

Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63148

Entry Year: 2027

Acreage: 1,946

County: Wexford

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Ben Lachman

Legal Description:

T24N, R9W, Sections 17-20, 29, 30

Identified Planning Goals:

Manage compartment for a mix of timber, wildlife, recreational and ecological concerns. Management plan and practiced silviculture methods will be implemented with all management activities.

Soil and topography:

This compartment falls within landtype association (LTA) 1111 of sub-subsection VII.2.1 and 5211 of sub-subsection VII.2.2. LTA 1111, which occurs in the southern half of section 30, is characterized by steep, broken moraine ridges, few kettle lakes, and excessively drained sand. LTA 5211, which occurs in the remainder of the compartment, is a pitted outwash plain with excessively drained sand.

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

All sections contain some private land with the exception of section 19. Desirable acquisitions would be the NW qtr and the East half of the NE qtr of section 18, the NW and the NE and the SE of the NE of section 30 and the South half of the SE qtr of section 20. No lands are identified for disposal.

Unique Natural Features:

This compartment contains a few mixed hemlock/ cedar/ white pine stands that are representative of pre-settlement conditions in this general area along the Manistee River. Manton Creek in Section 20. Potential for red-shouldered hawk, northern goshawk, eastern massasauga, wood turtle, spotted turtle. The bog habitat harbors potential for Blanding's turtle, ebony boghaunter, spotted turtle, and secretive locust. Eastern box turtle could occur throughout the compartment.

Archeological, Historical, and Cultural Features:

None noted.

Special Management Designations or Considerations:

Continue to create a variety of cover types and age classes. Several stands in this compartment are remnants of old strip (Red pine / Jack pine alternating strips) plantations. The Jack pine was either cut out last YOY or is being cut this YOY. Major cultivation and site prep will be needed to maintain red pine plantations within the compartment. Aspen will continue to be managed on a 50 to 60 year rotation, work should be done to break up large blocks of aspen into different age classes in future YOY. (Specifically stand 53 be broken up)

Watershed and Fisheries Considerations:

Manton Creek flows northerly through the east portion of the compartment, while a branch of Buttermilk Creek flows north and west through the southwest (Section 30) portion of the compartment. While the state natural river designation ends at the Missaukee/Wexford County line, Fisheries, Forest Management, and Wildlife Divisions entered into an agreement to adopt and utilize the Upper Manistee River state natural river zoning ordinance. Manton Creek and Buttermilk Creeks, are both designated trout streams with excellent self-sustaining brown trout populations. On both of these streams, the vegetative buffer would be 100 feet on 0-10% slopes, 115 feet on 11-20% slopes, 135 feet on 21-32% slopes, and 155 feet on 33+% slopes, unless the proposed treatment meets one of the eight exceptions (page 41 of the Upper Manistee River Natural River Plan).

Wildlife Habitat Considerations:

This compartment is a large deer wintering complex. The habitat objectives are to continue to maintain species diversity and age-class diversity across the compartment. Featured species of special interest include deer, ruffed grouse, woodcock, golden-winged warbler, and bear. 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

Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum in other areas of the state. Gravel pits are located in Section 33 about two miles to the southeast, and potential is considered to be good. This area is located seven miles south of the prolific Silurian Niagaran reef trend. There appears to be limited potential for oil and gas development in the compartment, and none of the State lands are leased for oil and gas exploration and development. Active leases are located to the north and east.

Vehicle Access:

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

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no designated trails within this compartment. Dispersed camping and hunting occur within this compartment. (T.M.N. 12/17/14).

Fire Protection:

Limited potential for large fires, although potential for some urban interface concerns where homes and cabins exist along the perimeter of the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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

Cover Type & Treatments Map

Compartment: 63148
T24N, R09W Sec. 18-20, 29-30
County: Wexford
Unit: Cadillac
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2027
Acres: 1,946 GIS Calculated
Examiner: Ben Lachman
Date Exported: 7/15/2025
Map Phase: Web Post



0 0.5 1 Miles

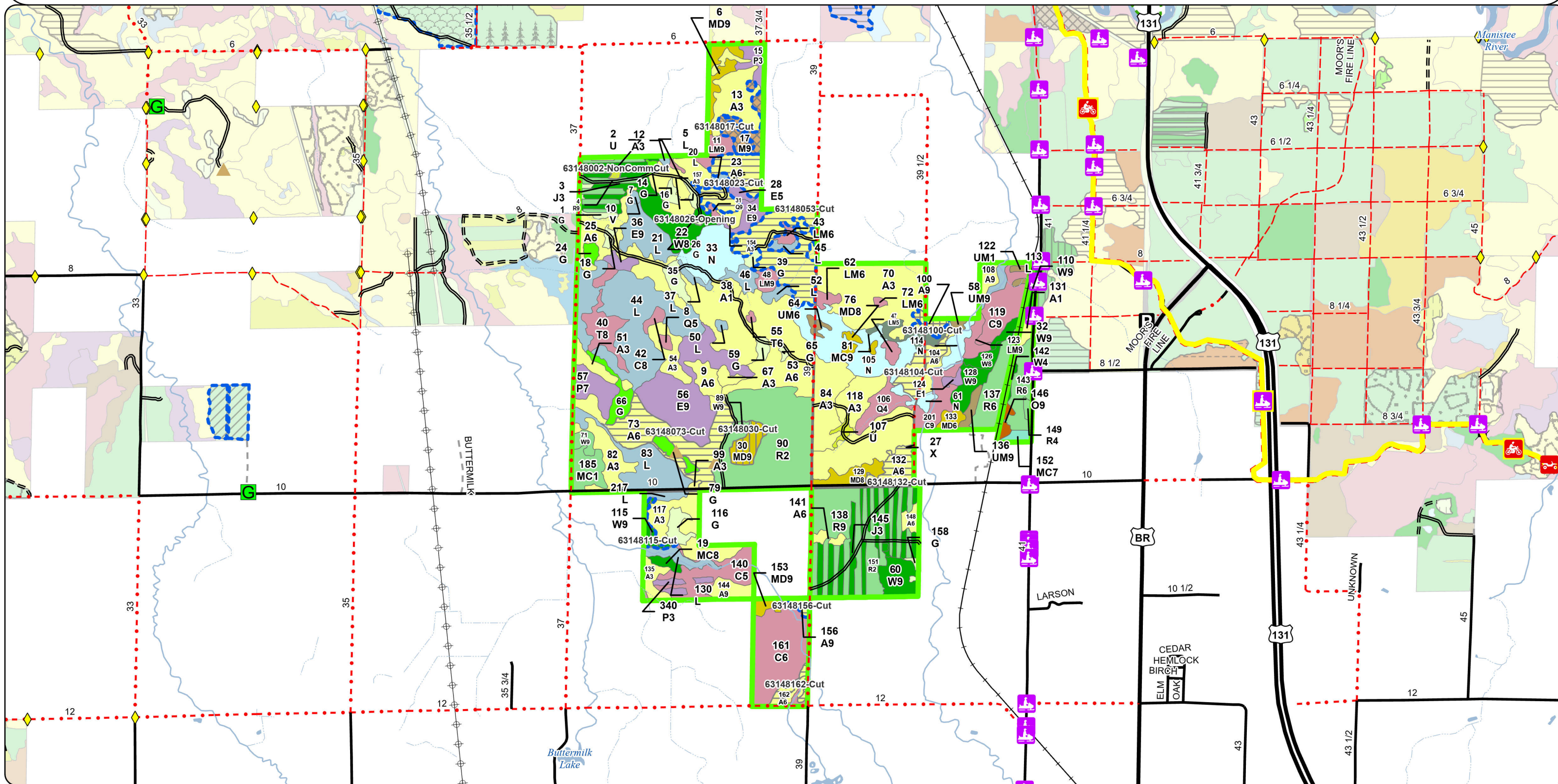
- Survey Grade Corners
- Berms
- Gate
- Bridges
- Parking Lot
- Designated Hiking Pathways
- Designated MCCCT Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route

- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties

- Powerline
- Compartment Boundary
- Clearcut
- Selection
- Seed Tree
- Shelterwood
- Non-Comm. Tree Cutting
- Openings Mgmt.
- Treatments with Site Conditions
- 411 - Northern Hardwood

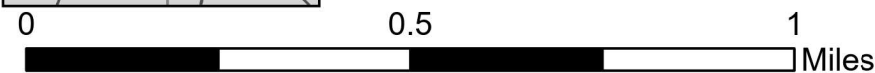
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

- 613 - Lowland Mixed Forest
- 211 - Cropland
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Herbaceous Openland



