

Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63139

Entry Year: 2027

Acreage: 2,962

County: Wexford

Management Area: Cadillac Moraines

Stand Examiner: Ryan Adamczyk

Legal Description:

T22N, R9W, Sec. 4-9, 17

T23N, R9W Sec.17, 19

T23N, R10W Sec. 13-16

Identified Planning Goals:

Vegetation management in the Upper Muskegon management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

Soil and topography:

Montcalm, Rubicon and Kalkaska sands. Undulating upland and well drained with a few low areas.

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

Block in state ownership in areas of the compartment where pieces are missing or private lands are interrupting contiguous state ownership. There are 2 outlying parcels that should be considered for disposal or trade. T22N R9W Sec.17 NENW is a 40 acre land locked parcel that has been inaccessible for management up to this point. T23N R09W Sec. 17 SENE there is a 5 acre land locked parcel along the Manton Creek. The proximity of this compartment to the City of Cadillac leads to increased hunting and recreational pressures. There is an ORV trail in the compartment that receives a considerable amount of use.

Unique Natural Features:

Potential for great blue heron rookery, red shouldered hawk, goshawk, and box turtle. Also potential for ebony boghaunter and secretive locust in bogs.

Archeological, Historical, and Cultural Features:

Missaukee junction railroad intersection. Logging camp and woodland mound listed.

Special Management Designations or Considerations:

Silvicultural guidelines will be followed for all forestry treatments prescribed in the compartment.

Watershed and Fisheries Considerations:

The only surface water in the compartment is Bonds Mill Pond and a couple other unnamed ponds. All of these are water table ponds, subject to the vagaries of nature. None of them have fish populations. There is one flowing stream that touches the compartment and has a native trout population.

Wildlife Habitat Considerations:

This compartment provides valuable deer and turkey habitat. A continuation of maintaining a variety of cover types and various age classes of those types will continue to favor a variety of game and non-game species. Featured species of special interest include deer, woodcock, golden-winged warbler and ruffed grouse. 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 an end moraine of coarse-textured till, lacustrine sand and gravel and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 1,000 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations and the Mississippian Bayport Limestone and Michigan

Formation. The Saginaw is quarried for clay for bricks, the Bayport for limestone and the Michigan Formation for gypsum, all in other areas of the State. Gravel pits are located in the area and potential is good. This area is located several miles south of the prolific Silurian Niagaran reef trend. Oil and gas has limited potential in the Compartment and none of the State lands are leased for oil and gas exploration.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. There are numerous roads in excess of the access needs in the area, and are a threat to the resources, or are a concern environmentally. A road closure plan should be implemented to reduce resource damage in the compartment.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

The entire 18 mile Missaukee Junction ORV trail is located within this compartment. This 50 inch trail is designed for ATV's, and receives considerable use due to it's close proximity to Cadillac. Utilizing trail protection specifications & considerations such as promoting a winter harvest, and flush cutting stumps directly adjacent to the trail are suggested harvesting practices. Specifically, appropriate measures identified in DNR Policy & Procedures "32.22XX" (Best Management Practices for Forest and Wildlife Management Adjacent to Recreation Trails) should be considered when setting up timber sales within this compartment. Hunting, and some limited fishing opportunities in Manton Creek are available within this compartment. (T.M.N. 12/17/14).

Fire Protection:

Road access is limited to some of the compartment, which will limit fire response. Dispersed camping and ORV activities can be a cause for wildfires in the compartment.

Additional Compartment Information:

A small portion of the compartment lies on the east side of U.S.131 it is recommended to remove this from compartment 139 and merge with compartment 141. The proximity of the compartment to urban centers leads to an increased amount of illegal dumping.

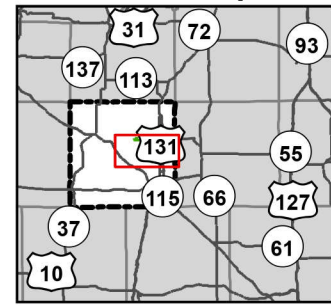
The following reports from the Inventory are attached:

