland	99			Harvest	Other Harvest - See Comments	320 - Upland Shrub	Previous Inventory	No
<p><u>Prescription</u> Cut all Scotch pine down to 2".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Native grasses, forbs, shrubs, trees.</p> <p><u>Other Comment:</u> Deck scale this unit. Spec 3.2.1</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
19	63131019-Cut	5.5	4130 - Aspen	6	68	51-80	Harvest	Seed Tree	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Cut all species greater than 2" at DBH except conifers. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> aspen, oak, maple, pine, elm, ash <u>Other Comment:</u> Grouse spec. Soft oak wilt. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
23	63131023-Cut	19.5	42100 - Planted White Pine	9	61	141-170	Harvest	Shelterwood	42201 - Natural White Pine, Mixed Deciduous	Cutting Record	No
<p><u>Prescription</u> Retain 50 BA through marking of leave trees and designation of species. Cut all other trees. Focus retention on crop trees with good bole form. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> white pine, maple, cherry, oak, aspen, hemlock <u>Other Comment:</u> Retention of 50BA is aimed at reducing susceptibility to white pine weevil damage. Ample regen of white pine and red maple in the understory. The stand should regenerate nicely. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
25	63131025-Cut	2.2	4117 - Mixed N. Hardwood - Pine	4	21	1-50	Harvest	Clearcut	320 - Upland Shrub	Previous Inventory	No
<p><u>Prescription</u> Cut all trees greater than 2" at DBH. Actual acreage may differ due to on the ground conditions. <u>Specs:</u> <u>Next Step</u> NonForestMgt, Brush Cutting <u>Treatments:</u> <u>Acceptable Regen:</u> Mix of native grasses, shrubs and trees. <u>Other Comment:</u> Maintaining the wildlife opening through a commercial harvest with adjacent white pine cut. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											
29	63131029-Cut	30.3	4199 - Other Mixed Upland Deciduous	9	73	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Cut all trees greater than 2" at DBH. No retention due to conversion to red pine. Require equipment cleaning when leaving this unit. Follow <u>Specs:</u> Natural Rivers MOU for bluff setback (50ft) <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Artificial Regen; Planting, Interplant; Pesticide, Aerial - Release; Pesticide, Aerial - Rel <u>Acceptable Regen:</u> red pine <u>Other Comment:</u> Treat with adjacent harvest and mastication for spraying. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026</p>											

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
38	63131038-Cut	24.1	42110 - Planted Red Pine	9	70	141-170	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Cutting Record	No
<p><u>Prescription</u> Shelterwood to 30 BA. Retain all hardwoods greater than 8" DBH, all white pine and leave tree mark red pine to meet BA.</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> Maple, oak, aspen, pine, cherry, fir, beech</p> <p><u>Other Comment:</u> One "origin" red pine along forest road to leave tree mark Wood turtle spec (660ft, consult WL bio). Oak wilt hard restriction. Trail protection spec.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
57	63131057-Cut	41.2	42110 - Planted Red Pine	6	39	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Cut red pine rows following a cut two leave four pattern. Main skids will need to be agreed to during operations as rows vary in direction.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</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> 10/01/2026</p>											
58	63131058-Burn	71.1	330 - Low-Density Trees	99			Burn	Prescribed Burn	320 - Upland Shrub	Previous Inventory	No
<p><u>Prescription</u> Burn on a 3-5 year cycle. Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush or trees, brush pile creation, planting shrubs or other mast/cover species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify; Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt.,</p> <p><u>Treatments:</u> Mowing; Burn, Opening; Openings Mgmt., Interseeding; Openings Mgmt., Disking/Plowing; Burn, Opening; Openings Mgmt.,</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> 10/01/2026</p>											
66	63131066-Opening	9.5	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	320 - Upland Shrub	Previous Inventory	No
<p><u>Prescription</u> Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush or trees, brush pile creation, planting shrubs or other mast/cover species. Possible burn treatment. Plant trees on edges of private boundary for boundary managem</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings</p> <p><u>Treatments:</u> Mgmt., Mowing; Openings Mgmt., Interseeding; Openings Mgmt., Disking/Plowing</p> <p><u>Acceptable Regen:</u> Grasses</p> <p><u>Other Comment:</u> Potential for old barb wire and steel drums in stand 66. Adjacent neighbor has found plenty of these in their adjacent 40, which was once part of the same farm (potatoes).</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2025</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
77 63131077-Cut	7.4	42110 - Planted Red Pine	9	66	81-110	Harvest	Seed Tree	4310 - Pine, Oak Mix	Cutting Record	No
<u>Prescription</u> Cut all red pine, aspen, beech, and red maple down to 2". Oak wilt spec.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable Regen:</u> pine, oak, maple, birch, aspen, ash, beech										
<u>Other Comment:</u> Stand should regenerate nicely to desired species. Good overstory of oak and white pine seed trees.										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
89 63131089-Cut	5.8	310 - Herbaceous Openland	99			Harvest	Clearcut	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Cut all trees greater than 2" at DBH. No retention due to size and invasives. Require equipment cleaning when leaving this unit.										
<u>Specs:</u>										
<u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Openings Mgmt., Grass/Forb										
<u>Treatments:</u> Planting; Pesticide, Aerial - Release; Openings Mgmt., Grass/Forb Planting										
<u>Acceptable Regen:</u> Native grasses, forbs and trees										
<u>Other Comment:</u> Treat with adjacent harvest and mastication for spraying. Coordinate between TMS and Biologist for spraying and forb planting timing.										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
89 63131089-Prep	4.9	310 - Herbaceous Openland	99			Site Prep-Mech.	Site Prep	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Clean equipment when leaving this unit.										
<u>Specs:</u>										
<u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Openings Mgmt., Grass/Forb										
<u>Treatments:</u> Planting; Pesticide, Aerial - Release; Openings Mgmt., Grass/Forb Planting										
<u>Acceptable Regen:</u> Native grasses, forbs and trees										
<u>Other Comment:</u> Time treatment with adjacent harvests for spraying and planting. Coordinate between TMS and Biologist for spraying and forb planting timing.										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2027										
90 63131090-Cut	16.3	4130 - Aspen	3	16	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Harvest all trees down to a 2" spec. No retention due to conversion to red pine. Require equipment cleaning when leaving this unit. Layout boundary to what is reasonable for a commercial harvest. Treatment shape and size will reflect actual ground condition										
<u>Specs:</u>										
<u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; Monitoring, Artificial Regen;										
<u>Treatments:</u> Monitoring, Artificial Regen; Planting, Interplant; Pesticide, Aerial - Release; Pesticide, Aerial - Rel										
<u>Acceptable Regen:</u> red pine										
<u>Other Comment:</u> Treat with adjacent harvest and mastication for spraying.										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										

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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
89 63131090-CutWL	3.4	310 - Herbaceous Openland	99			Harvest	Clearcut	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Cut all trees greater than 2" at DBH. No retention due to size and invasives. Require equipment cleaning when leaving this unit.										
<u>Specs:</u>										
<u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Openings Mgmt., Grass/Forb										
<u>Treatments:</u> Planting; Pesticide, Aerial - Release; Openings Mgmt., Grass/Forb Planting										
<u>Acceptable</u> Native grasses, forbs and trees										
<u>Regen:</u>										
<u>Other</u> Treat with adjacent harvest and mastication for spraying. Coordinate between TMS and Biologist for spraying and forb planting timing.										
<u>Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
90 63131090-Prep	45.6	4130 - Aspen	3	16	1-50	Site Prep-Mech.	Site Prep	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Site prep stand for red pine planting. Clean equipment when leaving this unit. Treatment shape and size will reflect actual ground										
<u>Specs:</u> conditions and may vary from proposed treatment.										
<u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; Monitoring, Artificial Regen;										
<u>Treatments:</u> Monitoring, Artificial Regen; Planting, Interplant; Pesticide, Aerial - Release; Pesticide, Aerial - Rel										
<u>Acceptable</u> red pine										
<u>Regen:</u>										
<u>Other</u> Time treatment with adjacent harvests for spraying and planting.										
<u>Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2027										
92 63131092-Cut	11.0	4133 - Aspen, Mixed Pine	8	66	1-50	Harvest	Clearcut	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Cut all trees greater than 2" at DBH. No retention due to invasives. Require equipment cleaning when leaving this unit.										
<u>Specs:</u>										
<u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Openings Mgmt., Grass/Forb										
<u>Treatments:</u> Planting; Pesticide, Aerial - Release; Openings Mgmt., Grass/Forb Planting										
<u>Acceptable</u> Native grasses, forbs and trees										
<u>Regen:</u>										
<u>Other</u> Improperly classified as long term retention last entry. Both stands are infested with Autumn Olive in the understory. Treat with adjacent										
<u>Comment:</u> harvest and mastication for spraying. Coordinate between TMS and Biologist for spraying and forb planting timing.										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
92 63131099-Cut	38.2	4133 - Aspen, Mixed Pine	8	66	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Cut all trees greater than 2" at DBH. No retention due to conversion to red pine. Require equipment cleaning when leaving this unit. Layout										
<u>Specs:</u> boundary to what is reasonable for a commercial harvest. Treatment shape and size will reflect actual ground condi										
<u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; Monitoring, Artificial Regen;										
<u>Treatments:</u> Monitoring, Artificial Regen (3yr); Planting, Interplant; Pesticide, Aerial - Release; Pesticide, Aerial										
<u>Acceptable</u> red pine										
<u>Regen:</u>										
<u>Other</u> Improperly classified as long term retention last entry. Both stands are infested with Autumn Olive in the understory. Conversion to red pine										
<u>Comment:</u> with herbicide application should slow spread locally. Treat with adjacent harvest and mastication for spraying										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										