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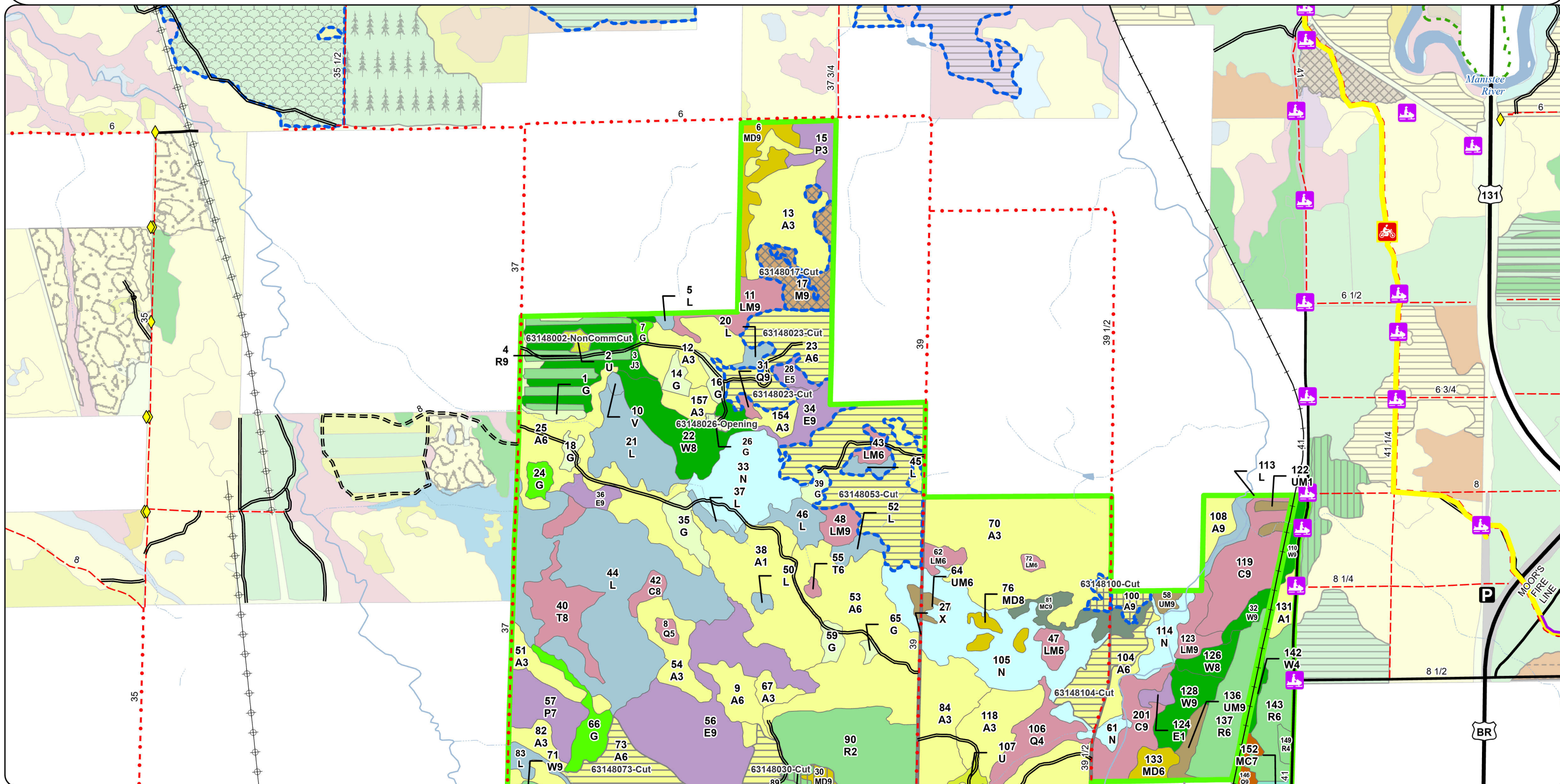
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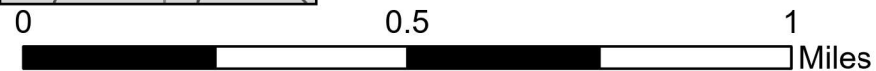
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
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- Compartment Boundary
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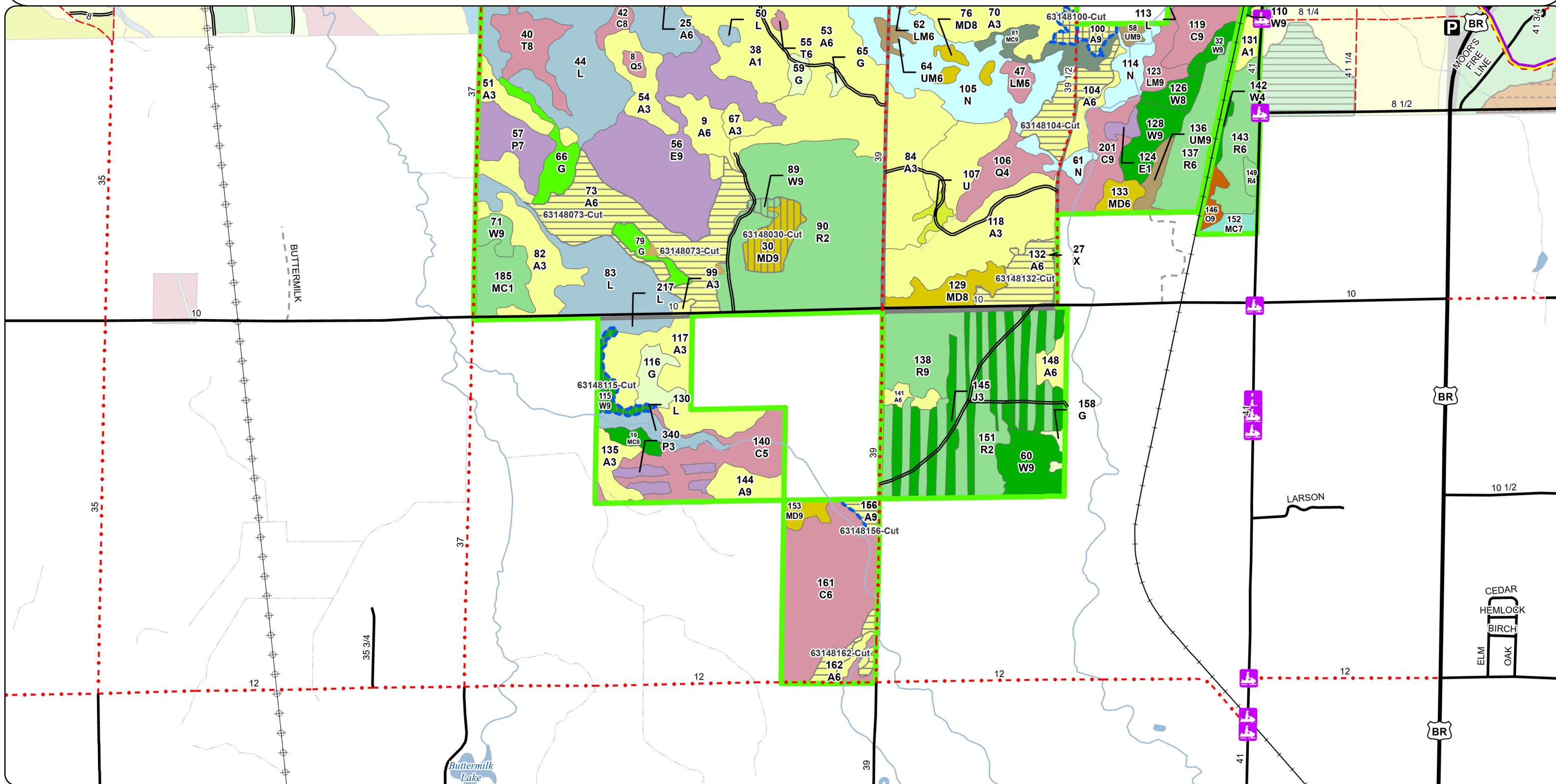
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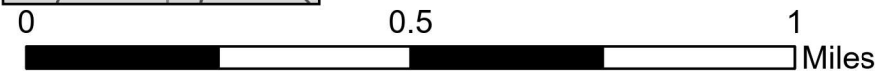


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|--|---------------------------------------|---|-------------------------------|---|---------------------------------|---|---------------------------------|---|---------------------------|
|  | Berms |  | County - Dirt Road (Seasonal) |  | Compartment Boundary |  | 421 - Planted Pines |  | 211 - Cropland |
|  | Parking Lot |  | Private - Dirt / Gravel Road |  | Clearcut |  | 422 - Natural Pines |  | 122 - Road/Parking Lot |
|  | Designated MCCCT Trails |  | Active Railroads |  | Seed Tree |  | 423 - Other Upland Conifers |  | 310 - Herbaceous Openland |
|  | DNR - Secondary Forest Road |  | Intermittent Stream |  | Shelterwood |  | 429 - Mixed Upland Conifers |  | 330 - Low Density Trees |
|  | Federal / State Highway |  | Perennial River |  | Treatments with Site Conditions |  | 430 - Upland Mixed Forest |  | 622 - Lowland Shrub |
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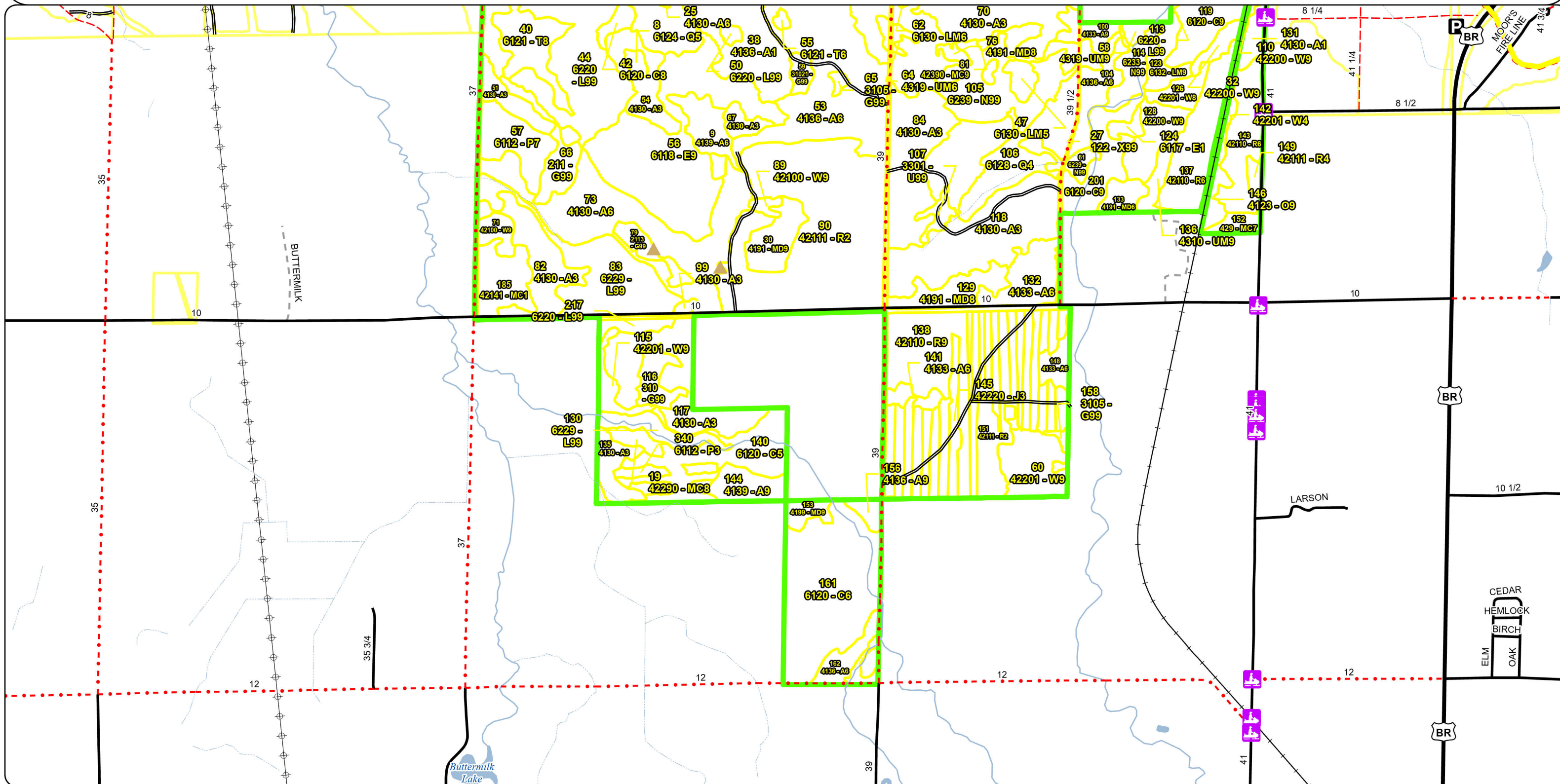
Stand Boundary Map

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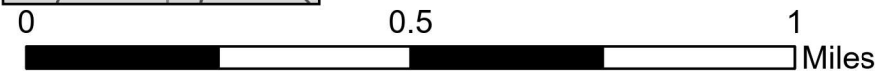
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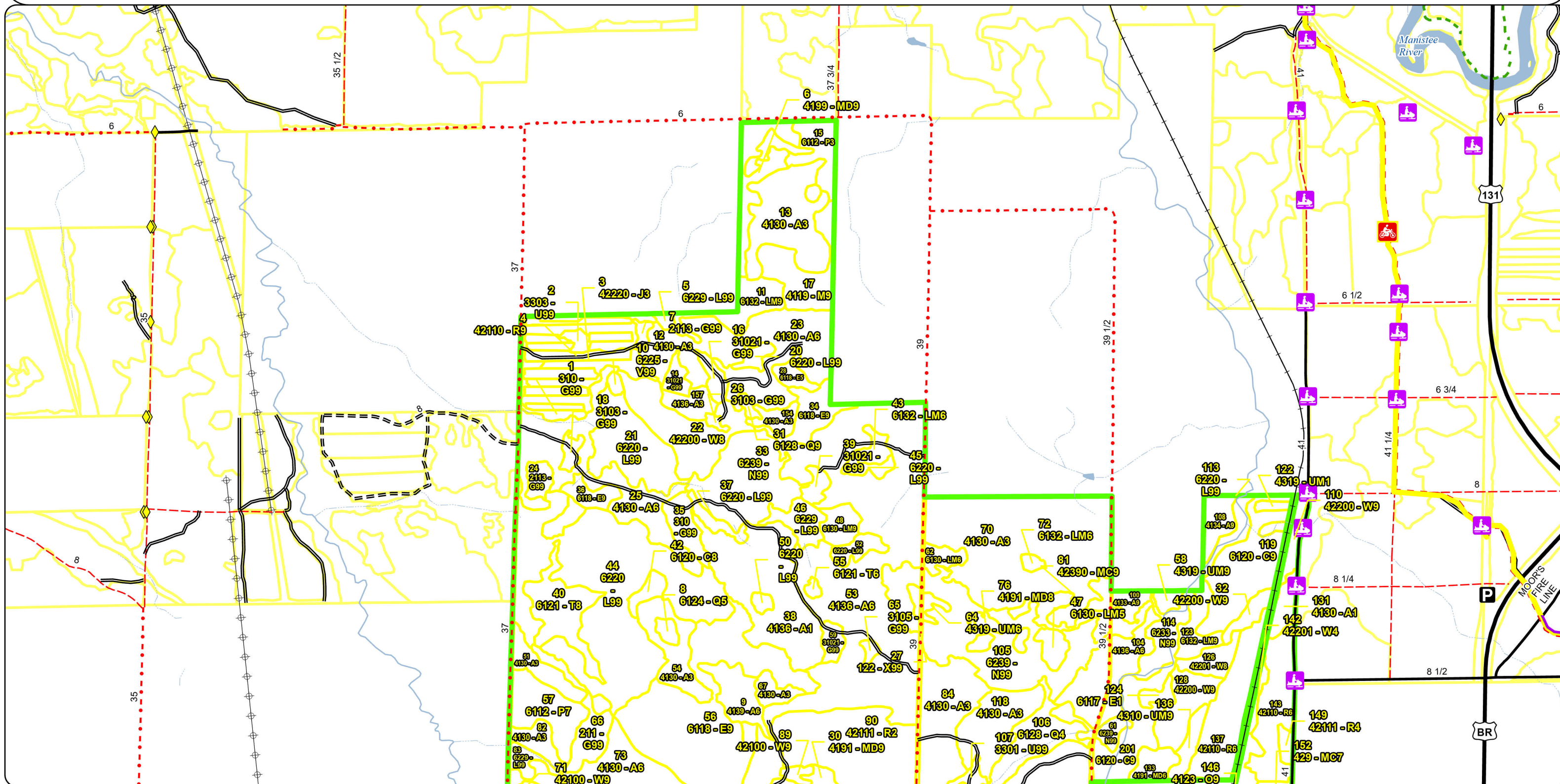
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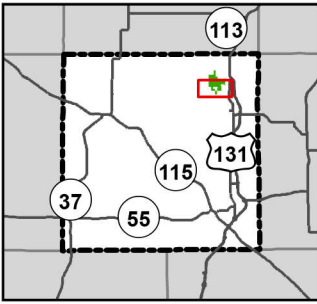
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Special Conservation Areas & Site Conditions Map