- 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**

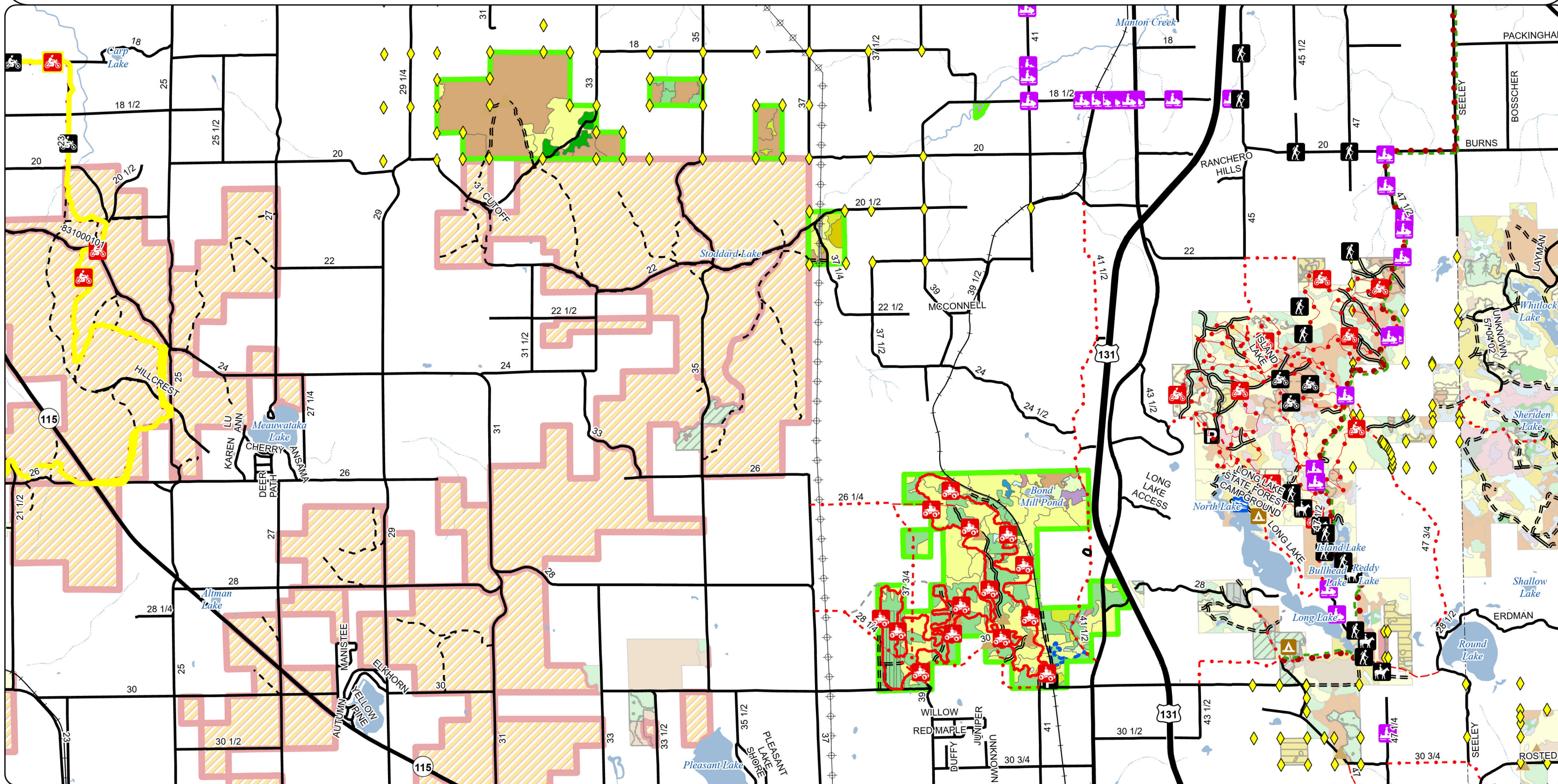
Cover Type & Treatments Map



Compartment: 63139
T23N, R09W, Sec. 17, 19
T23N, R10W, Sec. 13-16
T22N, R09W, Sec. 04-09, 17
County: Wexford
Unit: Cadillac
Mgmt. Area: Cadillac Moraines
YOE: 2027
Acres: 2,962 GIS Calculated
Examiner: Ryan Adamczyk
Date Exported: 7/15/2025
Map Phase: Web Post

0 0.5 1 Miles

- Survey Grade Corners
- Berms
- Boating Access Site
- Campground
- Parking Lot
- Designated Equestrian Trails
- Designated Motorcycle Trails
- Designated ATV Trails
- Designated MCCCT Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel 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
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland
- 629 - Mixed non-forested Wetland