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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
100 63131100-Prep	16.3	42110 - Planted Red Pine	6	73	171-200	Site Prep-Mech.	Site Prep	4211 - Planted Red Pine	Planting Record	No
<u>Prescription Specs:</u> Consumers red pine. Do not operate unless pine has been harvested. Site prep stand for red pine planting. Clean equipment when leaving this unit. Treatment shape and size will reflect actual ground conditions and may vary from proposed treatment.										
<u>Next Step Treatments:</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; Monitoring, Artificial Regen; Monitoring, Artificial Regen; Planting, Interplant; Pesticide, Aerial - Release; Pesticide, Aerial - Sit										
<u>Acceptable Regen:</u> red pine										
<u>Other Comment:</u> Time treatment with adjacent harvests for spraying and planting.										
<u>Site Condition:</u> Non-Military Lease/Easement										
<u>Proposed Start Date:</u> 10/01/2027										
101 63131101-Cut	18.5	4133 - Aspen, Mixed Pine	6	69	111-140	Harvest	Seed Tree	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription Specs:</u> Cut all trees except oak, red pine, birch. Additionally do not harvest white pine over 18" DBH. Leave tree mark additional trees to meet 6-8TPA residual if needed. Follow state BMPs where applicable.										
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Acceptable Regen:</u> aspen, oak, pine, maple, birch, cedar, basswood, hemlock										
<u>Other Comment:</u> Add drumming log, brush pile, and oak wilt (soft) restrictions. The goal is a long term transition towards a pine/oak stand. There is enough pine and oak regen that should survive or sprout post harvest to transition the stand. Red pine and birch are ve										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
107 63131107-Opening	15.7	320 - Upland Shrub	99			Openings Mgmt.	Openings Mgmt.	320 - Upland Shrub	Previous Inventory	No
<u>Prescription Specs:</u> Maintain as an opening. May include mowing, disking, fertilizing, planting, cutting brush or trees, brush pile creation, planting shrubs or other mast/cover species. Possible burn treatment.										
<u>Next Step Treatments:</u> Openings Mgmt., Herbicide; Seeding, Machine Seed; Seeding, Machine Seed; Openings Mgmt., Mowing; Openings Mgmt., Interseeding; Openings Mgmt., Disking/Plowing; Openings Mgmt., Herbicide										
<u>Acceptable Regen:</u>										
<u>Other Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										
116 63131116-Cut	7.1	42311 - Planted Spruce, Mixed Deciduous	9	63	111-140	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Cutting Record	No
<u>Prescription Specs:</u> Cut all white spruce, balsam fir, and aspen. Consider marking a handful of vigorous white spruce for retention for wildlife cover/diversity.										
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Acceptable Regen:</u> maple, cherry, pine, spruce, aspen, birch, hemlock, oak, balsam fir										
<u>Other Comment:</u>										
<u>Site Condition:</u>										
<u>Proposed Start Date:</u> 10/01/2026										

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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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Total Treatment Acreage Proposed: **601.9**

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joel Taylor: Examiner

Compartment: 131
Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		2I	5C	2F	2G	2H	3A	3E	3G	3J	5E
716	584	69	63	Aspen		69	35		2	7		9	6	4
28	28	0	0	Herbaceous Openland										
25	10	15	0	Jack Pine	15									
80	76	0	4	Low-Density Trees							4			
7	4	0	3	Lowland Aspen/Balsam Poplar				3						
35	0	0	35	Lowland Conifers			8	26				1		
28	8	0	20	Lowland Deciduous								16	3	
40	3	0	37	Lowland Mixed Forest				26				11		
197	82	41	74	Mixed Upland Deciduous		41	42					31	1	
13	0	0	13	Natural Mixed Pines								5	8	
92	31	0	61	Northern Hardwood					5			32	24	
12	10	0	2	Oak			2							
442	210	216	16	Red Pine	16	201					16			
2	0	0	3	Sand, Soil								3		
6	0	0	6	Upland Conifers									6	
56	19	25	13	Upland Mixed Forest		25						13		
41	41	0	0	Upland Shrub										
7	7	0	0	Upland Spruce/Fir										
6	6	0	0	Urban										
110	110	0	0	Water										
119	102	4	13	White Pine	4		4					10		
2,063	1,330	370	362	Total Forested Acres	34	336	91	55	7	7	16	133	49	4
	64%	18%	18%	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	2F: Too steep	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Stands occur on the Manistee River bluff							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joel Taylor: Examiner

Compartment: 131
Year of Entry: 2027

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar spruce swamp area							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment until a future date due to adjacent red pine harvest							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold until 2037 or 2047 YOE							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Steep areas along the Anderson Creek							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Small stand across Anderson Creek							
7	Unavailable	3A: Conservation values incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Access is possible but difficult. It would require a winter harvest with mats through the lowland stand to the West. A good stand to let natural succession and disturbance occur.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joel Taylor: Examiner

Compartment: 131
Year of Entry: 2027

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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joel Taylor: Examiner

Compartment: 131
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14	Unavailable	5E: Long-Term Retention	3	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							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is a cedar stand with a drainage flowing through the stand.							
17	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention/visual buffer for adjacent stand.							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	69	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Allow the understory to develop.							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joel Taylor: Examiner

Compartment: 131
Year of Entry: 2027

20	Unavailable	3G: Other influence zones - See comments	133	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	32	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
Comments: Hard to access hardwood stand along the river.							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2F: Too steep	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joel Taylor: Examiner

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Year of Entry: 2027

26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sleep slope that crosses onto private before meeting Anderson Creek.							
29	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is wet to the north and west							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	129	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep slopes along Anderson creek. A few seeps located throughout.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joel Taylor: Examiner