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0 0.5 1 Miles

▲ Berms

P Parking Lot

— Designated MCCCT Trails

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— Counties

⊕ ⊕ Powerline

— Compartment Boundary

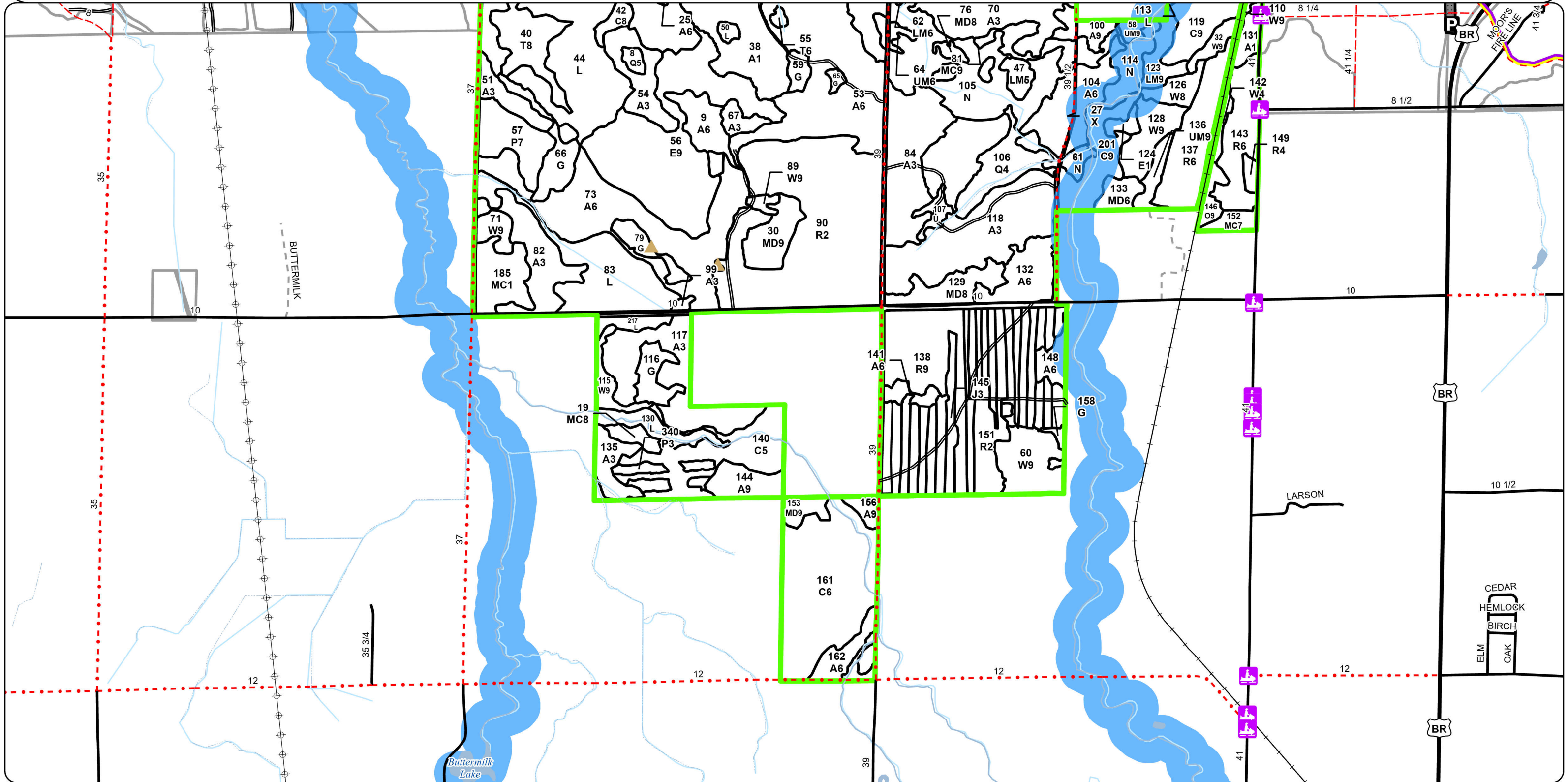
— Stand Boundaries







— SCA

— Cold Water Streams







— High Priority Trout Stream Buffer


— Trail Head

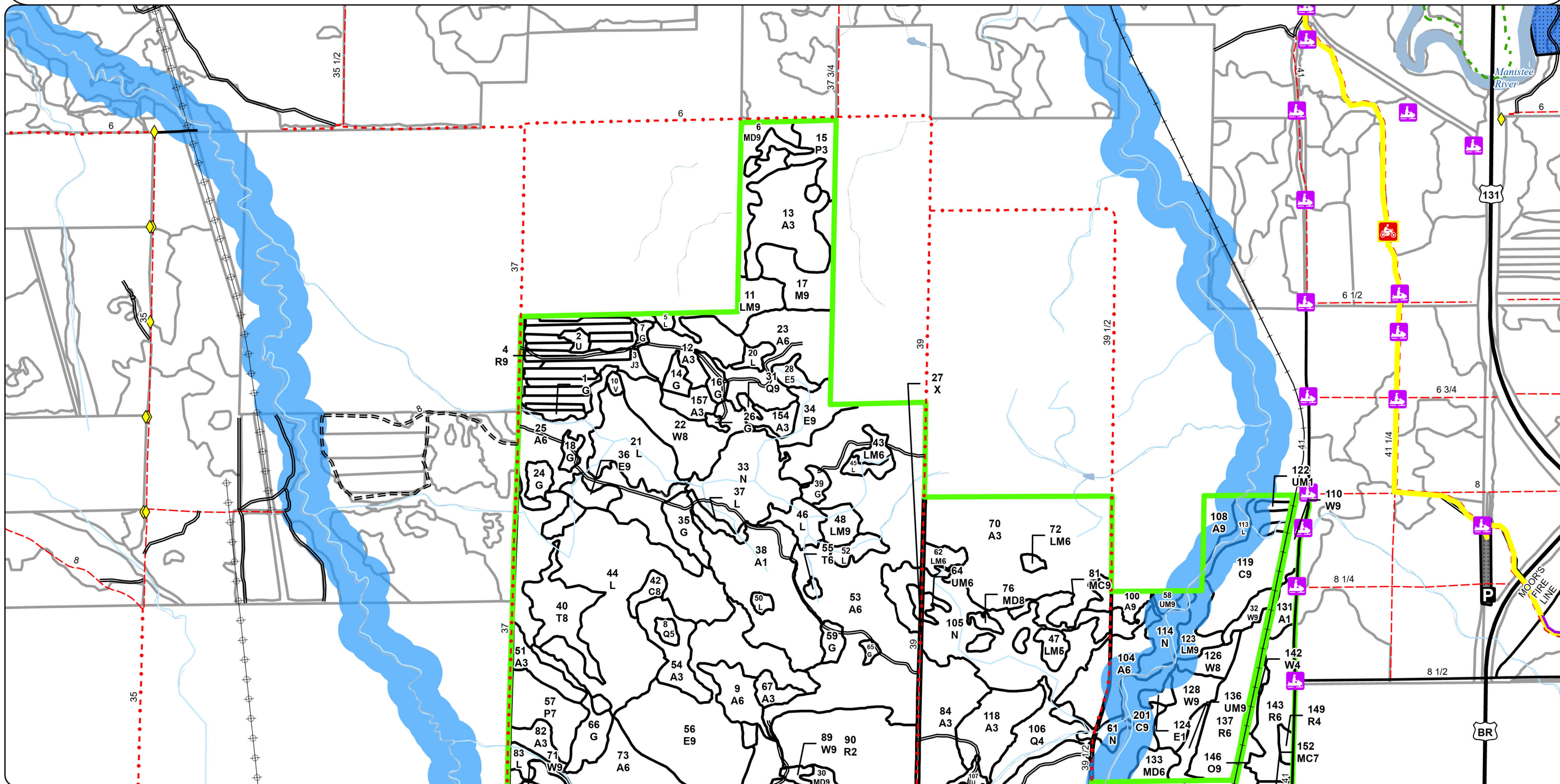


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-  Lakes and Rivers
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-  Compartment Boundary

-  Stand Boundaries
 SCA
 Cold Water Streams
 High Priority Trout Stream Buffer
 Boat Access Site
 Trail Head



Report 1 – Total Acres by Cover Type and Age Class

	Age Class																		
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	193	120	67	0	6	213	89	16	0	0	0	0	0	0	0	0	10	714
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	30	88	18	0	0	0	4	0	0	140
Cropland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Jack Pine	0	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	16	0	0	0	0	0	16	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	2	18
Lowland Deciduous	0	0	0	3	0	0	0	0	5	10	4	0	0	0	0	0	0	67	89
Lowland Mixed Forest	0	0	0	0	0	0	1	16	0	0	0	6	0	15	0	0	0	0	38
Lowland Shrub	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	195
Marsh	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
Mixed Upland Deciduous	0	0	0	0	0	0	6	25	18	5	0	0	0	0	0	0	0	0	53
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Oak	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Planted Mixed Pines	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Red Pine	0	146	0	0	0	0	45	52	0	0	0	0	0	0	0	0	0	0	243
Tamarack	0	0	0	0	0	0	0	0	1	0	0	0	0	21	0	0	0	0	22
Upland Conifers	0	0	0	0	0	0	0	4	0	0	11	0	0	0	0	0	0	0	15
Upland Mixed Forest	0	0	0	3	0	0	0	5	5	0	0	0	0	0	0	0	0	0	13
Urban	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
White Pine	0	0	0	0	0	0	0	2	7	40	24	5	0	0	0	0	0	6	84
Total	383	339	135	152	0	6	265	193	56	101	164	29	0	36	0	4	0	85	1947

Report 2 – Treatment Summary

Cadillac Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 148
Total Compartment Acres: 1,946

Commercial Harvest - 103
Harvests with Site Condition - 103
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversory Removal	Salvage	Other	Total Acres
Aspen	178	0	0	6	14	0	0	0	0	198
Northern Hardwood	0	3	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	6	0	0	0	0	6
Total	178	3	0	6	20	0	0	0	0	207

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	207	0	0	0	0	0	0	0	0	255
Total	207	0	0	0	0	0	0	0	0	255