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Survey Grade Corners

Berms

DNR - Forest Access Route

Federal / State / County - Paved Road

Federal / State - Dirt / Gravel Road

Intermittent Stream

Lakes and Rivers

Counties

Powerline

Compartment Boundary

411 - Northern Hardwood

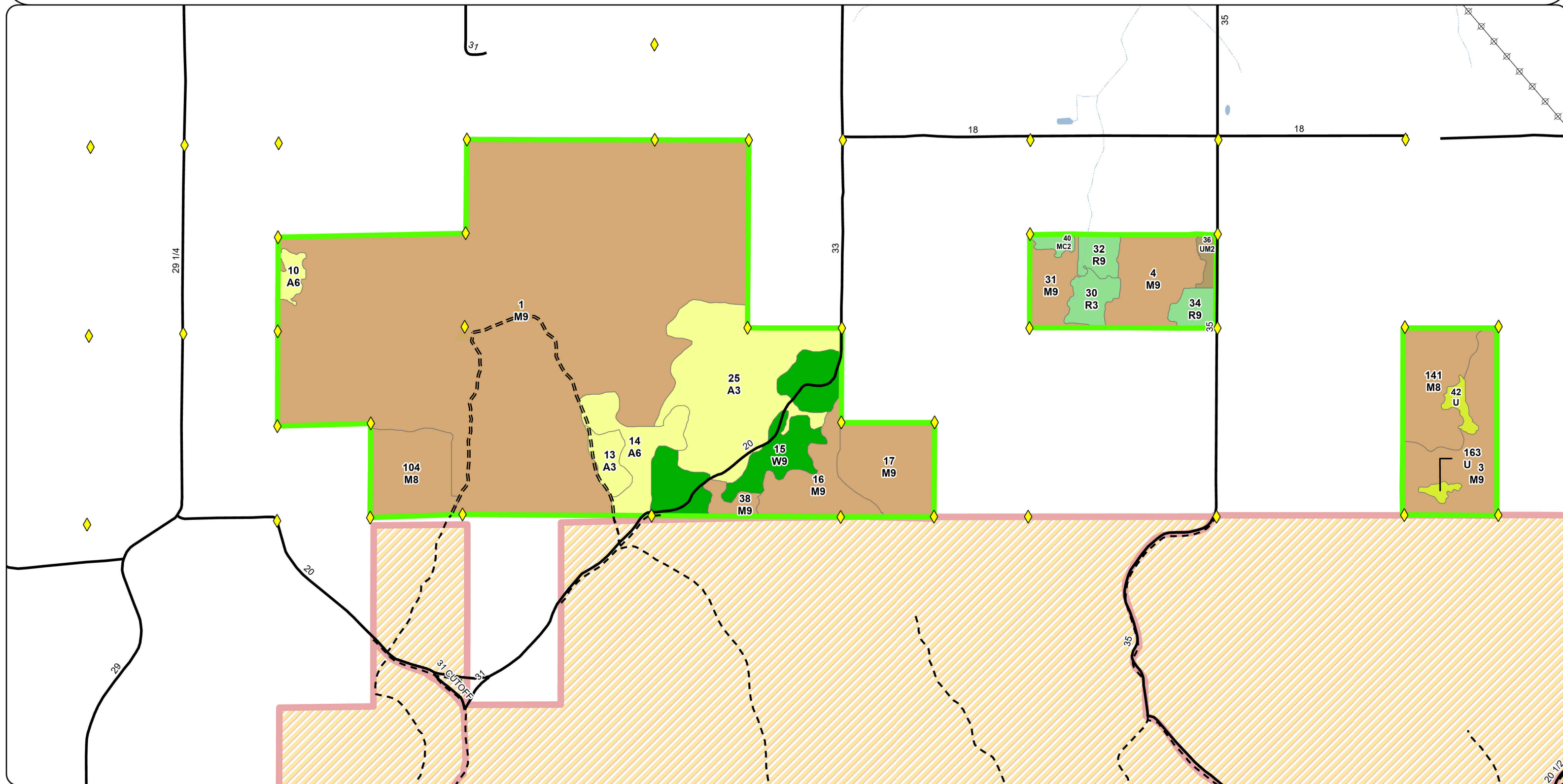
413 - Aspen

421 - Planted Pines

422 - Natural Pines

430 - Upland Mixed Forest

330 - Low Density Trees



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Perennial River

Lakes and Rivers

Counties

Powerline

Compartment Boundary

411 - Northern Hardwood

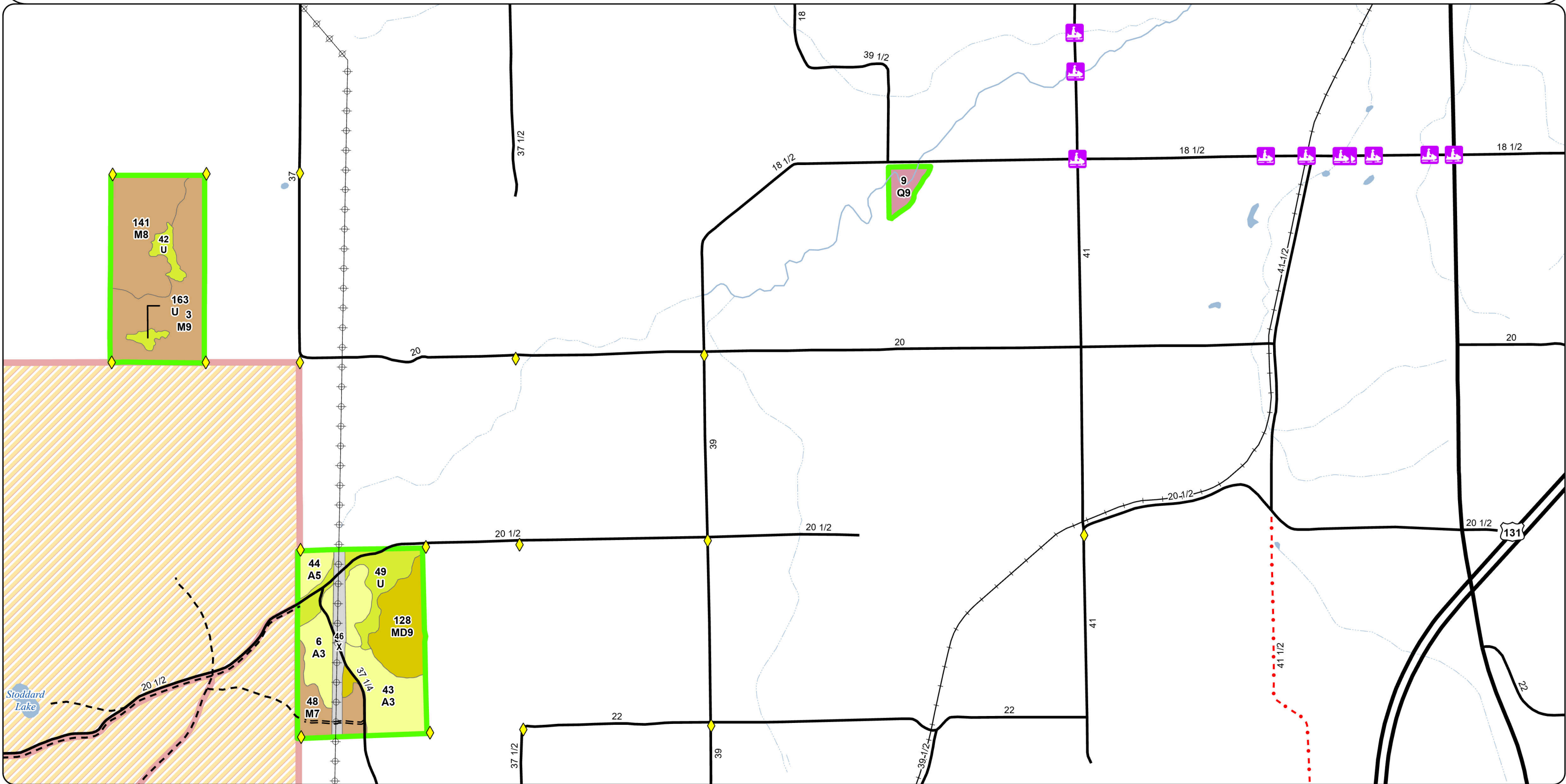