Compartment: 131
Year of Entry: 2027

32	Available	2I: Survey needed	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	2I: Survey needed	16	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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
1	42200 - Natural White Pine	Sawtimber Poor	2.2	36	1-50	N/A	Small area with pole and log trees. White pine and a few hardwoods beginning to seed into the stand.																																																																					
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2	42110 - Planted Red Pine	Sawtimber Well	97.3	69	111-140	N/A	Thinned in 1998 as part of 705 Red Pine (62-078-97)Thinned in the summer of 2014 (Down the Path Pine, 63-020-11). Growing well with desirable hardwood understory regen. Trace black cherry and oak in canopy. There are multiple decline pockets present and evidence of more forming. Some areas responded well with last thinning but most seemed to have little change in crown growth																																																																					
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3	4133 - Aspen, Mixed Pine	Sapling Well	56.4	23	51-80	N/A	Variable stand of mixed aspen, pine. Old red pine strips appear to be plantation origin. Pockets of scattered large white pine and oak. Regeneration is better in the north than in the south.																																																																					
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4	42110 - Planted Red Pine	Poletimber Well	47.4	39	141-170	N/A	Planted red pine adjacent to private to the west. Stand is closing in and growing well. Avg 25' height.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
5	4130 - Aspen	Sapling Well	10.9	36	51-80	N/A	Small unmapped pocket of cedar in the SW of stand. Trace amounts of white and red oak. The ground becomes hummocky in the southern portion			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		5	Pole/Sapling	6		Black Cherry		Trace	Variable	Variable
Red Maple		10		6		Ironwood		Trace	< 5 feet	< 5 feet
Red Oak		1	Log	12		Beech		Low	Variable	Variable
Quaking Aspen		79		8	36	Sugar Maple		Medium	Variable	Variable
Black Cherry		5	Pole/Sapling	6		Red Maple		Low	Variable	Variable
6	4130 - Aspen	Poletimber Well	18.0	38	81-110	N/A	Young aspen that is growing well. Oak is concentrated in the northern portion. Cut as part of North 23 Road (62-059-87)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Sapling/Pole	4		Red Maple		Low	Variable	Variable
Red Oak		5	Sapling/Pole	3		Autumn Olive		Trace	5 - 10 feet	5 - 10 feet
Quaking Aspen		10	Pole	7		White Pine		Trace	Variable	Variable
Bigtooth Aspen		75	Pole	7	38	Black Cherry		Medium	Variable	Variable
7	42100 - Planted White Pine	Poletimber Well	4.0	61	141-170	N/A	Previous inventory cites this as an experimental plantation done by MSU in 1965. Attempted to improve vertical growth by maintain high BA.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		100	Log/Pole	12	61					
8	42120 - Planted Jack Pine	Poletimber Well	14.8	58	51-80	N/A	Jack pine stand that is falling apart. Mixed with cherry, white pine and red maple. Previous inventory indicated an experimental planting done by MSU in 1968.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		5	Pole	7						
White Pine		5	Pole/Sapling	5						
Jack Pine		85	Pole/Sapling	7	58					
Black Cherry		5	Pole/Sapling	6						
9	320 - Upland Shrub	None	25.5			No	Stand of upland brush with scattered trees throughout.			
Sub-Canopy Species		Density	Avg. Height	Size						
Red Maple		Low	>20 feet	>20 feet						
White Pine		Low	Variable	Variable						
Jack Pine		Low	Variable	Variable						
Black Cherry		Low	Variable	Variable						
Quaking Aspen		Low	>20 feet	>20 feet						
Autumn Olive		Low	5 - 10 feet	5 - 10 feet						
10	4199 - Other Mixed Upland Deciduous	Poletimber Poor	5.3	56	1-50	N/A	Serves as a different cover surrounded by pine types. A few scattered maples throughout. Appears to be having a Dutch elm disease outbreak. Poor regen outside of exotic species			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	6		Black Cherry		Low	< 5 feet	< 5 feet
Black Cherry		40	Pole	8	56	Autumn Olive		Low	5 - 10 feet	5 - 10 feet
Rock Elm		55	Pole/Log	9	56	Red Pine		Trace	Variable	Variable
11	310 - Herbaceous Openland	None	1.8			No	Grass opening. It appears this stand was used as a landing during adjacent harvest.			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
12	4130 - Aspen	Poletimber Well	13.7	38	1-50	N/A	No apron access on 4rd. The stand transitions to a wet area toward the south along Anderson creek. Average quaking aspen quality.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	5	Pole/Sapling	6		Balsam Fir	Medium	Variable	Variable
	Quaking Aspen	80	Pole/Sapling	6	38	White Pine	Trace	< 5 feet	< 5 feet
	Balsam Fir	5	Sapling/Pole	4					
	White Pine	2	XLog/Log	20					
	Hemlock	3	Log	14					
	Black Cherry	5	Pole	8					
13	4130 - Aspen	Sapling Well	13.5	16	1-50	N/A	Stand was cut as part of Richards Pine/Aspen (63-002-07). All aspen, red maple, and ironwood was spec cut.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	10	Log	14		Ironwood	Low	Variable	Variable
	Sugar Maple	5	Sapling	3		Beech	Trace	Variable	Variable
	Bigtooth Aspen	85	Sapling	3	16				
14	4136 - Aspen, Mixed Conifer	Poletimber Well	7.0	50	51-80	N/A	Wet hummocky stand with pockets of windthrow. Upland relative to stand 27 but may have a clay lens below keeping it saturated.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	10	Pole	6		White Ash	Low	< 5 feet	< 5 feet
	Yellow Birch	5	Pole/Sapling	6		Red Maple	Low	10 - 20 feet	10 - 20 feet
	Quaking Aspen	60	Pole	7	50	Balsam Fir	Low	Variable	Variable
	Balsam Fir	15	Pole/Sapling	5		Elm (Spp.)	Low	>20 feet	>20 feet
	White Pine	10	Log	14					
15	42110 - Planted Red Pine	Sawtimber Well	15.5	70	171-200	N/A	Strips are of varying density, higher in the westernmost two and generally higher the further north. Stand was thinned in 2009 (Richards Pine/Aspen, 63-002-07).		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	2	XLog/Log	20		Red Pine	Low	Variable	Variable
	Red Pine	98	Log/Pole	12	70	Beech	Low	Variable	Variable
						Sugar Maple	Low	Variable	Variable
						Bigtooth Aspen	Low	Variable	Variable
16	4110 - Sugar Maple Association	Sawtimber Well	1.3	85	81-110	N/A	Small pocket of hardwood at edge of red pine strips. Good seed source for adjacent strips		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	70	Log	14	85	Ironwood	Low	Variable	Variable
	Sugar Maple	5	XLog	20		Beech	Low	Variable	Variable
	Red Maple	15	Log/Pole	10		White Pine	Trace	10 - 20 feet	10 - 20 feet
	Basswood	5	Log	14		Sugar Maple	Low	Variable	Variable
	Beech	5	Log	16					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
17	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	9.9	21	1-50	N/A	Stand was planted in some areas to red pine last entry. Mix of red pine, aspen, and red maple, with scattered beech and jack pine.																																																																			
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18	310 - Herbaceous Openland	None	3.8			No	Mostly open land/grass that extends into the red pine plantation to the west. Scattered trees.																																																																			
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19	4130 - Aspen	Poletimber Well	5.5	68	51-80	N/A	Older aspen stand that is increasing in senescence.																																																																			
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20	6112 - Lowland Aspen	Sapling Poor	4.1	36	1-50	N/A	Stand contains Anderson Creek. Wet, lowland mix with sensitive soils																																																																			
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21	6118 - Lowland Deciduous with Cedar	Poletimber Well	2.3	51	51-80	N/A	Lowland conifers with mixed aspen/hardwood. Aspen has a pole and log class.																																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	4110 - Sugar Maple Association	Poletimber Well	4.9	46	81-110	N/A	Two aged sugar maple stand with good understory sapling recruitment. Absent seedling layer		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		20	Log/XLog	16	78	Beech	Low	Variable	Variable
Sugar Maple		55	Pole	9	46	Ironwood	Medium	>20 feet	>20 feet
Basswood		15	Log/Pole	13		Sugar Maple	Medium	>20 feet	>20 feet
Red Oak		5	Log	15					
Black Cherry		5	Pole	8					
23	42100 - Planted White Pine	Sawtimber Well	19.5	61	141-170	N/A	White pine was thinned in 2012 (Daysworth Pine, 63-028-09). Abundant white pine and red maple regen in the understory with heavy deer browse on hardwood regen		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		3	Log	10		White Pine	High	< 5 feet	< 5 feet
White Pine		95	Log/Pole	10	61	Sugar Maple	Trace	< 5 feet	< 5 feet
Black Cherry		2	Pole/Log	9		Red Maple	High	< 5 feet	< 5 feet
						Ironwood	Trace	< 5 feet	< 5 feet
						Beech	Low	5 - 10 feet	5 - 10 feet
						White Ash	Trace	< 5 feet	< 5 feet
24	4130 - Aspen	Poletimber Well	6.7	35	51-80	N/A	Mixed stand of aspen maple and conifer. Western part of stand is more upland with lowland hummocky to the east where cedar and hemlock are present. Cut in 1991 as part of No. 19 Road #2 sale (62-055-87). All cedar, hemlock and oak was left.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		7	Pole/Sapling	6		White Pine	Low	< 5 feet	< 5 feet
Quaking Aspen		75	Pole/Sapling	6	35	Hawthorn (spp.)	Trace	5 - 10 feet	5 - 10 feet
Balsam Fir		10	Pole	8		Red Maple	Low	5 - 10 feet	5 - 10 feet
Tamarack		5	Pole	8					
White Pine		3	XLog/Log	20					
25	4117 - Mixed N. Hardwood - Pine	Poletimber Poor	2.2	21	1-50	N/A	Somewhat open area with scattered aspen and white pine seedlings. Ample sign of past human activity		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Pole/Sapling	7	21	Balsam Fir	Trace	5 - 10 feet	5 - 10 feet
White Pine		25	Pole/Sapling	5		White Pine	Medium	5 - 10 feet	5 - 10 feet
Black Cherry		50		7	21	Beech	Low	5 - 10 feet	5 - 10 feet
						Quaking Aspen	Low	10 - 20 feet	10 - 20 feet
						Autumn Olive	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 6.1 75 81-110 N/A aspen occurs mostly along the edge of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	50	Log/Pole	11	75
Yellow Birch	5	Pole/Log	9	
Balsam Fir	10		6	31
Northern White Cedar	10	Pole/Log	8	
White Pine	5	Log/XLog	14	
Hemlock	10	Pole/Log	8	
Black Cherry	10	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable
Beech	Low	Variable	Variable
Sugar Maple	Trace	Variable	Variable

27 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 14.9 125 51-80 N/A Small creek flows through the stand

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	8	
Quaking Aspen	20	Pole	7	
Balsam Fir	20	Pole/Log/Sap	8	
Northern White Cedar	35	Pole/Log/Sap	7	125
Hemlock	5	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
Northern White Cedar	Low	Variable	Variable

28 4112 - Maple, Beech, Cherry Association Sawtimber Well 4.0 58 81-110 N/A Decent stand of mostly single stemmed trees. Ground transitions to a wetter stand to the west, and some hummocks occur.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole/Sapling	6	
Red Maple	59	Log/Pole	10	58
White Pine	1	XLog	25	
Black Cherry	35	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	>20 feet	>20 feet
Sugar Maple	Low	Variable	Variable
Red Maple	Low	Variable	Variable
Ironwood	Low	< 5 feet	< 5 feet

29 4199 - Other Mixed Upland Deciduous Sawtimber Well 14.4 73 51-80 N/A Stand was treated in 2012/2013 (23 HDWDS, 63-074-09). All ash was removed due to EAB infestation. All jack pine and aspen was spec cut.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Log/Pole	14	
Red Maple	5	Pole	8	
Basswood	20	Pole/Log	9	
Red Oak	30	Log/Pole	13	73
Red Oak	15	XLog	22	
Bigtooth Aspen	10	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Musclewood/Hornbeam	Medium	Variable	Variable
Ironwood	High	5 - 10 feet	5 - 10 feet
Autumn Olive	Medium	5 - 10 feet	5 - 10 feet
Sugar Maple	Low	>20 feet	>20 feet
Red Oak	Low	>20 feet	>20 feet