Standard

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

79	63148079-Opening	6.0	2113 - Forage Crops	99		Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

59	63148059-Opening	3.4	31021 - Cool Season Grass	99		Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

7	63148007-Opening	1.5	2113 - Forage Crops	99		Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 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
14 63148014-Opening	3.2	31021 - Cool Season Grass	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
16 63148016-Opening	3.5	31021 - Cool Season Grass	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
18 63148018-Opening	2.5	3103 - Rubus-Fern	99			Openings Mgmt.	Openings Mgmt.	3102 - Grass	Previous Inventory	No
<u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>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
24 63148024-Opening	3.7	2113 - Forage Crops	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
35 63148035-Opening	7.4	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
39 63148039-Opening	3.1	31021 - Cool Season Grass	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>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
66 63148066-NonCommCut	10.4	211 - Cropland	99			Non-Comm. Tree Cutting	Non-Comm. Tree Cutting	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Cut trees and brush leaving a few trees. Long term plan includes, herbicide, tillage, mowing, planting. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 02/01/2026										
73 63148030-Cut	13.9	4130 - Aspen	6	55	111-140	Harvest	Shelterwood	4220 - Natural White Pine	Cutting Record	No
<u>Prescription</u> Shelterwood- Mark to leave, target residual BA 30-50. - Mark for species diversity but favor leaving white pine where present. - <u>Specs:</u> Include white pine regeneration protection spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of white pine, aspen, and red maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
162 63148162-Cut	6.2	4136 - Aspen, Mixed Conifer	6	56	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut - Cut all species 2 inch and larger except: cedar, hemlock, paper birch. - Mark to leave an average 3 to 5 white pines (18 inches +) per acre, where present. - Include dry summer/ frozen winter spec.- Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen and red maple with components of white pine, paper birch, hemlock, and balsam fir. <u>Regen:</u> <u>Other</u> Buffer stream per BMP manual. Treatment outline currently reflects this buffer. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
73 63148073-Cut	52.4	4130 - Aspen	6	55	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut with retention- Cut all species 2 inch and larger except: cedar and hemlock.- Pocket retention 3-6%- Include Grouse Spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen with components of red maple, black cherry, and white oak. <u>Regen:</u> <u>Other</u> <u>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
2 63148002-NonCommCut	2.0	3303 - Mixed Low Density Trees	99			Non-Comm. Tree Cutting	Non-Comm. Tree Cutting	330 - Low-Density Trees	Previous Inventory	No
<u>Prescription</u> Cut some trees to maintain U type. Release apple trees. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
26 63148026-Opening	1.0	3103 - Rubus-Fern	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Maintain as opening. Cut trees and brush, herbicide, tillage, mowing, planting. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
100 63148100-Cut	6.4	4133 - Aspen, Mixed Pine	9	62	111-140	Harvest	Seed Tree	4133 - Aspen, Mixed Pine	Cutting Record	No
<u>Prescription</u> Seed Tree- Cut all species 2 inch and larger except: hemlock, cedar, black cherry, and birch. - Mark to leave white pine to an average residual BA of 10- 20. - Include dead & down creation: Hare, Grouse, Deer spec.- Recommend cutting in dry summer/ frozen winter.- Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen with components of white pine, red maple, paper birch, and black cherry. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
23 63148023-Cut	30.6	4130 - Aspen	6	61	Unspecified	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut with retention- Cut all species 2 inch and larger except: birch, cedar, hemlock, and white pine 18 inches and greater in DBH.- <u>Specs:</u> Pocket retention capturing red oak, white oak, and other species. Protect retained oaks by leaving non-oak buffer trees around bowl and crown of selected oaks. Negating the need for oak wilt spec.- Include dead and down creation: Hare, Grouse, Deer spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen with components of red maple, sugar maple, red oak, white oak, paper birch, and yellow birch. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <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
104 63148104-Cut	15.7	4136 - Aspen, Mixed Conifer	6	58	51-80	Harvest	Clearcut	413 - Aspen	Cutting Record	No
<u>Prescription</u> Clearcut with retention- Cut all species 2 inch and larger except: birch, hemlock, cedar, and white pine 18 inches and greater DBH- <u>Specs:</u> Pocket retention 3-6%.- Recommend cutting in dry summer/ frozen winter.- Include dead & down creation: Hare, Grouse, Deer spec.- Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen with components of white pine, red maple, birch, oak, and cherry. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
17 63148017-Cut	3.3	4119 - Mixed Northern Hardwoods	9	92	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Group Selection - Mark to cut, target residual BA of 70-90. - Establish gaps in 10 - 20% of the stand with a minimum radius of 150' in <u>Specs:</u> diameter (drip line to drip line) <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of sugar maple, red maple, basswood, paper birch, yellow birch and aspen in varying densities in established regen gaps. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
115 63148115-Cut	5.6	42201 - Natural White Pine, Mixed Deciduous	9	80	171-200	Harvest	Shelterwood	4220 - Natural White Pine	Cutting Record	No
<u>Prescription</u> Extended Irregular Shelterwood- Mark to cut, target residual BA of 20. - Follow natural pine guidance. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate of better stocking or white pine with components of red maple, quaking aspen, and oak spp. <u>Regen:</u> <u>Other</u> Access stand through private to the east. See stand data <u>Comment:</u> <u>Site Condition:</u> Survey Needed <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
132 63148132-Cut	15.0	4133 - Aspen, Mixed Pine	6	65	51-80	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> <u>Specs:</u> Clearcut with retention.- Cut all species 2 inch and larger except: white pine and sugar maple 18 inches and greater.- Pocket retention of 3 to 10% capturing white and red oak. Protect retained oaks by leaving non-oak buffer trees around bowl and crown of selected oaks. Negating the need for oak wilt spec.- Include dead and down creation: Hare, Grouse, Deer spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen with components of white pine, red and white oak, and red maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
156 63148156-Cut	3.3	4136 - Aspen, Mixed Conifer	9	57	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> <u>Specs:</u> Clearcut no retention - Cut all species 2 inch and larger except: paper birch, cedar and hemlock.- Buffer Creek 100ft. Current treatment reflects this buffer. - Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen and red maple with components of white pine, paper birch, hemlock, and cedar. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
53 63148053-Cut	54.4	4136 - Aspen, Mixed Conifer	6	58	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> <u>Specs:</u> Clearcut with group retention- Cut all species 2 inch and larger except: paper birch, hemlock, cedar, and white pine 18 inches and greater in DBH. - Pocket retention capturing white and red oak. Protect retained oaks by leaving non-oak buffer trees around bowl and crown of selected oaks. Negating the need for oak wilt spec.- Include dead and down creation: Hare, Grouse, Deer spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen with components of oak, black cherry, paper birch, and red maple and white pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										

Total Treatment 254.5
Acreage Proposed:



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

5C 2A 2G 2H 3J

634	494	116	24	Aspen	116	7	3	10	5
1	1	0	0	Bog					
139	30	0	110	Cedar			61		48
22	22	0	0	Cropland					
40	40	0	0	Herbaceous Openland					
63	63	0	0	Jack Pine					
6	6	0	0	Low-Density Trees					
32	16	0	16	Lowland Aspen/Balsam Poplar			16		
18	17	0	1	Lowland Conifers			1		
88	21	0	67	Lowland Deciduous			67		
38	21	0	17	Lowland Mixed Forest			17		
195	195	0	0	Lowland Shrub					
97	97	0	0	Marsh					
53	24	16	13	Mixed Upland Deciduous	16		4	9	
4	4	0	0	Natural Mixed Pines					
1	0	0	1	Northern Hardwood			1		
4	4	0	0	Oak					
15	15	0	0	Planted Mixed Pines					
243	243	0	0	Red Pine					
22	1	0	21	Tamarack			21		
15	15	0	0	Upland Conifers					
13	6	5	2	Upland Mixed Forest	5				2
22	22	0	0	Urban					
85	85	0	0	White Pine					
1,850	1,440	137	273	Total Forested Acres	137	7	192	19	56
	78%	7%	15%	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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified

Report 4 – Site Conditions

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Ben Lachman: Examiner

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Comments: Not worth all the work with temp bridge to access. Access from private would require temp bridge on private as well as permission. Not worth pursuing in my judgment, if stand was much larger may be worth the effort to cross streams to get I there.							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Similar to stand to north and west, major effort with temp bridge and crossing major stream will be needed. In my judgment not worth going to that length for less than 5 acres.							
3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	30	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Steams run through stand, as well as not being able to regenerate cedar with deer numbers. Not to mention need for temp bridge.							
4	Unavailable	2A: Adjacent landowner denied access	6	2J: Blocked by railroad	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	18	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Cedar stand buffering Manton Creek. Too wet as well.							

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7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment to allow aspen to fully enter the log class.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2A: Adjacent landowner denied access	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

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12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	61	3J: Water quality/BMPs (stream, river, or lake)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
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Comments:

Not suitable for commercial management between regeneration concerns with cedar, streams and general wet nature.

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

Low wet pockets containing cedar in hemlock and ephemeral ponds

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17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300 foot buffer for Manton Creek RMZ							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Manton Creek is a high priority trout stream, maintain 300 buffer per BMPs.							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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29	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	2I: Survey needed	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	2I: Survey needed	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	2I: Survey needed	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Ben Lachman: Examiner

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36	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	2I: Survey needed	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	310 - Herbaceous Openland		5.4			No	Unmanaged opening filling in with natural pine along the edges. Vacant area between red pine stand adjacent cover types and road
2	3303 - Mixed Low Density Trees	Unspecified	2.0			Yes	Small opening in the middle of pine plantation. Apple trees present, filling in with low quantities of jack pine.
3	42220 - Natural Jack Pine	Sapling Well	19.4	29	Immature	N/A	Old jack pine strips final harvested in 1996. Attempted to be planted to red pine, but was taken over by jack pine natural regen. Evaluate red pine success next YEO.
4	42110 - Planted Red Pine		17.6	69	111-140	N/A	Stand was third row thinned in 1996 and marked second thinning in 2010. Stand was third thinned in 2017, short wood operation. Good quality red pine, crowns look healthy and trees will add girth before final harvest in 2037 YOE.
5	6229 - Mixed Lowland Shrub		1.2			No	
6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	14.1	78	81-110	N/A	Stand is well mixed with the dominant species being red maple and aspen. There are low areas mixed throughout that contain hemlock, cedar, yellow birch, balsam fir, and red maple. The northern portion of the stand while containing two low areas is more upland and contains larger diameters of red maple, sugar maple, red oak, and big tooth. The southern finger of the stand contains multiple low, vernal pools and does not support current harvest methods. Note: Likely trespass on the western private line. Corners have been requested to run line in March 2025.