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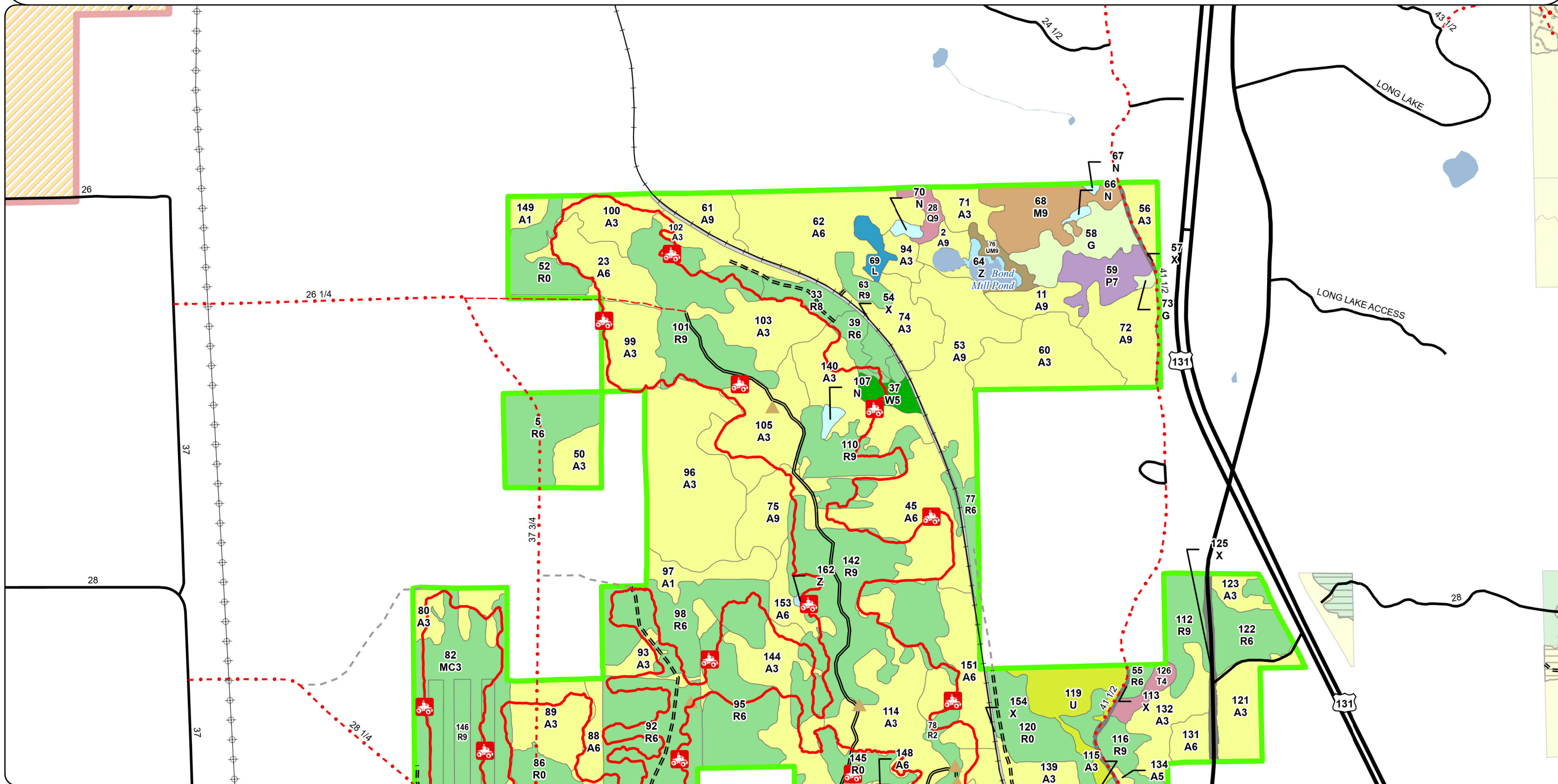
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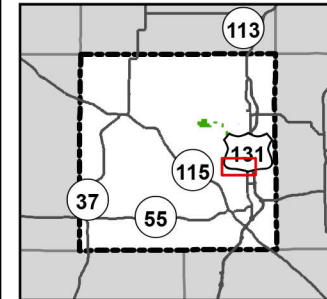
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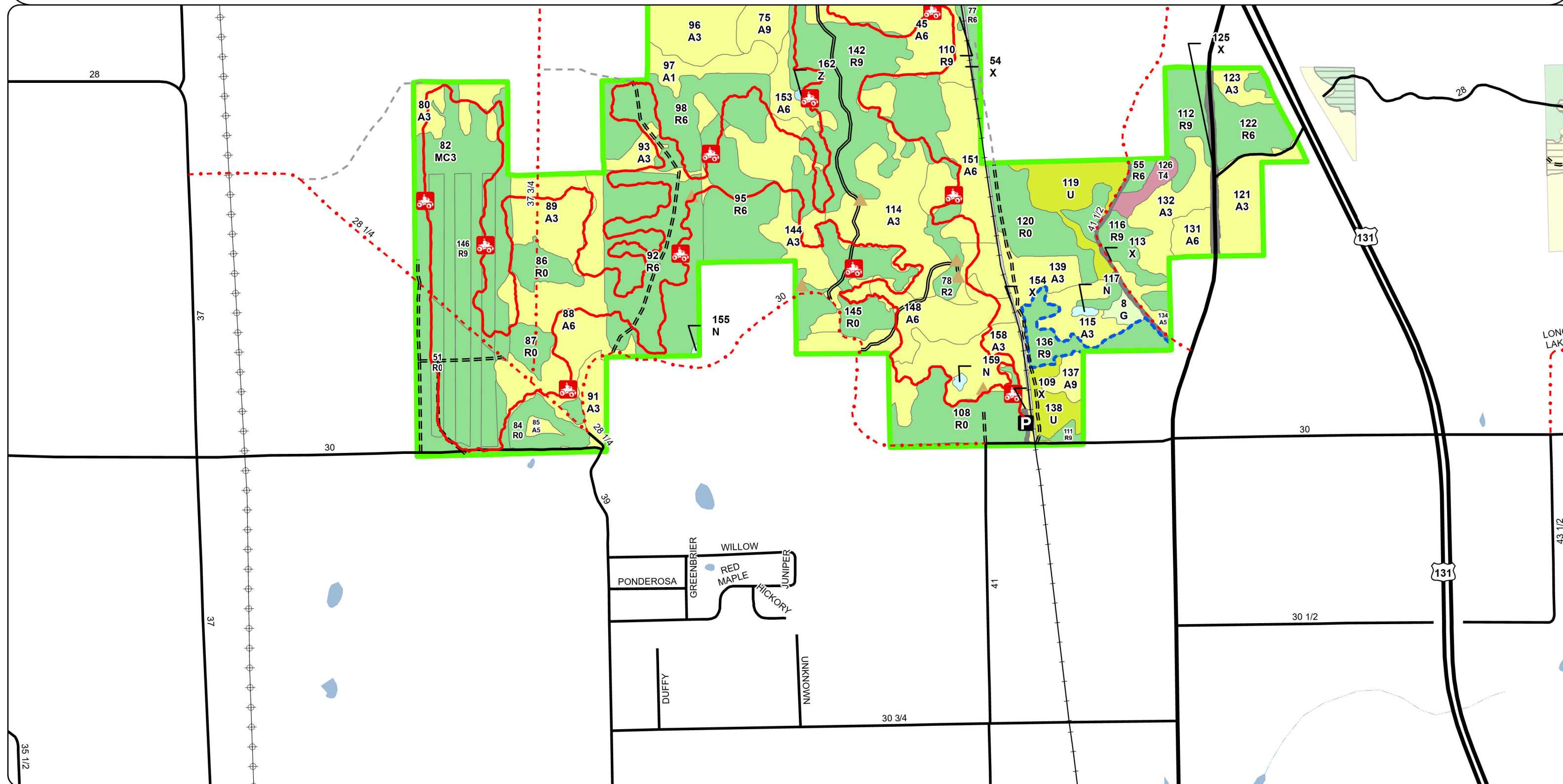
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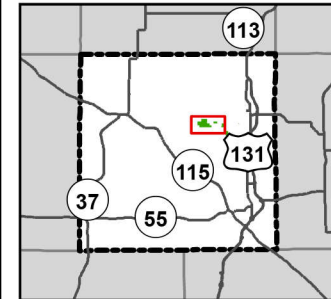
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Stand Boundary Map



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Survey Grade Corners

Berms

DNR - Forest Access Route

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Federal / State - Dirt / Gravel Road