30 6112 - Lowland Aspen Poletimber Poor 3.1 53 1-50 N/A transitional area between aspen stand and beaver flooding. Shows signs of activity.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole/Sapling	6	
Bigtooth Aspen	40	Pole/Sapling	5	53
White Pine	35	Log/Pole	11	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
31	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	3.7	87	81-110	N/A	Mixed hardwoods with aspen. Decent sapling class of maple coming up in the understory																																																			
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Red Maple	Low	Variable	Variable																																																							
33	500 - Water	None	2.7			No	Seasonal beaver flooding																																																			
34	4130 - Aspen	Sapling Well	59.4	18	1-50	N/A	This stand was harvested in the summer of 2008 (19 Aspen Pieces, 63-019-07) and was a tree length operation and chipper. Oak and cherry were spec'd as residual leave trees. A few residual white pine were left. Growing well, this is one stand from a multi stand sale. Stand is adjacent to 19 rd.																																																			
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35	4130 - Aspen	Sapling Well	27.1	19	1-50	N/A	Young aspen stand that was treated in 2008 (19 Aspen Pieces, 63-019-07) with scattered residual over story oak left.																																																			
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36	42200 - Natural White Pine	Sawtimber Well	22.8	76	81-110	N/A	The stand was harvested in 2008 (19 Aspen Pieces, 63-019-07) with all maple and aspen being removed along with a portion of the white pine over story. A few spots of lowland in the northern portion of the stand. Good understory regen and development.																																																		
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37	4130 - Aspen	Sapling Well	13.2	28	1-50	N/A	The NCT runs through the stand. Cut in the North Country Aspen sale. #093 1997																																																		
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38	42110 - Planted Red Pine	Sawtimber Well	24.1	70	141-170	N/A	Red pine stand along a creek bluff. Minor amounts of aspen and other hardwoods also present. There are decline pockets scattered in the stand with heavy deer browse. Overall the red pine has not responded to the last thinning. Thinned in Nottingham Red Pine (62-092-97) in 1998. Thinned as part of Downhill Pine (63-014-07) in 2009. Second thinning.																																																		
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39	710 - Sand, Soil	None	3.0			No	Popular camping site along the river. Two track runs along bluff. A "donut" spot for utv's is present and adding erosion down the bluff.																																																		
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40	4131 - Aspen, Oak	Sapling Poor	69.4	5	Immature	N/A	Stand was final harvested in winter 2021/22 with oak under 6 inches left along with white pine saplings as well. Will be mixed oak/aspen/maple/white pine. (Wexford County Classic, 63-028-17). Heavy deer browse on new tree stems. Great sprouts from harvested maple and oak. Better regen in western half than the eastern half.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41 4199 - Other Mixed Upland Deciduous Sawtimber Well 82.1 61 81-110 N/A

Stand of oak that occurs along the bluff to the Manistee River. Area at foot of slope is a variable mix of species. The slope is mostly oak and aspen. Area on top of the bluff tends towards mature oak with maple and aspen mixed.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	XLog/Log	18	
Red Maple	10	Log/Pole	10	
Red Oak	40	Log/Pole	12	61
White Oak	15	Log/Pole	12	
Bigtooth Aspen	20	Pole/Log	9	
White Pine	5	Log/Pole	14	
Red Pine	5	Log/Pole	12	

42 4131 - Aspen, Oak Poletimber Well 13.8 46 81-110 N/A

Stand occurs on a steep bluff and ridgetop.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	25	Log/XLog/Pole	16	
White Oak	5	Pole/Log	9	
Bigtooth Aspen	60	Pole/Log	7	46
White Pine	5	Pole/Log	8	
Red Pine	5	Log/Pole	10	

43 6118 - Lowland Deciduous with Cedar Sawtimber Well 30.2 77 81-110 N/A

A variable mixed stand with pockets of quality and large diameter trees. Seasonally wet throughout, ash and elm have fallen out of the stand but remain as snags. Appears to have a higher incidence of nectria canker than most stand. A few scattered yellow birch near the river.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	10		Ironwood	Medium	Variable	Variable
Sugar Maple	10	XLog	18		Hawthorn (spp.)	Medium	5 - 10 feet	5 - 10 feet
Red Maple	5	XLog/Log	18		Black Locust	Low	Variable	Variable
Basswood	5	Log	17		Musclewood/Hornbeam	Trace	Variable	Variable
Basswood	10	Pole	9		Ash (spp.)	Low	Variable	Variable
White Oak	5	Pole	6					
Quaking Aspen	15	Log/Pole	12					
Bigtooth Aspen	20	Log/Pole	15	77				
Northern White Cedar	10	Log	12					
Northern White Cedar	10	Pole	7					
Hemlock	5	Log/Pole	14					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 25.8 129 51-80 N/A Cedar and balsam fir with scattered large white pine and red maple. Flowing water is present during wet seasons. Some scattered blow down.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Log/Pole	13		Northern White Cedar	Low	Variable	Variable
Red Maple	25	Log/Pole/XLog	13		Sugar Maple	Trace	Variable	Variable
Yellow Birch	8	Log/Pole	13		Red Maple	Low	Variable	Variable
Basswood	5	Log/Pole	16		Basswood	Low	Variable	Variable
Quaking Aspen	2	Log/Pole	14		White Ash	Trace	Variable	Variable
Northern White Cedar	40	Pole/Sap/Log	8	129	Black Ash	Low	Variable	Variable
White Pine	8	Log/XLog/Pole	13		Musclewood/Hornbeam	Low	Variable	Variable
Hemlock	10	Pole	8		Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
					Cattail spp.	Low	Not Applicable	Not Applicable

45 4130 - Aspen Poletimber Well 16.3 63 81-110 N/A Relatively flat stand with multiple height levels present under canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	10		White Pine	Medium	Variable	Variable
Red Oak	15	Log/Pole/XLog	15		White Oak	Trace	Variable	Variable
Quaking Aspen	4	Pole	9		Serviceberry (Juneberry)	Trace	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	60	Log/Pole	10	63	Red Maple	Low	Variable	Variable
White Pine	5	Log/Pole	11		Beech	Low	Variable	Variable
Red Pine	1	Log/Pole/XLog	14		Red Oak	Low	Variable	Variable

46 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 11.5 125 111-140 N/A Lowland pocket that is seasonally flooded. Ephemeral stream leaves the stand in the Southeast. Windthrow mounds throughout. Trace amounts red pine, oak on edges

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log/Pole	12		Yellow Birch	Low	>20 feet	>20 feet
Yellow Birch	5	Log/Pole	10		Northern White Cedar	Low	>20 feet	>20 feet
Basswood	5	Log/Pole	10		Hemlock	Low	>20 feet	>20 feet
Northern White Cedar	40	Pole/Log	9	125				
White Pine	25	Log/Pole/XLog	16	113				
Hemlock	10	Log/Pole	12					

47 4139 - Aspen, Mixed Deciduous Sawtimber Well 3.8 85 81-110 N/A This stand was left following the adjacent timber sale. Abandoned wood ground blind in northeastern corner. Sugar maple understory developing in western half.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole/Log	7		Ironwood	Low	Variable	Variable
American Elm	5	Log	12		Beech	Medium	Variable	Variable
Red Maple	15	Pole/Log	8		Sugar Maple	Medium	Variable	Variable
Basswood	5	Log/Pole	12		Red Maple	Low	Variable	Variable
Beech	5	Log/Pole	11		Bigtooth Aspen	Low	Variable	Variable
Quaking Aspen	27	Log/Pole	14	85				
Bigtooth Aspen	25	Log/Pole	14					
White Pine	3	Log/XLog	13					
Black Cherry	5	Log/Pole	13					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
48	4130 - Aspen	Sawtimber Well	12.0	68	111-140	N/A	There are areas of seasonally wet conditions. A steep area with a creek separates the two portions of the stand. The southern portion is surrounded by adjacent lowland complex. The northern portion contains steep slopes with flowing creek drainages and has generally hummocky ground. There are two small areas of blowdown, ~15 years ago, with good aspen regen.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	3	Log/Pole	12		Quaking Aspen	Medium		>20 feet	>20 feet
Red Maple	20	Log/Pole	13		Ironwood	Low		Variable	Variable
Basswood	10	Log/Pole	14		White Pine	Low		Variable	Variable
Red Oak	2	Log/Pole	14		Beech	Trace		< 5 feet	< 5 feet
Quaking Aspen	50	Log/Pole	10	68	Hemlock	Trace		Variable	Variable
Bigtooth Aspen	10	Log/Pole	12	68	Sugar Maple	Low		Variable	Variable
White Pine	2	Log/Pole	12		Red Maple	Medium		Variable	Variable
White Pine	2	XLog	32						
Red Pine	1	XLog/Log	22						
49	4131 - Aspen, Oak	Sawtimber Well	25.4	63	111-140	N/A		This stand occurs above the bluff leading to the Manistee River. Aspen transitions from dense the western portion to a more maple oak aspen stand in the east. Oak throughout the stand suggests a period of open growth. A few red pine are "origin" stock. NCT runs through the stand along the bluff.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Maple	15	Log/Pole	10		Red Maple	Low	Variable		Variable
Red Oak	15	XLog/Log	18		White Oak	Low	Variable		Variable
Red Oak	10	Pole	8		Ironwood	Low	Variable		Variable
White Oak	5	Log	16		White Pine	Trace	Variable		Variable
Bigtooth Aspen	45	Log/Pole	11	63	Beech	Low	Variable		Variable
White Pine	9	Log/Pole	12		Red Oak	Medium	Variable		Variable
Red Pine	1	Pole	8						
50	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	34.7	73	81-110	N/A	aspen and oak with white pine throughout.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	10	Log/Pole	12		Red Oak	Low	>20 feet	>20 feet	
Red Oak	25	Log/Pole/XLog	15		White Pine	Medium	Variable	Variable	
Bigtooth Aspen	35	Log/Pole	13	73	Red Maple	Low	Variable	Variable	
White Pine	25	Log/Pole/XLog	14		Ironwood	Medium	Variable	Variable	
Red Pine	5	Log/XLog/Pole	16		Witch Hazel	Low	5 - 10 feet	5 - 10 feet	
51	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.0	125	51-80	N/A	Stand contains Anderson Creek		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	10	Pole	6		Balsam Fir	Low	Variable	Variable	
Red Oak	5	Log/XLog/Pole	16		White Pine	Low	Variable	Variable	
Quaking Aspen	10	Log/Pole	13		Beech	Low	Variable	Variable	
Northern White Cedar	35	Pole/Log/Sap	9	125	Northern White Cedar	Low	Variable	Variable	
White Pine	10	Log/Pole	12		Hemlock	Low	>20 feet	>20 feet	
Hemlock	30	Log/Pole	12						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 14.0 42 81-110 N/A Northern hardwoods on the flood plain several feet above the river with mixed conifers. Size and density varies across the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	XLog	20	
Sugar Maple	10	Log	14	
Basswood	8	Log	16	
Red Oak	10	XLog	20	92
Red Oak	5	Log/Pole	12	
White Oak	20	Pole	8	42
Paper Birch	5	Pole	9	
Quaking Aspen	5	Log/Pole	12	
Balsam Fir	1	Log/Pole	10	
Black Spruce	1	Pole	8	
Northern White Cedar	5	Pole	9	
White Pine	10	Log	12	
Red Pine	5	Pole	7	
Black Cherry	3	Pole	8	
Ironwood	5	Pole/Sapling	6	
Musclewood/Hornbeam	2	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	5 - 10 feet	5 - 10 feet
White Ash	Low	5 - 10 feet	5 - 10 feet
Black Cherry	Medium	5 - 10 feet	5 - 10 feet
Hawthorn (spp.)	Medium	5 - 10 feet	5 - 10 feet