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
12	4130 - Aspen		19.2	29	Immature	N/A	Stand was final harvested in 1996 (Finger Forty Aspen), oak and conifer were left. Some low edges came back to grass, but overall well stocked regeneration. Mostly upland with a few wet pockets.																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>83</td><td>Pole</td><td>4</td><td>29</td></tr><tr><td>White Pine</td><td>3</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Black Cherry</td><td>3</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>White Oak</td><td>2</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Maple</td><td>7</td><td>Log</td><td>3</td><td></td></tr><tr><td>Paper Birch</td><td>2</td><td>Log</td><td>4</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	83	Pole	4	29	White Pine	3	Seedling	8		Black Cherry	3	Sapling	5		White Oak	2	Log	2		Red Maple	7	Log	3		Paper Birch	2	Log	4		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Autumn Olive</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Autumn Olive	Low	5 - 10 feet	5 - 10 feet		
Canopy Species	% Cover	Size Class	DBH	Age																																													
Quaking Aspen	83	Pole	4	29																																													
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Red Maple	7	Log	3																																														
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Sub-Canopy Species	Density	Avg. Height	Size																																														
Autumn Olive	Low	5 - 10 feet	5 - 10 feet																																														
13	4130 - Aspen		31.9	29	Immature	N/A	Aspen stands harvest in 1996, Fingered Forty Aspen. Good quality with high stem count.																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Beech</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>Quaking Aspen</td><td>8</td><td>Pole</td><td>3</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>80</td><td>Pole</td><td>4</td><td>29</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Beech	2		12		Quaking Aspen	8	Pole	3		Black Cherry	5	Log	2		Red Maple	5	Log	2		Bigtooth Aspen	80	Pole	4	29																	
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14	31021 - Cool Season Grass	Unspecifed	3.2			Yes	Managed wildlife opening.																																										
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Rye (annual)	High	Not Applicable	Not Applicable																																														
15	6112 - Lowland Aspen	Sapling Well	9.8	29	Immature	N/A	Wet with some upland portions. Stand was harvested in 1996 - Finger Forty Aspen, Specs: cut all trees except evergreens. Stand is composed primarily of aspen with other lowland species present.																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>3</td><td></td><td>19</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>White Pine</td><td>3</td><td></td><td>24</td><td></td></tr><tr><td>Yellow Birch</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>Quaking Aspen</td><td>72</td><td>Log</td><td>3</td><td>29</td></tr><tr><td>Northern White Cedar</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Hemlock</td><td>5</td><td>Seedling</td><td>9</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	3		19		Paper Birch	5	Log	2		White Pine	3		24		Yellow Birch	2		12		Quaking Aspen	72	Log	3	29	Northern White Cedar	10		12		Hemlock	5	Seedling	9								
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16	31021 - Cool Season Grass		3.5			Yes	Managed wildlife opening.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments												
17	4119 - Mixed Northern Hardwoods		17.4	92	111-140	N/A	Stand has a healthy diversity of hard and soft maple, basswood, x-log quaking, yellow and paper birch, beech, and hemlock and cedar in lower pockets. BA average is 112 BA. Sugar maple regen is low to trace. Higher quantity of Sugar Maples is dispersed throughout but has a lager presence in the southern portion of the stand. North east finger of stand was thinned in 1996 with Fingered Forty Aspen Sale.												
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size									
Basswood		5		14		Beech		Low	5 - 10 feet	5 - 10 feet									
Beech		5		16		Northern White Cedar		Low	Variable	Variable									
Northern White Cedar		4		11		Hemlock		Low	Variable	Variable									
Hemlock		4		12		Yellow Birch		Low	5 - 10 feet	5 - 10 feet									
Sugar Maple		40		16	92	Ironwood		Medium	Variable	Variable									
Red Maple		20		14		Witch Hazel		Low	Variable	Variable									
Paper Birch		12		13		Sugar Maple		Low	< 5 feet	< 5 feet									
Bigtooth Aspen		10		14		Red Maple		Medium	Variable	Variable									
18	3103 - Rubus-Fern	Unspecified	2.5			No	Sub-Canopy Species	Density	Avg. Height	Size	Good young aspen coming in around the edges - nice transition area for wildlife.								
19	42290 - Natural Mixed Pine	Sawtimber Medium	3.9	95	1-50	N/A	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Small natural red and white pine stand. Semi open stand with open grown natural pine.			
Quaking Aspen		10	Seedling	8		Balsam Fir											Low	Variable	Variable
Balsam Fir		10	Seedling	8		White Pine											Medium	Variable	Variable
Red Pine		30		12															
White Pine		50		11	95														
20	6220 - Alder/Willow	Unspecified	2.8			No	Sub-Canopy Species	Density	Avg. Height	Size	Lowland shrub, with scattered lowland trees.								
21	6220 - Alder/Willow	Unspecified	24.0			No	Sub-Canopy Species	Density	Avg. Height	Size	Alder lowland with a few balsam and cedar scattered along north and north east edge.								

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
22	42200 - Natural White Pine	Sawtimber Medium	24.4	95	111-140	N/A	Pine was thinned in 2008 (Liberty 18, 63-055-07-01), all balsam fir and aspen cut as well. Where pine was opened up there is a good flush of aspen and white pine regeneration. In other spots where over story pine is thicker there is limited understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		5		18		Balsam Fir		Low	Variable	Variable
White Pine		81		14	95	Aspen (spp.)		High	10 - 20 feet	10 - 20 feet
Red Maple		12		12		Red Pine		Low	Variable	Variable
Paper Birch		2		10		White Pine		Medium	Variable	Variable
23	4130 - Aspen		30.6	61	Unspecified	N/A	Aspen stand, some lowland characteristic on the edges. Light mix of pine and oak throughout. Log sized Beech is present but has BBD. Stand is dominated by a mix of Bigtooth and Quaking aspen. Red maple, paper birch, white pine, balsam fir, and red oak are also present in the canopy.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		45		10	61	Northern White Cedar		Low	Variable	Variable
White Pine		8		14		White Oak		Low	>20 feet	>20 feet
Balsam Fir		5	Seedling	6		Balsam Fir		Low	Variable	Variable
Red Oak		2		20		White Pine		Low	Variable	Variable
Red Maple		10		10		Black Cherry		Medium	Variable	Variable
Paper Birch		10	Seedling	8						
Bigtooth Aspen		20		11						
24	2113 - Forage Crops	Unspecified	3.7			Yes	Gated opening which was tilled and planted to rye in fall 2014 by wildlife division. Opening had not been planted prior.			
Sub-Canopy Species		Density	Avg. Height	Size						
St. Johns Wort		Medium	Not Applicable	Not Applicable						
Rye (annual)		Full	Not Applicable	Not Applicable						
Spotted Knapweed		Medium	Not Applicable	Not Applicable						
White Pine		Trace	>20 feet	>20 feet						
25	4130 - Aspen		37.1	61	51-80	N/A	Aspen dominated stand, with pine concentrated to the west border (heavy white pine regen). Rough two track access through most of stand, with a few mud holes and wet areas as road goes to east. Openings throughout but aspen is 120-150 BA where present.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Pin Oak (Southern)		2		10		White Pine		High	Variable	Variable
Red Maple		11		12		Balsam Fir		Medium	Variable	Variable
Quaking Aspen		70	Seedling	8	61					
White Pine		8		14						
Black Cherry		4	Seedling	6						
Northern White Cedar		2	Seedling	8						
Red Pine		3		12						
26	3103 - Rubus-Fern	Unspecified	1.0			No	Small opening.			
Sub-Canopy Species		Density	Avg. Height	Size						
Bracken Fern		High	Not Applicable	Not Applicable						
Spotted Knapweed		Low	Not Applicable	Not Applicable						
27	122 - Road/Parking Lot	Sapling Well	21.7			No	Roads/ right of ways throughout the compartment.			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
28	6118 - Lowland Deciduous with Cedar	Poletimber Medium	3.5	98	Unspecified	N/A	Low wetter pocket with a good mix of species. Too wet to facilitate final harvest.																																																																						
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30	4191 - Mixed Upland Deciduous with Conifer		11.9	65	51-80	N/A	Stand is composed of white pine and red maple log, with low quantities of black cherry pole/log. Pockets of dense white pine log exist throughout the stand with red maple evenly distributed. The subcanopy is dominated by aspen saplings approximately 2 to 3 inches in diameter. Low quantity of white oak and black cherry are throughout the subcanopy. Stand was cut in 2008 - 148 Pine mix #63-049-07-01. At that time stand was typed out as a Maple stand. Specs: Leave tree marked. Cut all species except red maple marked with green paint, do not cut white pine, cherry, oak.																																																																						
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31	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	1.3	95	Unspecified	N/A	Small lowland conifer pocket.																																																																						
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32	42200 - Natural White Pine		4.2	85	141-170	N/A	White pine (log) dominated stand with average BA or approximately 170 sq/ft. On the cusp of meet silvicultural criteria. Lacks understory regeneration.																																																																						
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33	6239 - Mixed Emergent Wetland	Unspecified	30.3			No	Standing water in western portion of stand. The rest is emergent wetland.																																																																						
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34	6118 - Lowland Deciduous with Cedar		10.0	87	51-80	N/A	Stand is composed of red maple, quaking aspen, paper birch (log size in some cases), and northern white cedar. Areas that are low and wet have ash regen and the occasional elm and yellow birch.																																																														
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Beech	Low	10 - 20 feet	10 - 20 feet																																																																		
Northern White Cedar	High	>20 feet	>20 feet																																																																		
Stand is too low/wet																																																																					

35	310 - Herbaceous Openland	Unspecified	7.4			Yes	Managed opening with dispersed white pine and cherry.																																													
				Sub-Canopy Species	Density	Avg. Height	Size		--------------------	---------	----------------	----------------		White Pine	Trace	>20 feet	>20 feet		Spotted Knapweed	Medium	Not Applicable	Not Applicable		Cherry (spp.)	Trace	>20 feet	>20 feet		Little Bluestem	Low	Not Applicable	Not Applicable		Red Maple	Trace	>20 feet	>20 feet		Bracken Fern	Medium	Not Applicable	Not Applicable		Rye (annual)	High	Not Applicable	Not Applicable					
36	6118 - Lowland Deciduous with Cedar	Sawtimber Well	5.0	75	51-80	N/A	Smaller stand of maple, cedar and aspen. Mostly lowland with cedar overtopped with aspen and red maple.																																													
	Canopy Species	% Cover	Size Class	DBH	Age		----------------------	---------	------------	-----	-----		Red Maple	50		12	75		Quaking Aspen	20		10			Northern White Cedar	30		10						Sub-Canopy Species	Density	Avg. Height	Size		--------------------	---------	-------------	----------		Balsam Fir	Medium	Variable	Variable					
37	6220 - Alder/Willow	Unspecified	3.5			No	Transitional stand between emergent wetland and aspen. Mixed aspen and pine in low to trace quantities.																																													
				Sub-Canopy Species	Density	Avg. Height	Size		--------------------	---------	-------------	-------------		Paper Birch	Low	>20 feet	>20 feet		Willow spp.	Medium	Variable	Variable		Dogwood (spp.)	Medium	5 - 10 feet	5 - 10 feet		Aspen (spp.)	Low	>20 feet	>20 feet		White Pine	Low	>20 feet	>20 feet		Nannyberry	Low	5 - 10 feet	5 - 10 feet										

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	4136 - Aspen, Mixed Conifer	Sapling Poor	43.1	7	Immature	N/A	Aspen stand was final harvested in 2019 (million dollar road aspen, #63-014-17) cut all 2" and more leave all red pine, white pine, hemlock, and cedar. Small less than 1 acre pocket was too wet to cut was left, was agreed to by forester and producer at time of sale. Sale was chipped.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		72	Log	1	7		
Balsam Fir		10	Log	1			
Red Maple		2	Log	1			
White Pine		9		12			
Black Cherry		2	Log	1			
Red Oak		3	Log	1			
Northern White Cedar		2		9			
39	31021 - Cool Season Grass	Unspecified	3.1			Yes	Managed wildlife opening.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Rye (annual)		Full	Not Applicable	Not Applicable	
40	6121 - Tamarack		20.9	126	1-50	N/A	Isolated band of tamarack, surrounded by lowland tag alder.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Seedling	9		Density	
Quaking Aspen		5		10		Avg. Height	
Tamarack		90		12	126	Size	
		Tag Alder		Medium	10 - 20 feet	10 - 20 feet	
		Black Cherry		Low	5 - 10 feet	5 - 10 feet	
42	6120 - Lowland Cedar	Sawtimber Medium	3.5	145	51-80	N/A	Lowland cedar pocket.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Seedling	8		Density	
Quaking Aspen		20		10		Avg. Height	
Black Ash		15		9		Size	
Northern White Cedar		60		11	145	Tag Alder	
		Tag Alder		Medium	10 - 20 feet	10 - 20 feet	
43	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	3.5	121	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Ash		2	Seedling	8		Density	
Balsam Fir		5	Seedling	7		Avg. Height	
Quaking Aspen		30	Seedling	7		Size	
Northern White Cedar		45		10	121	Balsam Fir	
Red Maple		15		8		Low	
Paper Birch		3	Seedling	7		Variable	

Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
44	6220 - Alder/Willow			94.5			No	Large lowland alder stand, with scattered tamarack, cedar, aspen and fir.... All too scattered to constitute a forested stand.					
									Sub-Canopy Species	Density	Avg. Height	Size	
									Paper Birch	Low	>20 feet	>20 feet	
									Tamarack	Low	>20 feet	>20 feet	
									Alder	High	5 - 10 feet	5 - 10 feet	
									Northern White Cedar	Low	Variable	Variable	
									Aspen (spp.)	Trace	>20 feet	>20 feet	
45	6220 - Alder/Willow	Unspecified		3.0			No	Low pocket of alder and willow with red maple poles dispersed throughout. Too wet for operations.					
									Sub-Canopy Species	Density	Avg. Height	Size	
									White Spruce	Low	>20 feet	>20 feet	
									Alder	High	5 - 10 feet	5 - 10 feet	
									Red Maple	Trace	Variable	Variable	
46	6229 - Mixed Lowland Shrub	Unspecified		7.2			No						
									Sub-Canopy Species	Density	Avg. Height	Size	
									Paper Birch	Low	>20 feet	>20 feet	
									Alder	Medium	5 - 10 feet	5 - 10 feet	
									Northern White Cedar	Low	Variable	Variable	
47	6130 - Fir, Aspen, Maple	Poletimber Medium		4.2	65	51-80	N/A	Stand is dominated by aspen with components of fir, white pine, cedar, hemlock and red maple. Lowland edges with higher ground in the center. Harvest potential is there however access to the stand is difficult and would need to be done in a frozen winter.					
									Canopy Species	% Cover	Size Class	DBH	Age
									Red Maple	5	Seedling	8	
									Quaking Aspen	50		9	65
									White Pine	10		10	
									Balsam Fir	20	Pole	4	
									Northern White Cedar	10	Sapling	6	
									Hemlock	5		11	
									Sub-Canopy Species	Density	Avg. Height	Size	
									Cattail spp.	High	Not Applicable	Not Applicable	
Red Maple	Medium	>20 feet	>20 feet										
Tag Alder	Medium	5 - 10 feet	5 - 10 feet										
White Pine	Medium	>20 feet	>20 feet										
48	6130 - Fir, Aspen, Maple	Sawtimber Well		5.9	105	51-80	N/A	Lowland mixed stand.					
									Canopy Species	% Cover	Size Class	DBH	Age
									Quaking Aspen	20		15	
									Red Maple	30		14	105
									Paper Birch	3	Seedling	7	
									American Elm	2	Seedling	8	
									Balsam Fir	25		9	
									Northern White Cedar	10		11	
									Hemlock	10		12	
									Sub-Canopy Species	Density	Avg. Height	Size	
Northern White Cedar	Low	Variable	Variable										
Balsam Fir	High	Variable	Variable										

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments								
50	6220 - Alder/Willow	Unspecified	1.5			No	Small pocket was too wet to cut and was left from a sale in 2019 (million dollar aspen) was agreed to by forester and producer at time of sale.								
								Sub-Canopy Species	Density	Avg. Height	Size				
								Red Maple	Trace	Variable	Variable				
								Alder	Medium	5 - 10 feet	5 - 10 feet				
								Dogwood (spp.)	Medium	5 - 10 feet	5 - 10 feet				
								Balsam Fir	Low	Variable	Variable				
								Tamarack	Trace	>20 feet	>20 feet				
51	4130 - Aspen	Sapling Well	8.7	7	Immature	N/A	Stand was final harvested in 2018 (Million Dollar Road Aspen, sale number 61-014-17-01), all pine was left. Gate was placed at road in 2019, to create walk in access only to small wildlife managed opening.								
								Canopy Species	% Cover	Size Class	DBH	Age			
								Bigtooth Aspen	90	Log	1	7			
								White Pine	10		12				
52	6220 - Alder/Willow	Unspecified	4.5			No	Low alder/willow pocket.								
								Sub-Canopy Species	Density	Avg. Height	Size				
								Paper Birch	Trace	10 - 20 feet	10 - 20 feet				
								Alder	Medium	5 - 10 feet	5 - 10 feet				
								Northern White Cedar	Trace	>20 feet	>20 feet				
								Aspen (spp.)	Low	>20 feet	>20 feet				
53	4136 - Aspen, Mixed Conifer		123.4	58	51-80	N/A	Very large aspen stand with considerable variability in quality and size. Quaking aspen is in low areas. Bigtooth exists on some higher ground, mostly in the north part of the stand. Balsam fir, white pine are moderately dispersed. Red oak, white oak, sugar maple, cedar, cherry, and red maple, are also present in low to trace quantities. Scattered lowlands and vernal ponds have been delineated on the ground and are reflected by the 2G (Too wet) site condition.								
								Canopy Species	% Cover	Size Class	DBH	Age			
								Quaking Aspen	42		9	58			
								Sugar Maple	2		15				
								Red Maple	2	Seedling	6				
								Bigtooth Aspen	25		11				
								White Oak	3	Seedling	6				
								Balsam Fir	10	Seedling	6				
								Red Oak	3		12				
								Northern White Cedar	2		9				
								White Pine	9		12				
								Black Cherry	2	Seedling	8				
								Sub-Canopy Species	Density	Avg. Height	Size				
								Balsam Fir	Low	Variable	Variable				
								White Pine	Low	< 5 feet	< 5 feet				
								Black Cherry	Low	5 - 10 feet	5 - 10 feet				
								Nannyberry	Low	5 - 10 feet	5 - 10 feet				
								54	4130 - Aspen	Sapling Well	13.6	17	Immature	N/A	Stand was final harvested in 2008, all oak, cherry and white pine were left where present. Came back well to mostly aspen. 37 and 10 MIX 36-046-07.
Black Cherry	3		10												
Red Maple	2	Log	1												
Quaking Aspen	87	Log	2	17											
Balsam Fir	8	Log	1												