Intermittent Stream

Lakes and Rivers

Counties

Powerline

Compartment Boundary

411 - Northern Hardwood

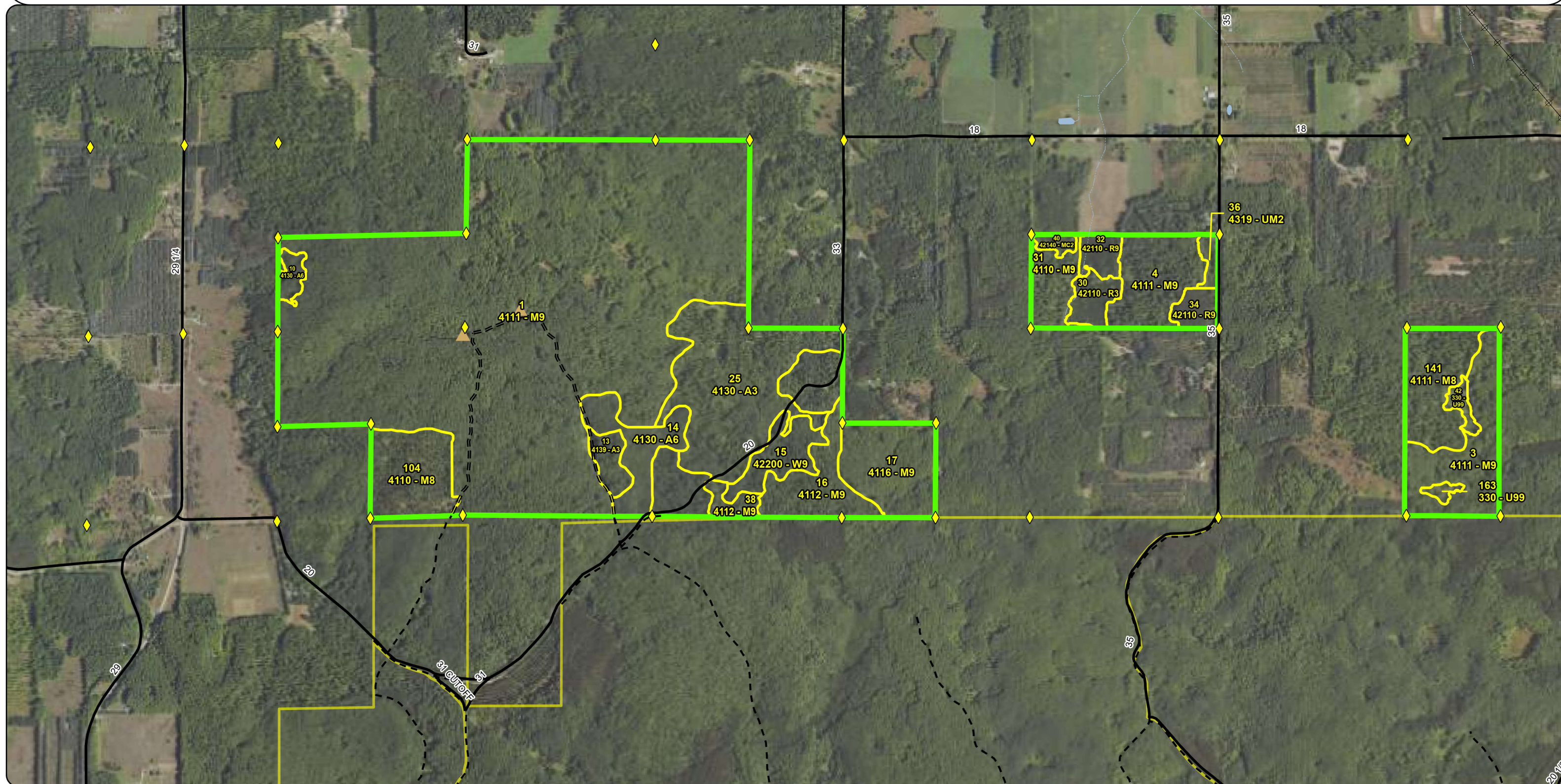
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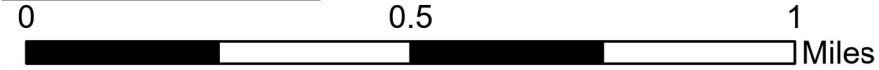
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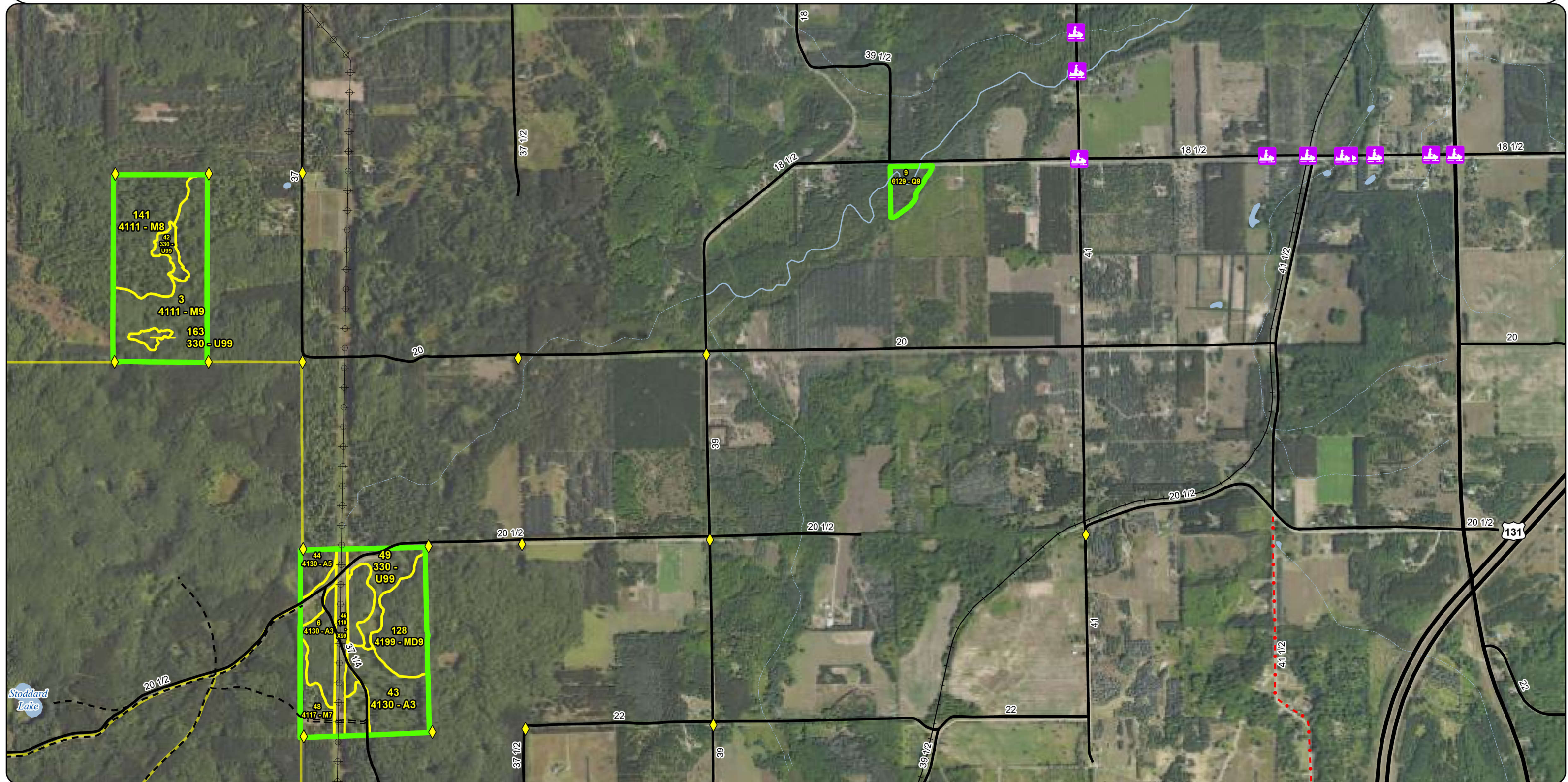