53 4190 - Mixed Upland Deciduous with Cedar Sawtimber Well 6.2 109 81-110 N/A Stand consists of N.hwds w/some large dia. cedar on the flood plain several feet above the river.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole/Sapling	5	
Sugar Maple	16	XLog	24	109
Yellow Birch	5	Log/Pole	10	
Basswood	14	Log/Pole	12	62
Red Oak	10	Log	14	
Northern White Cedar	10	Log	16	109
Northern White Cedar	15	Pole	7	
Hemlock	5	Log	12	62
Black Cherry	5	Pole	9	
Ironwood	15	Pole/Sapling	6	22

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	< 5 feet	< 5 feet
Black Locust	High	5 - 10 feet	5 - 10 feet
Hawthorn (spp.)	Medium	5 - 10 feet	5 - 10 feet

54 4131 - Aspen, Oak Sapling Medium 6.9 5 Immature N/A Stand was final harvested and chipped in 2021. Heavy deer browse on oak regen

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	
Red Oak	25	Sapling	1	
Bigtooth Aspen	70	Sapling	1	5

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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55 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 11.5 116 51-80 N/A Mixed hardwood/cedar stand along river that is seasonally flooded. Abundant winter deer sign and ironwood understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	12		Black Locust	Low	< 5 feet	< 5 feet
Basswood	15	XLog/Log	18	91	White Ash	Medium	< 5 feet	< 5 feet
Basswood	12	Pole	8	41	Musclewood/Hornbeam	Low	Variable	Variable
Paper Birch	2	Pole	7		Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet
Balsam Poplar	10	Log/Pole	11					
Northern White Cedar	20	Pole	9					
Northern White Cedar	20	Log/XLog	17	116				
White Pine	1	XLog/Log	20					
Rock Elm	5	Pole/Log	8					
Ironwood	5	Pole/Sapling	5					

56 4131 - Aspen, Oak Sapling Poor 11.0 5 Immature N/A Stand of red oak that occurs on top of the bluff leading down to the Manistee river. Small portion of parent stand was cut. Stand was final harvested and chipped in 2021. (Wexford County Classic, 63-028-17)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	1		Autumn Olive	Trace	5 - 10 feet	5 - 10 feet
Red Oak	45	Sapling	1	5				
White Oak	5	Sapling	1					
Bigtooth Aspen	40	Sapling	1	5				
Black Cherry	5	Sapling	1					

57 42110 - Planted Red Pine Poletimber Well 41.2 39 141-170 N/A Red pine stand planted in the spring of 1987.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	1	Log/Pole	12		Red Maple	Low	Variable	Variable
Red Pine	97	Pole/Log	8	39	White Ash	Trace	5 - 10 feet	5 - 10 feet
Black Cherry	2	Pole/Log	9		Ironwood	Low	Variable	Variable
					Autumn Olive	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58 330 - Low-Density Trees None 71.1 Yes Upland brush stand that should be burnt to promote native grasses and set back woody debris.

Sub-Canopy Species	Density	Avg. Height	Size
Basswood	Trace	>20 feet	>20 feet
White Pine	Low	>20 feet	>20 feet
Jack Pine	Low	>20 feet	>20 feet
Black Cherry	Low	>20 feet	>20 feet
Scotch Pine	Trace	10 - 20 feet	10 - 20 feet
Hawthorn (spp.)	Trace	5 - 10 feet	5 - 10 feet
Sugar Maple	Trace	>20 feet	>20 feet
Red Maple	Low	>20 feet	>20 feet
Quaking Aspen	Low	>20 feet	>20 feet
Ironwood	Trace	10 - 20 feet	10 - 20 feet
Autumn Olive	Medium	5 - 10 feet	5 - 10 feet
Juniper	Trace	5 - 10 feet	5 - 10 feet
Black Raspberry	Low	5 - 10 feet	5 - 10 feet
American Elm	Trace	>20 feet	>20 feet
White Oak	Trace	>20 feet	>20 feet

59 330 - Low-Density Trees None 2.9 No Mixed hardwoods and conifer along the banks of the Manistee river

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	>20 feet
White Oak	Low	>20 feet	>20 feet
Northern White Cedar	Low	>20 feet	>20 feet
White Pine	Low	>20 feet	>20 feet
Black Cherry	Medium	>20 feet	>20 feet
Scotch Pine	Low	>20 feet	>20 feet

60 4130 - Aspen Sawtimber Well 4.5 72 81-110 N/A Two small aspen areas adjacent to a managed wildlife opening

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	9	
Quaking Aspen	20	Log/Pole	10	
Bigtooth Aspen	60	Log/Pole	11	72
White Pine	5	Log/Pole	13	
Black Cherry	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	>20 feet	>20 feet
Ironwood	Low	Variable	Variable
Autumn Olive	Low	5 - 10 feet	5 - 10 feet

61 6132 - Mixed Lowland Forest with Cedar Poletimber Poor 3.0 51 1-50 N/A Wet area that appears to have been heavily effected by EAB. Some windthrow across the site and cattails present in spots.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Pole	7	
Yellow Birch	10	Pole	8	
Northern White Cedar	50	Pole	8	51

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	Variable	Variable
Ash (spp.)	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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62 4133 - Aspen, Mixed Pine Sawtimber Well 0.9 61 81-110 N/A Small stand across Anderson creek.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole	7	
Bigtooth Aspen	40	Log	12	61
Northern White Cedar	10	Log/Pole	10	
White Pine	25	Log/Pole	15	

63 4124 - Red with White Oak Sawtimber Well 9.8 96 111-140 N/A Stand of mature oak surrounded by younger aspen and pine plantings.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	13		White Oak	Low	Variable	Variable
Red Oak	65	XLog/Log	20	96	Red Oak	Low	Variable	Variable
Red Oak	5	Pole	9		Sugar Maple	Low	Variable	Variable
White Oak	5	Pole	9		Red Maple	Medium	Variable	Variable
White Oak	20	Log	14					

64 122 - Road/Parking Lot None 3.4 No N 21 1/2 Rd

65 4311 - Pine, Aspen Mix Poletimber Poor 18.6 73 1-50 N/A Jack pine stand that is scensing and converting to a maple, oak, pine mix.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole	7		Quaking Aspen	Low	Variable	Variable
Red Maple	15	Sapling/Pole	4		Ironwood	High	Variable	Variable
Bigtooth Aspen	15	Log/Pole	12		Beech	Low	Variable	Variable
Black/Red (Hybrid) Oak	5	Pole/Log	9		Black/Red (Hybrid) Oak	Low	Variable	Variable
White Pine	10	Pole/Log	9		White Pine	Low	Variable	Variable
Jack Pine	45	Pole/Log	9	73	Black Cherry	Low	Variable	Variable
Black Cherry	5	Log/Pole	11		White Ash	Low	Variable	Variable
					Musclewood/Hornbeam	Low	Variable	Variable
					Sugar Maple	Low	Variable	Variable
					Red Maple	Full	Variable	Variable
					Bigtooth Aspen	Low	Variable	Variable
					White Oak	Low	Variable	Variable