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
55	6121 - Tamarack	Poletimber Well	1.1	70	51-80	N/A																																																																		
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56	6118 - Lowland Deciduous with Cedar		67.2	124	51-80	N/A	Large lowland complex of cedar mixed with pockets of wet aspen and maple. Variable stand with some pockets of just cedar with others that are just flooded out aspen. Blow down is heavy in pockets, with some pockets of just flooded and tag alder.																																																																	
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57	6112 - Lowland Aspen		16.1	80	1-50	N/A	Very wet aspen stand with has full alder coverage in the understory. Aspen is gradually falling out of stand, standing water in many spots.																																																																	
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58	4319 - Mixed Upland Forest	Sawtimber Well	2.2	62	111-140	N/A	Small island of aspen, white pine, and red maple with hemlock and cedar on the western edge. X-Log white pine mixed throughout. Small tributary on the west edge contains flowing water and a majority of the stand falls within RMZ of Manton Creek.																																																																	
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60	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	17.7	85	81-110	N/A	Stand was marked thinning in 2010, all aspen and maple was cut . Sale covered most of current stand, although there are two pole aspen clones that were not cut in sale. Too small to be mapped on there own. Aspen clones will be included when stand in treated in future YOE. Stand canopy is dominated by white pine logs (trace to low quantities of x-log's white pine are dispersed throughout). Low quantities of aspen, sugar maples, and oaks in openings. Aspen pole/log pockets are predominantly on the eastern edge of the stand.The understory is well stocked with white pine saplings varying in height and average age being approximately 15 years.																																																			
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Witch Hazel	Trace	5 - 10 feet	5 - 10 feet																																																							
61	6239 - Mixed Emergent Wetland	Unspecified	5.4			No	Open lowland stand with red maple, cedar, balsam poplar, and quaking aspen dispersed in low quantity throughout. Flows east towards Manton Creek. Some portion of the stand east of 39 1/2 was final harvested with Liberty Aspen (Sale# 63-056-07-01) in 2008.																																																			
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62	6130 - Fir, Aspen, Maple		3.9	60	51-80	N/A	Small finger containing primarily balsam fir with quaking aspen and red maple. Leave stand for wildlife as its adjacent to low wet areas and a previously cut aspen stand.																																																			
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64	4319 - Mixed Upland Forest	Poletimber Well	2.9	65	81-110	N/A	Island of aspen, spruce, and fir. Better left as an edge and to provide structural diversity within lowland stand.																																																			
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65	3105 - Mixed Upland Herbaceous	Unspecified	1.3			No	Small opening.																																																			
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66	211 - Cropland		10.4			Yes	Recently plowed rye field. Road access and scattered trees.	
67	4130 - Aspen		5.7	23	Immature	N/A	Stand was final harvested in 2002. Lowland hardwood was management objective. Mixed regeneration from timber sale and habitat cut. Small northern portion of northern piece was not able to be done commercially so was completed in 2004 with Baldwin Wildlife crew. (Trees dropped and left) Regenerated to mostly aspen with some mixed hardwood and balsam fir. Wet in spots.	
70	4130 - Aspen	Sapling Well	78.1	7	Immature	N/A	Stand was final harvested in 2018 (Million Dollar Road Aspen# 63-014-17); cut all trees 2 inch and greater except leave all red pine, white pine, hemlock and cedar and two vernal ponds were left out of sale. sale was chipped.	
71	42100 - Planted White Pine		5.2	74	111-140	N/A	Pine was thinned in 2008 (37 and 10 MIX 36-046-07) with all aspen and maple cut as well. Maple and aspen and white pine regeneration are present in the understory. BA is too low to re-enter stand.	
72	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	1.4	53	1-50	N/A	Wet pocket in the middle of mostly upland aspen.	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
73	4130 - Aspen	Poletimber Well	52.4	55	111-140	N/A	Aspen dominated stand with minor components of red maple, cherry, and white pine. Understory is open with low quantities of oak, aspen, and red maple.																																																																	
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76	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	4.4	70	51-80	N/A	Small upland islands in the middle of cattail marsh. Red maple, white pine, quaking aspen, paper birch, and white oak present.																																																																	
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79	2113 - Forage Crops		6.0			Yes	Managed wildlife opening.																																																																	
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81	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	10.7	95	51-80	N/A	Stand is dominated by cedar and hemlock with white pine and hemlock super canopy. Hemlock and Cedar dominate this stand and flow west to east following the edge of lower/wet areas of seasonal drainages and emergent wetlands. Burned stumps present.																																																																	
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Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments		
82	4130 - Aspen	Sapling Well			26.6	17	Immature	N/A	Stand was final harvested in 2008 (37 and 10 MIX 36-046-07), all white pine, oak and cherry were left as retention. Areas of lowland mixed in along east line. Most of the mature white pine is scattered along 10 rd.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density		Avg. Height	Size
Red Maple		2	Log	2		Willow spp.		Low		10 - 20 feet	10 - 20 feet
Quaking Aspen		87	Log	3	17						
Red Oak		2	Log	1							
White Pine		2		15							
White Pine		2	Log	1							
Black Cherry		5	Log	1							
83	6229 - Mixed Lowland Shrub				34.9			No	Flooded out alder stand with maple, ash, cedar and tamarack in center of stand.		
Sub-Canopy Species		Density	Avg. Height	Size							
Red Maple		Medium	Variable	Variable							
Black Ash		Medium	Variable	Variable							
Tamarack		Medium	>20 feet	>20 feet							
Willow spp.		High	Variable	Variable							
Northern White Cedar		Medium	Variable	Variable							
Alder		High	5 - 10 feet	5 - 10 feet							
84	4130 - Aspen	Sapling Well			32.1	7	Immature	N/A	Decent quality aspen stand. Stand was final harvested in 2018 (million dollar road aspen #63-014-17) cut all species 2 inch or more except leave red pine, white pine, hemlock, and cedar. Retention island around vernal pond was left. Sale was chipped.		
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		10	Log	1							
Quaking Aspen		81	Log	1	7						
White Pine		2		11							
Red Pine		2		12							
Red Oak		3	Log	1							
Northern White Cedar		1		8							
Hemlock		1		9							
89	42100 - Planted White Pine				2.0	74	171-200	N/A	Planted in 1951. Stand was row thinned in 1996 and marked thinned in 2010. The average BA is on the high end of 170. White pine log is the only species present other than black cherry which is in low to trace quantities. The understory is dominated by red maple with low quantities of beech and white pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density		Avg. Height	Size
White Pine		98		12	74	Red Maple		High		Variable	Variable
Black Cherry		2		9		Beech		Low		5 - 10 feet	5 - 10 feet
						White Pine		Trace		< 5 feet	< 5 feet
90	42111 - Planted Red Pine, Mixed Deciduous				98.3	7	Immature	N/A	Red pine plantation planted in 2018. Release sprayed in 2019 and again in late summer/early fall of 2024. Stand is dominated with red pine that looks healthy. Red maple and quaking aspen are the dominant competitors with lower quantities of black cherry and oak. Spring should reveal true mortality of competition from spraying.		
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		6	Log	2							
Red Pine		80	Log	1	7						
Red Oak		2	Log	2							
Black Cherry		4	Log	2							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
99	4130 - Aspen	Sapling Well	1.1	29	Immature	N/A	Small habitat cut, which has came back well to aspen. Mostly upland but gets wet to the west.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	90	Log	2	29	Dogwood (spp.)	Low	5 - 10 feet	5 - 10 feet
Tamarack	10	Log	1		Tag Alder	High	10 - 20 feet	10 - 20 feet
100	4133 - Aspen, Mixed Pine		6.4	62	111-140	N/A	Complex of aspen mixed with red maple and white pine. Low quantities of paper birch, yellow birch, black cherry, hemlock and cedar are dispersed throughout. Road and utility right-of-way transect stand. X log pine is concentrated in NW corner.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	47		9	62	White Pine	Medium	>20 feet	>20 feet
Red Maple	15		9		Balsam Fir	Low	>20 feet	>20 feet
Paper Birch	3	Seedling	7		Red Maple	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	2	Seedling	8		Paper Birch	Trace	>20 feet	>20 feet
Hemlock	3		14	120	Hemlock	Low	>20 feet	>20 feet
White Pine	25		10					
White Pine	5		28					
104	4136 - Aspen, Mixed Conifer	Poletimber Well	20.9	58	51-80	N/A	Mostly decent quality pole aspen with thick white pine and fir understory. Southeast corner transitions to more of a white pine and red maple mix. Scattered x log white pine in stand. Low quantity of log white oak as well. West side edge has good quality big tooth. Northwest more pine understory. Lower wet spot runs west to east along the north edge of the stand. Some component of the south west corner of the stand was harvested with Liberty Aspen (Sale# 63-056-07-01)	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	32		10	58	Yellow Birch	Trace	Variable	Variable
Red Pine	1		21		White Pine	High	5 - 10 feet	5 - 10 feet
White Oak	5		11		Black Cherry	Low	>20 feet	>20 feet
White Pine	15		14		Red Maple	Low	>20 feet	>20 feet
Black Cherry	2		8		Paper Birch	Low	Variable	Variable
Northern White Cedar	2		13		White Oak	Low	10 - 20 feet	10 - 20 feet
Hemlock	2	Seedling	8		Balsam Fir	High	Variable	Variable
Red Maple	10		9					
Paper Birch	1		10					
Bigtooth Aspen	30		11					
105	6239 - Mixed Emergent Wetland	Unspecified	51.2			No	Open lowland stand dominated by cattail and tag alder. Low quantities of single trees and clumps dispersed throughout and along edges including balsam fir, white cedar, quaking aspen, and red maple.	
Sub-Canopy Species	Density	Avg. Height	Size					
Cattail spp.	High	Not Applicable	Not Applicable					
Quaking Aspen	Low	>20 feet	>20 feet					
Northern White Cedar	Low	Variable	Variable					
Balsam Fir	Low	10 - 20 feet	10 - 20 feet					
Balsam Poplar	Trace	Variable	Variable					
Red Maple	Low	Variable	Variable					
Tag Alder	High	5 - 10 feet	5 - 10 feet					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
106	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	14.8	90	1-50	N/A	Southwestern portion of the stand was final harvested in the early 2000's (2000 - 2002) during a wildlife cedar final harvest, which largely flooded out to cattails. Some balsam fir and lowland hardwood scattered regeneration. Overall wet cattails now. Perimeter was left for mix of log aspen, maple, fir and white pine. The stand does contain small islands of mature aspen, red maple, and cedar. Most edges of the stand are dominated with balsam fir, spruce, tamarack, and cedar with trace quantities of hemlock.																																																				
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107	3301 - Low Density Deciduous Trees	Unspecified	3.5			No	Small opening with scattered aspen, maple and white pine. Some aspen filling in, but overall and unforested opening.																																																				
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108	4134 - Aspen, Spruce/Fir	Sawtimber Well	6.8	70	81-110	N/A	Stand was treated in 2008, all white pine was left. Created two aged stand. Some scattered "Legacy", x-log white pines.																																																				
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110	42200 - Natural White Pine	Sawtimber Well	5.2	104	111-140	N/A	Manton creek and its flood plains.																																																				
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113	6220 - Alder/Willow	Unspecified	4.8			No																																																					
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114	6233 - Wet Meadow	Unspecified	9.9			No	Meadow/ flood plain created from past beaver activity. White pine and cedars dispersed throughout.
115	42201 - Natural White Pine, Mixed Deciduous		5.6	80	171-200	N/A	Log white pine stand with a mix of aspen and red maple. X-Log "legacy" white pines mixed throughout. Pockets of high BA (190-210) to the north are devoid of regen with lighter more open pockets to the south (120). Average BA 170-180. Land owner to the east Jay Robbins (cell 616 302 0601) gave verbal permission to utilize his property.
116	310 - Herbaceous Openland		7.9			No	Old wildlife opening which has not been maintained. Filling in with white and red pine. Autumn Olive planted around the edges.
117	4130 - Aspen		31.4	7	Immature	N/A	Stand was final harvested in 2018. (Million Dollar Road Aspen #63-014-17) Cut all 2" and great, except leave red pine, white pine, hemlock, and cedar. All pine was left along with retention island as shown in site condition layer. Access came through private, site was chipped .
118	4130 - Aspen	Sapling Well	65.0	15	Immature	N/A	Stand was final harvested in 2010 - Liberty Aspen (Sale #: 63-056-07-01) Did not cut: Oak, beech, sugar maple, white cedar, and green marked trees.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
119	6120 - Lowland Cedar	Sawtimber Well	26.2	92	81-110	N/A	Lowland cedar pocket with red maple, aspen, and hemlock mixed throughout. Borders Manton Creek on west side.																																																																					
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122	4319 - Mixed Upland Forest	Sapling Poor	2.6	27	Immature	N/A	Habitat cuts performed in 1999. All Hemlock was left. Aspen saplings present																																																																					
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123	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	7.6	65	111-140	N/A	Diverse complex of aspen, cedar, fir, hemlock and red maple. Wet in pockets with defendant lowland character.																																																																					
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124	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	2.7	29	Immature	N/A	Habitat cut. Came back to a mix, lowland character.																																																																					
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126	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	6.2	55	51-80	N/A	Opening near lowland area that is closing in. Typical old field succession to white pine with various recruitment cohorts. Mostly sweet fern and bracken ground cover, but some blueberry present.																																																																					
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128	42200 - Natural White Pine	Sawtimber Well			12.5	85	81-110	N/A	Pine was thinned in 2008 (Magnum Pine -#63-057-07-01: Cut Tree Mark White Pine, cut all aspen and red maple). Access is through private from the south - Magnum Kennels.Log/pole size white pine and red pine with pole sized red and white oak mixed throughout. Red maple, white and red pine and oak compose the understory. Stand looks great after the last thinning.																																																								
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129	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium			12.5	65	1-50	N/A	Variable stand of red maple, oak, cherry and aspen. Red maple pole and wolfy, x-log are found throughout but dominate the central portion of the stand in openings. Moderate stocking of red oak, approximately 11 to 12 DBH, dispersed in the center/ north east portion of the stand. Small plantation of red pine in the southwest most likely residual from adjacent planting. Maintain for structural diversity for adjacent stands and for hard mast.																																																								
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130	6229 - Mixed Lowland Shrub				8.6			No	Lowland shrub and marsh surrounding creek. Very moist soil making crossing the creek for future timber harvest difficult.																																																								
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131	4130 - Aspen	Sapling Poor			5.2	17	Immature	N/A	Stand was final harvested in 2008. All oak was left. Aspen regenerated well. Railroad track to west.																																																								
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132	4133 - Aspen, Mixed Pine	Poletimber Well	15.0	65	51-80	N/A	Stand is dominated by Aspen which is split between big tooth and quaking. Quaking Aspen exists in higher presence in the southwest and southern border of the stand though its low quality. Big tooth is in the Northeast portion of the stand and is good quality and size. White pine is present in moderate to high quantities in the north east corner and in low to trace amounts throughout. White pine advanced regeneration is moderate. Other miscellaneous species throughout the canopy include pole size red maple, pole size red and white oak. Jack pine and red pine show low presence in the southwest corner.																																																																																				
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135	4130 - Aspen	Sapling Well	8.7	28	Immature	N/A	Stand was final harvested in 1997. Access was though private to the south. Came back well to aspen .																																																																																				
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136	4310 - Pine, Oak Mix	Poletimber Well	5.2	75	111-140	N/A	Mixed stand that transitions from plantation to the natural stand to the west. Heavily stocked on the south end with white pine logs. X - log wolfie white oaks are dispersed throughout with deciduous and mixed pine in the northern portion of the stand.																																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
137	42110 - Planted Red Pine	Poletimber Well	24.4	50	141-170	N/A	Stand thinned by Lutke Forest Products (Magnum Pine #63-057-07-01) in 2009. light thinning... every fourth row. Access through private (Magnum Kennels). Stand thinned again in 2017, marked second thinning (148 Pine #63-003-17-01). Access again through private. Stand looks good but does not meet silvicultural criteria to be thinned. Allow trees to add more girth.
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Oak	5		16		
		White Pine	2		9		
		Red Pine	93	Seedling	9	50	
138	42110 - Planted Red Pine	Sawtimber Well	31.9	69	111-140	N/A	Planted in 1956 Stand third row thinned in 1996 and marked second thinning in 2010. Third thinning took place in 2017. Good quality stand with an average of 130 BA and nice size logs 11 to 14 inch average. Crowns are healthy and with time and space trees should add girth prior to final harvest.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	100		11	69	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Oak	Low	5 - 10 feet	5 - 10 feet		
		Black Cherry	Low	5 - 10 feet	5 - 10 feet		
140	6120 - Lowland Cedar	Poletimber Medium	30.4	89	Unspecified	N/A	Lowland cedar with some lowland hardwood mixed in. Streams run through most of the stand.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	10		8		
		Quaking Aspen	5		10		
		Tamarack	5	Seedling	8		
		Black Ash	15	Seedling	7		
		Northern White Cedar	60		9	89	
		Hemlock	5		11		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Black Ash	Medium	10 - 20 feet	10 - 20 feet		
		Balsam Fir	Low	10 - 20 feet	10 - 20 feet		
		Black Cherry	Low	5 - 10 feet	5 - 10 feet		
141	4133 - Aspen, Mixed Pine	Poletimber Well	3.8	55	81-110	N/A	Stand is primarily aspen with pockets of log white pine. Aspen is low quality.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Balsam Fir	5	Seedling	6		
		Quaking Aspen	70		9	55	
		White Pine	20		11		
		Red Maple	5	Seedling	8		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet		
		White Pine	Medium	5 - 10 feet	5 - 10 feet		
		Jack Pine	Low	5 - 10 feet	5 - 10 feet		
142	42201 - Natural White Pine, Mixed Deciduous	Poletimber Poor	2.3	65	1-50	N/A	Small sliver of white pine and cherry with an abundance of fern.
		Canopy Species	% Cover	Size Class	DBH	Age	
		White Pine	60	Seedling	8	65	
		Black Cherry	40	Seedling	7		
143	42110 - Planted Red Pine	Poletimber Well	20.5	53	111-140	N/A	Planted in 1972 per planting record. Stand was third row thinned in 2017. Overall the stand looks to be of good quality. Average BA is 140/150. Not ready to be entered at this time but should add girth between now and the next inventory cycle.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	98	Seedling	8	53	
		White Pine	2		10		
144	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.6	75	51-80	N/A	Small ridge of aspen and red maple.. Surrounded by private and swamp to north.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	40		14		
		Quaking Aspen	58		12	75	
		Beech	2		12		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Low	5 - 10 feet	5 - 10 feet		
		Black Cherry	Low	5 - 10 feet	5 - 10 feet		
		Balsam Fir	Low	5 - 10 feet	5 - 10 feet		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
145	42220 - Natural Jack Pine	Sapling Well	43.4	29	Immature	N/A	Old Jack pine strips which were final harvested in 1996. An attempt was made to plant to red pine, but jack pine beat out the red and it has fallen out. Some pockets where red pine still hanging in a little but overall failure. Stand is dominated by jack pine with low to moderate quantities of red pine. Red pine is present but has been outcompeted by Jack pine. Pockets of aspen are dispersed throughout. Low to trace quantities of red maple and white pine are mixed throughout as well. Trace quantities of red and white oak are present in the understory. During 2037 YOE if red pine in stand has persisted and outgrown jack pine consider thinning, otherwise final harvest with stand 138 (R9) and 141 (A6) and replant.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Red Pine	25	Log	4		White Pine	Trace		< 5 feet	< 5 feet	
White Pine	3	Log	4		Red Oak	Low		5 - 10 feet	5 - 10 feet	
Jack Pine	60	Pole	4	29	Red Maple	Trace		5 - 10 feet	5 - 10 feet	
Black Cherry	3	Log	2		Bracken Fern	Low		Not Applicable	Not Applicable	
Red Maple	3	Log	3							
Bigtooth Aspen	6	Log	3							
146	4123 - Red Oak		4.1	72	111-140	N/A	Northern portion of the stand has a component of larger oak that is older. Subcanopy oak are on the south side beneath aspen mixed with pine. Various ages of oak and pine. White pine concentrated on south side.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Red Oak	67		12	72	Red Maple	Low		>20 feet	>20 feet	
White Pine	20		10	65	White Oak	Medium		>20 feet	>20 feet	
White Pine	3		18		Red Oak	Low		10 - 20 feet	10 - 20 feet	
Red Maple	5	Seedling	6		White Pine	High		Variable	Variable	
Bigtooth Aspen	5	Seedling	7							
148	4133 - Aspen, Mixed Pine	Poletimber Well	5.6	47	81-110	N/A		Stand is composed of quaking aspen, red maple, red oak and white pine with trace quantities of jack pines and red pine. Eastern edge and center of the stand drops into a drainage where the canopy is dominated by hardwoods and aspen. White pine dominates upland area and the odd red pine and jack pine occupy more open areas. Aspen is not ready to be harvested. Hold for another inventory cycle. BMPs for Manton Creek need to be maintained as it is a high priority trout stream (300ft buffer).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size	
Red Maple	20	Seedling	7		White Pine	Medium	10 - 20 feet		10 - 20 feet	
Quaking Aspen	55	Seedling	7	47	Quaking Aspen	Medium	>20 feet		>20 feet	
White Pine	20		15		Red Pine	Low	10 - 20 feet		10 - 20 feet	
Red Oak	5	Seedling	8		Red Maple	Low	5 - 10 feet		5 - 10 feet	
					Red Oak	Low	5 - 10 feet		5 - 10 feet	
149	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Poor	2.2	65	1-50	N/A	Failed area of the red pine, scattered open grown stubby red pine. Potential good area for future landing if needed.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Red Pine	70	Seedling	8	65	White Pine	Low		Variable	Variable	
	Black Cherry	30	Seedling	6		Jack Pine	Medium	< 5 feet	< 5 feet	
151	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	47.7	9	1-50	N/A	Stand is well stocked with red pine, with a low stocking level of jack pine from adjacent stands. Red maple, black cherry, big tooth aspen, white and red oak are mixed throughout. Some variability in canopy cover and species composition throughout the stand, but overall good looking red pine that should be successful in the future. Red pine which was final harvested in 2010. Trenched in 2011 and planted to red pine in 2012 and replanted again in 2014. . Bare root seedlings. Only around a foot tall or less in fall 2014. Seedling appear they will make it this time. Replanted,... again in 2016. REGEN CHECK 2018: trenches have filled in. No more action needed. Site is stocked with red pine, with pockets of aspen regen and oak that will shade out some portions of the plantation.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Red Maple	5	Log	1		Bracken Fern	Low		Not Applicable	Not Applicable	
Bigtooth Aspen	5	Log	1		Spotted Knapweed	Low		Not Applicable	Not Applicable	
Red Pine	70	Log	2	9						
White Oak	5	Log	1							
Red Oak	2	Log	1							
Jack Pine	10	Log	1							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
152	429 - Mixed Upland Conifers		4.1	65	1-50	N/A	Small open grown stand of planted tamarack, and scattered natural white pine. Close to being non forested stand, may be a good spot for future landing of pine to north.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	30		12		Bracken Fern	Medium		Not Applicable	Not Applicable
Black Cherry	2	Seedling	6		Tamarack	Low		Variable	Variable
Scotch Pine	28		6		White Pine	Low		Variable	Variable
Tamarack	40		10	65	Scotch Pine	Low		Variable	Variable
153	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.7	88	51-80	N/A	Small isolated upland ridge of aspen, maple, fir and pine. BMPs and access issues are present do to private and creek.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	30		11		Red Maple	Low		>20 feet	>20 feet
White Pine	5		15		Beech	Low		5 - 10 feet	5 - 10 feet
Balsam Fir	5	Seedling	8		White Oak	Low		>20 feet	>20 feet
Red Maple	58		10	88	Balsam Fir	Medium		Variable	Variable
Paper Birch	2	Seedling	7		White Pine	Low		5 - 10 feet	5 - 10 feet
					Black Cherry	Low		10 - 20 feet	10 - 20 feet
154	4130 - Aspen	Sapling Well	4.5	17	Immature	N/A	Stand was final harvested in 2008. Came back well to aspen. A few areas are more open and flooded out but overall came back to aspen.		
Canopy Species	% Cover	Size Class	DBH	Age					
Balsam Fir	5	Log	1						
Red Maple	10	Log	2						
Paper Birch	5	Log	1						
Quaking Aspen	80	Log	2	17					
156	4136 - Aspen, Mixed Conifer	Poletimber Well	3.3	57	81-110	N/A	Small ridge of aspen along with some conifer. Log/pole aspen in good shape. Small cedar and hemlock pocket in stand. Stand composition is dominated by pole/log Bigtooth Aspen, followed by Quaking Aspen. Other canopy species include Red Maple (Pole) , White pine (Log) , North white Cedar (Pole) and Hemlock. Stand meets silvicultural criteria based on age.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	25		9		Beech	Trace		5 - 10 feet	5 - 10 feet
Balsam Fir	5	Seedling	8		White Pine	Low		5 - 10 feet	5 - 10 feet
White Pine	15		12		Black Cherry	Low		5 - 10 feet	5 - 10 feet
Northern White Cedar	5	Seedling	6		Balsam Fir	Low		10 - 20 feet	10 - 20 feet
Hemlock	2	Seedling	6						
Red Maple	5	Seedling	7						
Bigtooth Aspen	43		10	57					
157	4136 - Aspen, Mixed Conifer	Sapling Well	5.6	17	Immature	N/A	Stand was final harvested in 2008 (Liberty 18 , 63-055-07-01) with all white pine left. Scattered pole white pine with a solid flush of aspen filling in. Will be a aspen stand with scattered log white pine in the future.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	5	Log	3						
White Oak	5	Log	1						
Balsam Fir	2	Log	1						
Quaking Aspen	70	Log	2	17					
White Pine	18		8						

Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments														
158	3105 - Mixed Upland Herbaceous	Unspecified	1.6				No	Natural opening on the edge of private. Sapling white pine and jack pine are dispersed throughout in low quantities. Single saplings of red maple, oak, and cherry are mixed in as well. Southern pocket has trace quantities of log quaking aspen. White Pine could seed in from adjacent stand.														
									Sub-Canopy Species	Density	Avg. Height	Size										
									Mixed Sedges/Grasses	Medium	Not Applicable	Not Applicable										
									Quaking Aspen	Trace	>20 feet	>20 feet										
									Red Maple	Trace	>20 feet	>20 feet										
									Bracken Fern	Low	Not Applicable	Not Applicable										
									White Pine	Low	10 - 20 feet	10 - 20 feet										
									Jack Pine	Trace	>20 feet	>20 feet										
									Oak (spp.)	Trace	>20 feet	>20 feet										
161	6120 - Lowland Cedar	Poletimber Well	61.3	92		81-110	N/A	Stand dominated by Cedar with components of Hemlock, Paper Birch, Red Maple, Yellow Birch and Big tooth Aspen. Cold water stream runs throughout the stand. The stand is too low and wet for conventional harvest methods.														
									Canopy Species	% Cover	Size Class	DBH	Age									
									Tamarack	7		9										
									Yellow Birch	4	Seedling	7										
									White Pine	5		15										
									Northern White Cedar	51		11	92									
									Hemlock	5		18										
									Black Ash	5	Seedling	6										
									Red Maple	10		8										
									Paper Birch	8		9										
									Bigtooth Aspen	5		8										
									Sub-Canopy Species	Density	Avg. Height	Size										
									Beech	Low	10 - 20 feet	10 - 20 feet										
									Balsam Fir	Medium	5 - 10 feet	5 - 10 feet										
									Red Maple	Low	>20 feet	>20 feet										
									Tag Alder	Medium	5 - 10 feet	5 - 10 feet										
									162	4136 - Aspen, Mixed Conifer	Poletimber Well	9.1	56		51-80	N/A	Small ridge of mostly aspen with scattered log white pine. Upland stand for the most part but surrounded by swamp and creek borders stand. Aspen approaching log overall.					
																		Canopy Species	% Cover	Size Class	DBH	Age
																		Paper Birch	10	Seedling	5	
Balsam Fir	5	Seedling	6																			
Quaking Aspen	66		9	56																		
White Pine	15		15																			
Northern White Cedar	2		10																			
Hemlock	2		12																			
Sub-Canopy Species	Density	Avg. Height	Size																			
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet																			
185	42141 - Planted Mixed Pine, Mixed Deciduous		15.3	14		Immature	N/A	Stand was final harvested in 2008 (37 and 10 MIX 36-046-07) and then planted to red pine and white pine. Scattered over story left from harvest. Stand was trenched in 2010 and then planted in 2011 with 2-0 seedlings. Mixed stand. Red Pine, jack pine, and white pine dominant. Pole/log cherry and white pine mixed throughout in low quantities.														
									Canopy Species	% Cover	Size Class	DBH	Age									
									Red Maple	10	Log	1										
									White Pine	25	Log	2	14									
									White Pine	2		13										
									Jack Pine	15	Log	2										
									Black Cherry	10	Log	3	14									
									Black Cherry	2		12										
									Sub-Canopy Species	Density	Avg. Height	Size										
									Bracken Fern	Medium	Not Applicable	Not Applicable										

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
201	6120 - Lowland Cedar	Sawtimber Well	17.8	101	51-80	N/A	Manton Creek corridor. Nice lowland conifer complex. Mostly cedar but some pockets are heavier to hemlock.																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>5</td><td></td><td>16</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>18</td><td></td></tr><tr><td>Northern White Cedar</td><td>69</td><td></td><td>14</td><td>101</td></tr><tr><td>Hemlock</td><td>14</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td></td><td>10</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	5		16		White Pine	2		18		Northern White Cedar	69		14	101	Hemlock	14		12		Red Maple	5		12		Paper Birch	5		10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Variable
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217	6220 - Alder/Willow	Unspecified	4.2			No	Habitat cut in 2000-2001. Was cedar, which following cut flooded out and is now mostly alder and willow. Some remnant cedar on the southern perimeter still stand.																																										
			<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Northern White Cedar</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Willow spp.</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High	10 - 20 feet	10 - 20 feet	Northern White Cedar	Low	>20 feet	>20 feet	Willow spp.	Medium	5 - 10 feet	5 - 10 feet																											
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340	6112 - Lowland Aspen	Sapling Well	6.4	22	Immature	N/A	Habitat cut in winter of 2003. Came back thick to aspen, maple and some paper birch. Was mostly cedar before habitat cut.																																										
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