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- | | |
|---|--|
|  Survey Grade Corners |  Active Railroads |
|  DNR - Forest Access Route |  Intermittent Stream |
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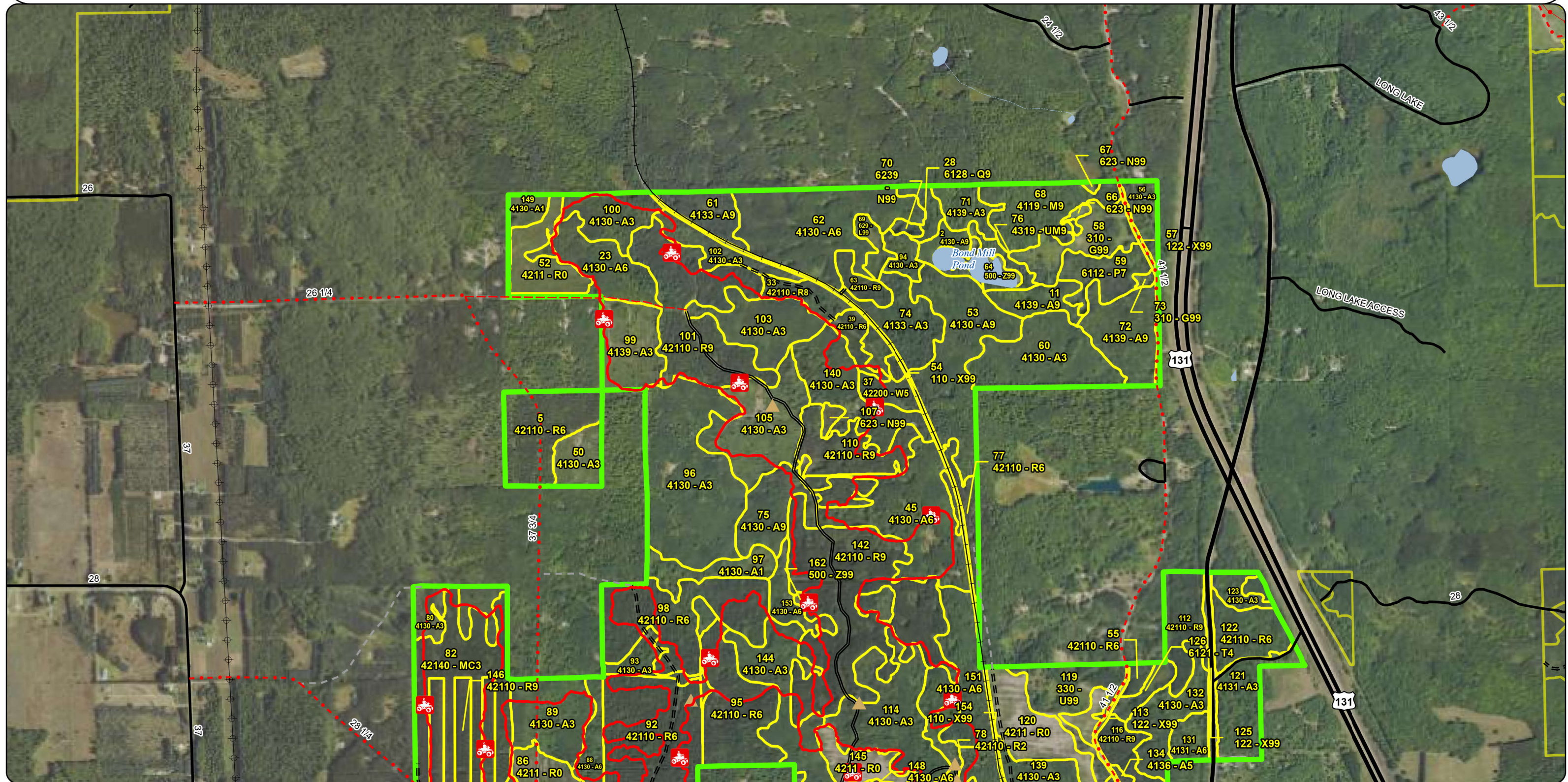



