66 310 - Herbaceous Openland None 7.8 No Old field seeding in with white pine

Sub-Canopy Species	Density	Avg. Height	Size
Autumn Olive	Trace	5 - 10 feet	5 - 10 feet
White Pine	Low	10 - 20 feet	10 - 20 feet
Black Cherry	Trace	>20 feet	>20 feet

67 500 - Water None 107.3 No Manistee River

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68 42200 - Natural White Pine Sawtimber Poor 9.9 109 1-50 N/A Stand was cut in 2018 (Anderson Creek Aspen, 63-024-17), pine was marked to cut while all hardwood and aspen was cut by spec.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	2	Log	13		Ironwood	Low	Variable	Variable
White Pine	95	Log/XLog	16	109	Hawthorn (spp.)	Trace	5 - 10 feet	5 - 10 feet
Black Cherry	3	Log	15		Sugar Maple	Low	Variable	Variable
					Red Maple	Medium	10 - 20 feet	10 - 20 feet
					Bigtooth Aspen	Full	10 - 20 feet	10 - 20 feet

69 122 - Road/Parking Lot None 2.4 No 6 Rd

70 4111 - S.Maple, Hard Mast Association Sawtimber Well 24.7 54 111-140 N/A hardwood stand that occurs along river. N hardwood with cedar. Ash component is dying due to EAB.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole	8	54	Ironwood	Low	Variable	Variable
Sugar Maple	5	Log/XLog	14		Musclewood/Hornbeam	Low	Variable	Variable
Basswood	15	Log/Pole	11		Sugar Maple	Low	Variable	Variable
Red Oak	5	Log/XLog	16	90	Red Maple	Low	Variable	Variable
White Oak	5	Log/Pole	11		Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	15	Log/Pole	11		Beech	Low	Variable	Variable
White Pine	5	Pole/Log	9		Northern White Cedar	Low	>20 feet	>20 feet

71 4199 - Other Mixed Upland Deciduous Sawtimber Well 17.6 86 111-140 N/A Poor form, open grown hardwoods with mixed aspen. Heavy browse and little regen occurring below browse line. Heavier white pine in northern portion of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	14		White Pine	Low	Variable	Variable
Red Maple	10	Log/Pole	10		Beech	Low	Variable	Variable
Basswood	5	Pole	8		Red Oak	Low	Variable	Variable
Red Oak	25	XLog/Log	18	86	Ironwood	Low	Variable	Variable
Red Oak	5	Pole	9		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
White Oak	10	Log/Pole	10					
Quaking Aspen	10	Pole/Log	9					
Bigtooth Aspen	20	Log/Pole	10					
White Pine	5	Pole/Log	9					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
72	42100 - Planted White Pine	Sawtimber Well	13.4	70	111-140	N/A	Typical poor form white pine plantation. Row thinned in a take two leave two pattern. All red maple, aspen and jack pine was spec cut. Cut in 2010 as part of 6 Rd. Mix 63-010-07				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		99	Log/XLog	14	70	Ironwood		Medium	Variable	Variable	
Black Cherry		1	Log/Pole	12		Autumn Olive		Low	5 - 10 feet	5 - 10 feet	
						Red Maple		Medium	Variable	Variable	
						White Ash		Low	Variable	Variable	
						Beech		Low	Variable	Variable	
						Morrow Honeysuckle		Trace	5 - 10 feet	5 - 10 feet	
						White Pine		Medium	Variable	Variable	
						Hawthorn (spp.)		Low	5 - 10 feet	5 - 10 feet	
						Black Locust		Trace	< 5 feet	< 5 feet	
73	4110 - Sugar Maple Association	Sawtimber Well	4.6	41	81-110	N/A	Overhead power line runs through stand. Heavy browse on maple regen. Sapling and poles are almost exclusively sugar maple and ironwood				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		15	Log	16	83	Ironwood		Medium	Variable	Variable	
Sugar Maple		40	Pole	8	41	Sugar Maple		Medium	Variable	Variable	
Basswood		15	Log	16		Black Locust		Trace	< 5 feet	< 5 feet	
White Ash		2	Log	14		White Ash		Low	< 5 feet	< 5 feet	
Quaking Aspen		15	Log/Pole	13							
Black Cherry		10	XLog/Log	18							
Ironwood		3	Log/Pole	10							
74	310 - Herbaceous Openland	None	1.5			No	Stand appears to be bluestem. Planted spruce along eastern edge planted by adjacent landowner before survey. No trespass needed.				
75	4130 - Aspen	Sapling Well	5.0	15	Immature	N/A	Harvested as part of 6 Rd Mix 63-010-07. All trees 2 inches and greater were harvested.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		30	Sapling	3		White Pine		Trace	Variable	Variable	
Bigtooth Aspen		65	Sapling	3	15	Ironwood		Medium	Variable	Variable	
White Pine		3	Log/Pole	14							
Black Cherry		2	Pole/Sapling	5							
76	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	1.7	81	81-110	N/A	Stand was not cut during previous entry. Hold as retention for adjacent cut.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		38	Log	14		Ironwood		Medium	Variable	Variable	
White Pine		60	Log/Pole	12	81	Beech		Low	Variable	Variable	
Black Cherry		2	Log/Pole	10		White Pine		Low	Variable	Variable	
						Japanese Barberry		Trace	5 - 10 feet	5 - 10 feet	
						White Ash		Low	Variable	Variable	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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77	42110 - Planted Red Pine	Sawtimber Well	136.5	66	81-110	N/A	Thinned in Natty Pine sale (63-077-97) in 2000. Stand last thinned in 2017 under the 131 Red Pine contract (63-001-17). Aspen and maple were spec cut.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		5	XLog/Log/Pole	18		White Oak		Low	Variable	Variable
White Pine		1	Log/Pole	15		Ironwood		Low	Variable	Variable
Red Pine		94	Log/Pole	11	66	Autumn Olive		Trace	5 - 10 feet	5 - 10 feet
						White Ash		Trace	5 - 10 feet	5 - 10 feet
						Red Maple		Full	Variable	Variable
						Bigtooth Aspen		Low	10 - 20 feet	10 - 20 feet
						Beech		Low	5 - 10 feet	5 - 10 feet
						Red Oak		Medium	5 - 10 feet	5 - 10 feet

78	4130 - Aspen	Sapling Well	19.9	16	1-50	N/A	Some more open areas in the northern portion of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		5	XLog/Log	18		Ironwood		Low	Variable	Variable
Red Maple		5	Sapling/Pole	4		Autumn Olive		Low	5 - 10 feet	5 - 10 feet
Red Oak		10	Sapling/Pole	4		White Pine		Low	10 - 20 feet	10 - 20 feet
Quaking Aspen		10	Sapling	2	16	White Oak		Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen		70	Sapling	2	16	Blackberry/Raspberry		Low	5 - 10 feet	5 - 10 feet

79	42100 - Planted White Pine	Sawtimber Well	28.9	65	111-140	N/A	Row thinned in a take two leave two pattern. All red maple, aspen and jack pine was spec cut. Cut in 2010 as part of 6 Rd. Mix 63-010-07 Generally well formed white pine for plantation origin.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		99	Log/Pole	10	65	Ironwood		Medium	Variable	Variable
Black Cherry		1	Log/Pole	14		Witch Hazel		Trace	5 - 10 feet	5 - 10 feet
						Red Maple		Medium	Variable	Variable
						Bigtooth Aspen		Medium	>20 feet	>20 feet
						Beech		Low	Variable	Variable

80	4130 - Aspen	Sawtimber Well	22.3	54	81-110	N/A	Age is an average of 4 core samples. Generally healthy aspen stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Log/Pole	10		White Pine		Medium	Variable	Variable
Quaking Aspen		25	Log/Pole	10	54	Beech		Low	Variable	Variable
Bigtooth Aspen		58	Log/Pole	12	54	Red Oak		Low	>20 feet	>20 feet
White Pine		5	Pole	9		Ironwood		High	Variable	Variable
White Pine		5	XLog/Log	18		Autumn Olive		Low	5 - 10 feet	5 - 10 feet
Red Pine		2	Log/XLog	15		Witch Hazel		Low	5 - 10 feet	5 - 10 feet
						Red Maple		Medium	Variable	Variable
						White Ash		Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
81	4130 - Aspen	Sapling Well	17.4	8	Immature	N/A	Stand was final harvested in 2018 (Anderson Creek Aspen, 63-024-17), spring time short wood operation. Great aspen regen post harvest																																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>45</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>50</td> <td>Sapling</td> <td>2</td> <td>8</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	45	Sapling	2		Bigtooth Aspen	50	Sapling	2	8	Black Cherry	5	Pole	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Variable</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	Variable	Variable																																				
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82	42110 - Planted Red Pine	Sawtimber Well	2.4	61	81-110	N/A	Stand was thinned in 2018 (Anderson Creek Aspen, 63-024-17). Hardwood and aspen were spec cut.																																																												
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83	4130 - Aspen	Sapling Well	57.9	26	1-50	N/A	Young aspen stand that is growing well. Cut as part of Frys Mix (63-086-97). Gently rolling terrain throughout the stand.																																																												
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84	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	3.4	76	81-110	N/A	Ephemeral stream runs through the stand and has moderate to steep slopes leading down to it. Mixed hardwoods and some conifer																																																												
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85	310 - Herbaceous Openland	None	1.9			No	this opening was previously under a trespass from the adjoining landowner and was used as pasture. The trespass was corrected in 2007 and the land has been returned to state ownership.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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86 4119 - Mixed Northern Hardwoods Sawtimber Well 23.6 83 81-110 N/A Stand buffers contains steep banks with very limited access. Anderson creek runs through the stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	30	Log/Pole	14	83	Musclewood/Hornbeam	Trace	Variable	Variable
Red Maple	20	Log/Pole	10		Ironwood	Low	Variable	Variable
Basswood	15	Log/Pole	12		Sugar Maple	Low	Variable	Variable
Red Oak	3	Pole/Log	8		Red Maple	Low	Variable	Variable
Bigtooth Aspen	10	Log/Pole	13					
Northern White Cedar	5	Pole/Log	9					
White Pine	10	Log/Pole	13					
Hemlock	2	Log/Pole	10					
Ironwood	5	Pole/Sapling	6					

87 42290 - Natural Mixed Pine Sawtimber Well 24.2 78 111-140 N/A Natural pine stand with evidence of past management (old skids up/downslope). Steep slope in the west that leads down to Anderson Creek. White pine is well formed, particularly in the smaller size classes.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	13		White Oak	Trace	10 - 20 feet	10 - 20 feet
Red Maple	5	Log/Pole	12		White Pine	Low	Variable	Variable
Quaking Aspen	5	Pole/Log	9		Beech	Low	Variable	Variable
Black/Red (Hybrid) Oak	10	Log/Pole	12		Quaking Aspen	Medium	>20 feet	>20 feet
White Pine	40	Log/XLog	15	78	Ironwood	Medium	Variable	Variable
White Pine	15	Pole	9		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Red Pine	20	XLog/Log/Pole	19					

88 3302 - Low Density Conifer Trees None 3.2 No

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	>20 feet
White Pine	Low	>20 feet	>20 feet
Basswood	Low	>20 feet	>20 feet

89 310 - Herbaceous Openland None 10.7 No Open grassy areas with a few scattered shrubs throughout. Surrounded by young aspen on all sides.

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	>20 feet	>20 feet
Jack Pine	Low	10 - 20 feet	10 - 20 feet
Black Cherry	Low	>20 feet	>20 feet
Quaking Aspen	Low	Variable	Variable
Autumn Olive	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	Low	>20 feet	>20 feet
Basswood	Trace	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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90	4130 - Aspen	Sapling Well	90.9	16	1-50	N/A	Aspen stand that was harvested in 2010/11 under the Hanover Aspen sale (63-049-08). Brush piles were left for habitat and lots of edge was created with the stand boundary. All red pine, sugar maple and oak was left. Abundant autumn olive throughout stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Log/Pole/XLog	14	
Red Oak	15	Log/XLog/Pole	15	
Quaking Aspen	30	Sapling/Pole	3	16
Bigtooth Aspen	48	Sapling/Pole	3	16
Red Pine	2	Log/Pole	10	

91	4131 - Aspen, Oak	Poletimber Well	12.7	28	51-80	N/A	NCT runs through the stand along the bluff. Cut in the North Country Aspen sale. #093 1997
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole/Sapling	5	
Red Oak	5	Log/XLog	17	
Red Oak	10	Pole	8	
White Oak	5	Log	15	
Bigtooth Aspen	40	Pole	6	28
White Pine	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	Variable	Variable
Red Pine	Trace	Variable	Variable
Red Maple	High	Variable	Variable
Bigtooth Aspen	Medium	Variable	Variable
White Oak	Low	Variable	Variable

92	4133 - Aspen, Mixed Pine	Sawtimber Medium	19.8	66	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log/Pole	12	
Basswood	20	Log/Pole	13	
Bigtooth Aspen	45	Log/Pole	13	66
White Pine	25	Log/Pole	14	
Red Pine	2	Log/Pole	12	
Black Cherry	3	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Autumn Olive	High	5 - 10 feet	5 - 10 feet

93	4139 - Aspen, Mixed Deciduous	Poletimber Well	8.8	69	81-110	N/A	Stand occurs along Anderson creek and has an upland and creek side component. Area adjacent to stand 38 appears to have been harvested at some point in the past.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	10	
Beech	10	Pole	7	
Red Oak	5	XLog/Log	20	
Red Oak	10	Pole	9	
Quaking Aspen	10	Pole/Log	8	
Bigtooth Aspen	30	Log/Pole	10	69
White Pine	5	XLog/Log	18	
White Pine	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Variable
Beech	Low	Variable	Variable
White Oak	Trace	Variable	Variable
Quaking Aspen	Low	Variable	Variable
Ironwood	Low	Variable	Variable
White Pine	Medium	Variable	Variable
Black Cherry	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
94	4311 - Pine, Aspen Mix	Poletimber Well	37.8	73	51-80	N/A	Stand touches Manistee river on two sides and is mostly flat. Full understory of white pine that is free to grow. Aspen will fall out of the stand in the next 10 years.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	9	Log/Pole	12		Musclewood/Hornbeam	Trace		5 - 10 feet	5 - 10 feet
Red Oak	5	Log	16		White Pine	Full		10 - 20 feet	10 - 20 feet
White Oak	5	Pole/Sapling	7		Black Cherry	Low		5 - 10 feet	5 - 10 feet
Quaking Aspen	35	Pole/Log	8	73	Hawthorn (spp.)	Trace		5 - 10 feet	5 - 10 feet
White Pine	35	Pole	7		White Oak	Low		< 5 feet	< 5 feet
White Pine	10	XLog	20						
Jack Pine	1	Log	13						
95	42110 - Planted Red Pine	Sawtimber Well	69.1	69	141-170	N/A		First thin in 1997 as part of Phoenix Pine (62-091-97). Thinned as part of Downhill Pine (63-014-07) in 2009, second thinning. North Country Trail runs through the stand along the river	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Maple	2	Log/Pole	10		White Ash	Low	5 - 10 feet		5 - 10 feet
Red Oak	1	Log/Pole	14		White Oak	High	Variable		Variable
White Oak	3	XLog/Log	18		White Pine	Medium	Variable		Variable
White Pine	2	Log/Pole	12		Beech	Low	Variable		Variable
Red Pine	90	Log/Pole	10	69	Red Oak	Low	Variable		Variable
Black Cherry	2	Log/Pole	13		Red Maple	Low	Variable		Variable
96	4123 - Red Oak	Sawtimber Well	41.0	103	81-110	N/A	Stand of red oak that occurs on top of the bluff leading down to the Manistee river. Appears to have been thinned 40 or so years ago based on stump sprouts. Few small pockets of aspen		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Log/Pole	10		Red Maple	Low		Variable	Variable
Basswood	5	Log/Pole	12		Ironwood	High		Variable	Variable
Red Oak	15	Pole	9		White Pine	Medium		Variable	Variable
Red Oak	55	XLog/Log	20	103	Red Oak	Low		>20 feet	>20 feet
Bigtooth Aspen	5	Log/Pole	12						
White Pine	10	Log/Pole	14						
97	4130 - Aspen	Sapling Poor	47.1	5	Immature	N/A	Stand was final harvested and chipped in 2021. Retention island left as shown in site condition layer. (Wexford County Classic, 63-028-17)		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Oak	2	Sapling	1						
White Oak	3	Sapling	1						
Quaking Aspen	10	Sapling	1						
Bigtooth Aspen	80	Sapling	1	5					
White Pine	5	Sapling	1						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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98 42201 - Natural White Pine, Mixed Deciduous Sawtimber Well 20.4 71 51-80 N/A Popular camping spot in NW of stand along Manistee river/Anderson creek. North Country Trail runs through the stand

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Red Oak	5	Pole	9	
Red Oak	5	XLog/Log	22	
White Oak	5	Log/Pole	12	
Bigtooth Aspen	10	Log/Pole	10	
Northern White Cedar	3	Pole/Log	8	
White Pine	30	Pole	8	
White Pine	30	Log/XLog	13	71
Red Pine	5	Log/Pole	11	
Hemlock	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Variable
Black Cherry	Trace	Variable	Variable
Red Maple	Low	Variable	Variable
White Oak	Low	Variable	Variable

99 4199 - Other Mixed Upland Deciduous Sawtimber Well 12.7 65 51-80 N/A stand was left out of large adjacent cut last entry.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	
Basswood	15	Pole/Log	9	
Red Oak	40	Log/Pole	10	65
Bigtooth Aspen	25	Log/Pole	11	65
White Pine	5	Log/Pole	10	
Jack Pine	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	High	Variable	Variable
Autumn Olive	Full	5 - 10 feet	5 - 10 feet

100 42110 - Planted Red Pine Poletimber Well 16.3 73 171-200 N/A Consumers pine timber rights

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Pole/Log	9	73

101 4133 - Aspen, Mixed Pine Poletimber Well 18.5 69 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	12	
Red Oak	10	Log/Pole	14	
Paper Birch	5	Log/Pole	10	
Quaking Aspen	10	Log/Pole	12	69
Bigtooth Aspen	30	Log/Pole	12	69
White Pine	15	Pole	8	
White Pine	10	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Variable
Red Maple	Medium	Variable	Variable
Ironwood	Low	Variable	Variable
Beech	Low	Variable	Variable
Red Oak	Low	Variable	Variable

Mixed stand that gradually slopes down to an ephemeral creek. A few origin red pine and northern white cedar scattered in northern portion of stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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102 3303 - Mixed Low Density Trees None 1.2 No Forest road runs through the opening.