A horizontal scale bar with a black rectangular segment in the middle. Above the left end is the number '0.5' and above the right end is the number '1'. To the right of the bar is the word 'Miles'.

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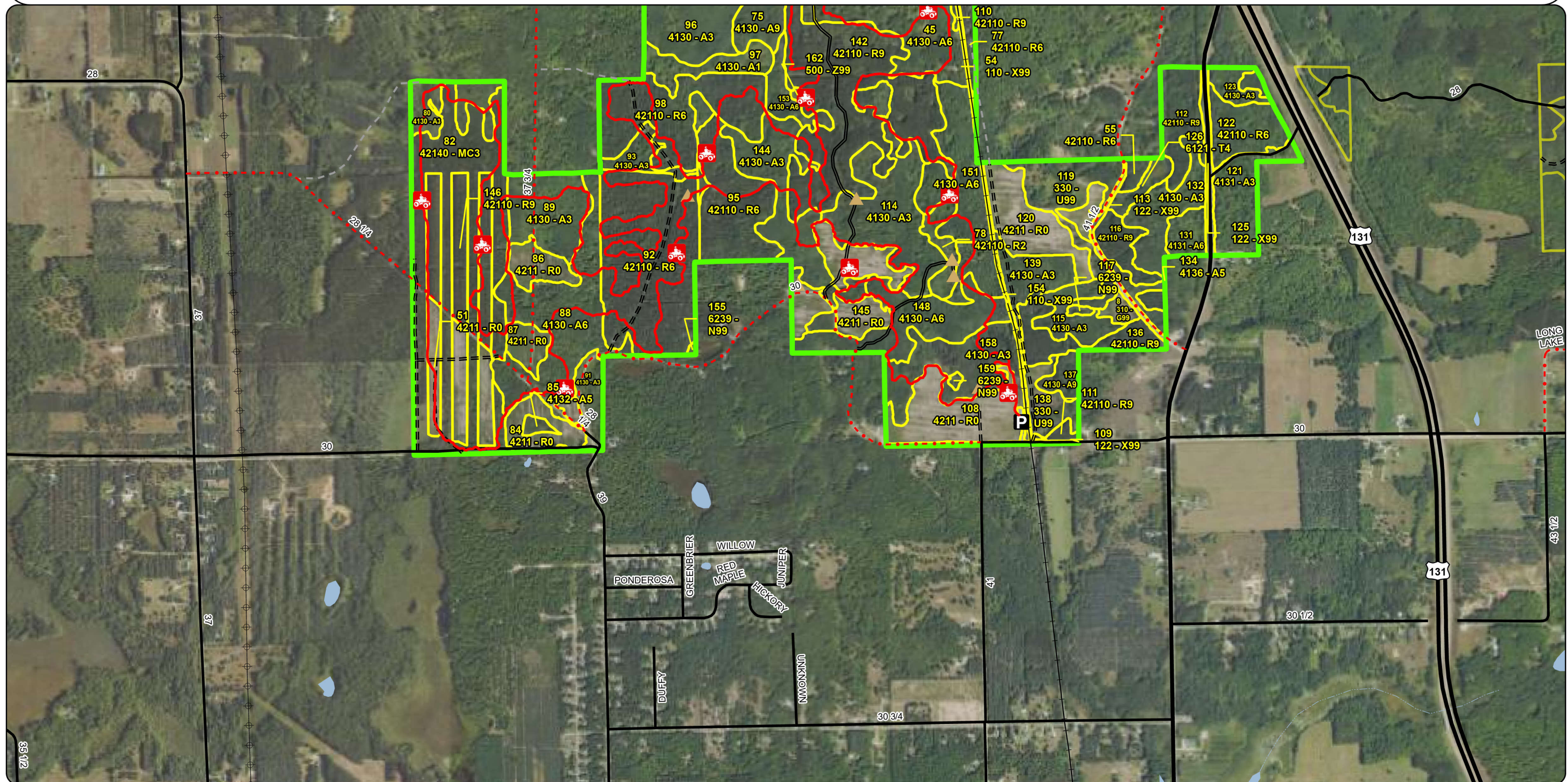
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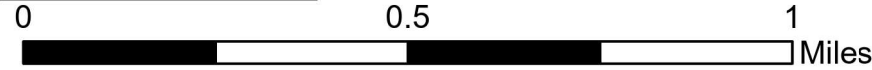
- | | | | | | |
|---|-----------------------------|---|---------------------------------------|---|----------------------|
|  | Berms |  | Federal / State / County - Paved Road |  | Counties |
|  | Parking Lot |  | County - Gravel Road |  | Powerline |
|  | Designated ATV Trails |  | Private - Dirt / Gravel Road |  | Compartment Boundary |
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**Special Conservation Areas
& Site Conditions Map**