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	>20 feet	>20 feet
Basswood	Trace	>20 feet	>20 feet
American Elm	Trace	>20 feet	>20 feet
Quaking Aspen	Low	10 - 20 feet	10 - 20 feet
Autumn Olive	Low	5 - 10 feet	5 - 10 feet

103 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 5.3 86 51-80 N/A Stand occurs along Anderson creek and the Manistee river. North country trail runs through the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	10	
Red Oak	30	XLog/Log	18	86
Red Oak	15	Pole	9	
Bigtooth Aspen	5	Pole	5	
White Pine	20	XLog/Log	18	
White Pine	5	Pole	7	
Red Pine	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Variable
Beech	Medium	Variable	Variable
Red Oak	Low	Variable	Variable
White Oak	Low	Variable	Variable
Ironwood	Medium	Variable	Variable
Red Maple	Medium	Variable	Variable

104 4119 - Mixed Northern Hardwoods Sawtimber Well 14.2 80 111-140 N/A Stand occurs on the flat below the river bluff. Mix of northern hardwoods with cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	30	Log/Pole	12	80
Red Maple	15	Pole/Log	9	79
Basswood	15	Log/Pole/Sap	14	
White Oak	10	Pole/Log	8	
Northern White Cedar	15	Log/Pole	11	
White Pine	15	Log/Pole	13	

105 4131 - Aspen, Oak Poletimber Well 29.9 73 81-110 N/A Stand contains the bluff top and slope down to the Manistee River.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole/Log	8	
Red Maple	5	Pole/Log	9	
Red Oak	20	Log/Pole/XLog	16	
White Oak	5	Pole/Log	9	
Quaking Aspen	10	Pole/Log	9	
Bigtooth Aspen	40	Log/Pole	10	73
White Pine	15	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	Variable	Variable
Sugar Maple	Low	Variable	Variable
Red Oak	Low	Variable	Variable
Ironwood	Low	Variable	Variable
Autumn Olive	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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106	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	14.2	36	51-80	N/A	Mixed density stand that abuts the Manistee River. Small scattered openings throughout
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	12		White Oak	Low	Variable	Variable
White Oak	5	Log/Pole	14		Autumn Olive	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	30	Pole/Sapling	7	36	White Pine	Medium	Variable	Variable
White Pine	10	XLog	25	126	Jack Pine	Low	10 - 20 feet	10 - 20 feet
White Pine	20	Pole	8					
Red Pine	5	Pole	8					
Jack Pine	25	Pole	8					

107	320 - Upland Shrub	None	15.7			No	Open area with pockets of aspen, scattered trees. Being managed as a wildlife opening
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Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	>20 feet	>20 feet
Jack Pine	Low	>20 feet	>20 feet
Black Cherry	Low	Variable	Variable
Bigtooth Aspen	Low	>20 feet	>20 feet
Quaking Aspen	Low	>20 feet	>20 feet

108	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.3	76	81-110	N/A	Stand mostly occurs on a steep slope that crosses onto private before hitting Anderson Creek
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	13		White Pine	Trace	Variable	Variable
Red Maple	20	Log/Pole	10		Beech	Low	Variable	Variable
Basswood	30	Log/Pole	12	76	Red Oak	Trace	Variable	Variable
Red Oak	20	Log	14		White Oak	Trace	Variable	Variable
Red Oak	10	Pole	8		Red Maple	Low	Variable	Variable
Bigtooth Aspen	10	Log	13		Ironwood	Low	Variable	Variable
White Pine	5	Log	14					

109	42200 - Natural White Pine	Sawtimber Well	5.6	95	81-110	N/A	Natural pine stand on bluff top and slope.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	13		White Pine	Medium	Variable	Variable
Red Oak	5	Pole/Log	9		Witch Hazel	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	15	Log/Pole	10					
White Pine	70	Log/Pole/XLog	14	95				
Red Pine	5	Log/Pole	11					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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110 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 7.0 63 81-110 N/A Mixed sized stand. If no management occurs the stand will convert to pine/oak

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	10		Red Maple	Low	Variable	Variable
Red Oak	20	Log/Pole/XLog	13		Beech	Low	Variable	Variable
White Oak	5	XLog/Log/Pole	22		Red Oak	Low	Variable	Variable
Bigtooth Aspen	30	Log/Pole	10	63	White Pine	High	Variable	Variable
White Pine	10	Log/Pole	13					
White Pine	10	XLog	20					

111 42201 - Natural White Pine, Mixed Deciduous Poletimber Well 3.4 46 111-140 N/A Aspen appears to have senesced out of this area. The stand is transitioning to a natural white pine with oak stand. Generally good form throughout

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	10		White Oak	Trace	Variable	Variable
Red Oak	10	XLog	24		White Pine	High	Variable	Variable
Red Oak	15	Log/Pole	12		Beech	Low	Variable	Variable
Bigtooth Aspen	5	Log/Pole	12		Red Oak	Trace	Variable	Variable
White Pine	60	Pole/Log	9	46				

112 4199 - Other Mixed Upland Deciduous Sawtimber Well 8.3 54 81-110 N/A Stand age is an average of core samples. Site will favor northern hardwoods over time

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	20	Log/Pole	16		Ironwood	High	Variable	Variable
Red Maple	20	Pole/Log	9		Red Oak	Low	>20 feet	>20 feet
Basswood	15	Log/Pole	14					
Red Oak	15	XLog/Log/Pole	22					
Bigtooth Aspen	30	Log/Pole	10	54				

113 4130 - Aspen Poletimber Well 16.6 26 1-50 N/A Small aspen stands that were likely cut as part of Frys Mix (63-086-97).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log/XLog/Pole	15		Ironwood	Low	Variable	Variable
Quaking Aspen	25	Sapling/Pole	4	26	White Oak	Trace	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	65	Pole/Sapling	5	26	White Pine	Trace	Variable	Variable
White Pine	5	Log/Pole	10		Black Cherry	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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114 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 27.2 104 81-110 N/A Stand is located mostly on a slope with a portion on the ridge top.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	11	
Red Oak	20	Pole	9	
Red Oak	20	XLog/Log	19	104
White Oak	5	Log/Pole	10	
Bigtooth Aspen	5	Log/Pole	10	
White Pine	15	Log/XLog	15	83
White Pine	10	Pole	8	
Red Pine	15	Log/Pole	13	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	>20 feet
White Pine	Low	Variable	Variable
Red Oak	Low	>20 feet	>20 feet
White Oak	Low	10 - 20 feet	10 - 20 feet
Red Pine	Trace	Variable	Variable

115 4112 - Maple, Beech, Cherry Association Sawtimber Well 10.3 74 81-110 N/A Sattered log sized cherry throughout stand but often have poor form. One or two large oak and white pine in stand

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Log/Pole	11	74
Red Maple	60	Log/Pole	11	74
Black Cherry	20	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	Variable	Variable
White Pine	Trace	Variable	Variable
Beech	Trace	< 5 feet	< 5 feet

116 42311 - Planted Spruce, Mixed Deciduous Sawtimber Well 7.1 63 111-140 N/A Planted white spruce stand 1962. Spruce is declining with only a small percentage showing good health.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Log/Pole	10	
Red Maple	10	Log/Pole	10	
Balsam Fir	5	Pole	6	
White Spruce	70	Pole/Log	9	63
Black Cherry	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Trace	Variable	Variable
Balsam Fir	Low	Variable	Variable
Beech	Trace	Variable	Variable

117 4130 - Aspen Sapling Well 4.8 26 1-50 N/A Mixed quaking and bigtooth aspen stand, growing well. Cut as part of Frys Mix (63-086-97)

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	3	Pole/Sapling	7	
Sugar Maple	5	XLog	28	
Quaking Aspen	25	Pole/Sapling	6	26
Bigtooth Aspen	60	Pole/Sapling	6	26
White Pine	5	Log/Pole	12	
Hemlock	2	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Variable
Ironwood	Low	Variable	Variable
Beech	Low	Variable	Variable
White Pine	Low	Variable	Variable
Black Cherry	Trace	Variable	Variable
Hawthorn (spp.)	Trace	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
118	429 - Mixed Upland Conifers	Sawtimber Well	6.9	61	51-80	N/A	Stand contains Anderson Creek. Steep banks to the creek limit access.																																																																	
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119	4110 - Sugar Maple Association	Sawtimber Well	4.8	112	111-140	N/A	hardwood stand that occurs along river. N hardwood with cedar. Ash component is dying due to EAB.																																																																	
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121	4130 - Aspen	Poletimber Well	13.5	41	81-110	N/A	Stand occurs on the bluff top and contains the slope of the bluff and hillside down to the road. Mostly young aspen but some mixed older aspen is present.																																																																	
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122	330 - Low-Density Trees	None	1.4			No	OPIC - FMD: a few dispersed picnic/campsites along the river.																																																																	