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- Survey Grade Corners

Berms

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Lakes and Rivers

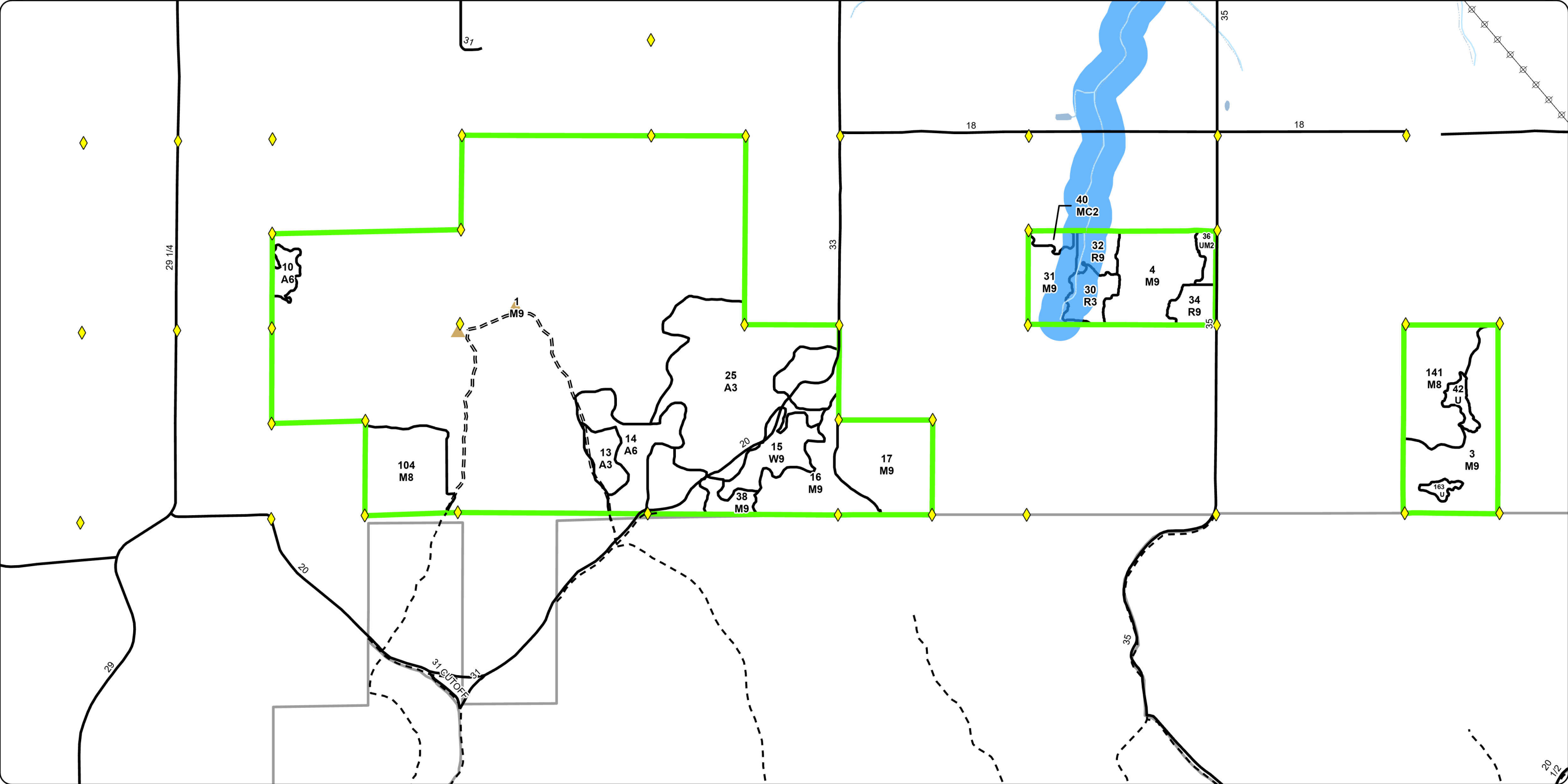
Counties

Powerline
- Compartment Boundary

Stand Boundaries

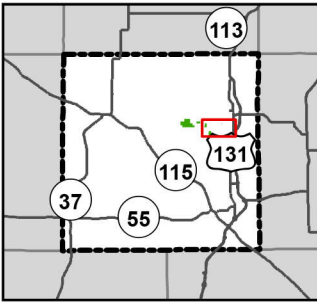
Cold Water Streams

High Priority Trout Stream Buffer



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0 0.5 1 Miles



Survey Grade Corners

=== DNR - Forest Access Route

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— Active Railroads

— Intermittent Stream

— Perennial River

Lakes and Rivers

Counties

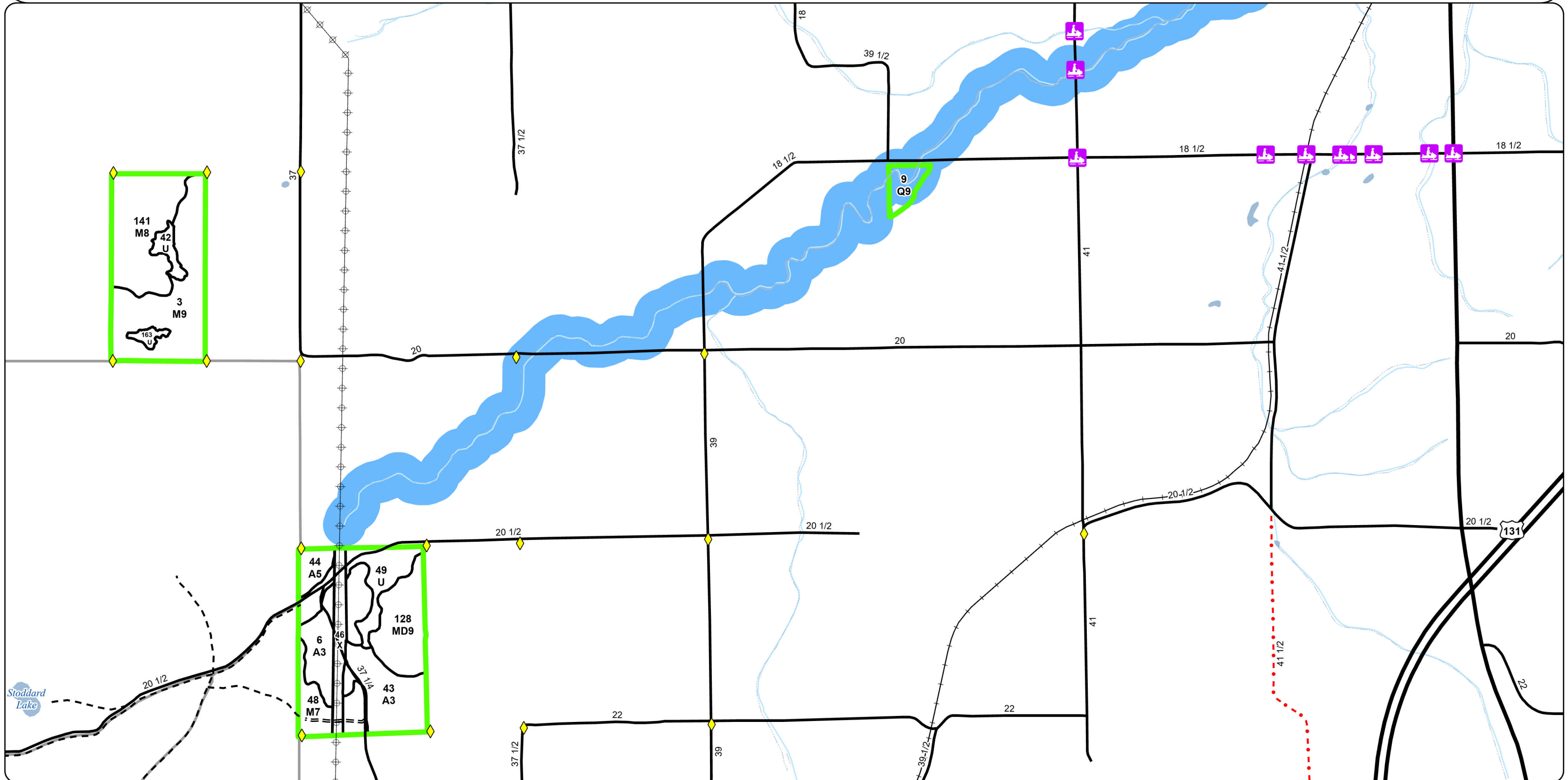
⊕ ⊕ Powerline

Compartment Boundary

Stand Boundaries

Cold Water Streams

High Priority Trout Stream Buffer



Special Conservation Areas & Site Conditions Map

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0 0.5 1 Miles

▲ Berms

● Designated Motorcycle Trails

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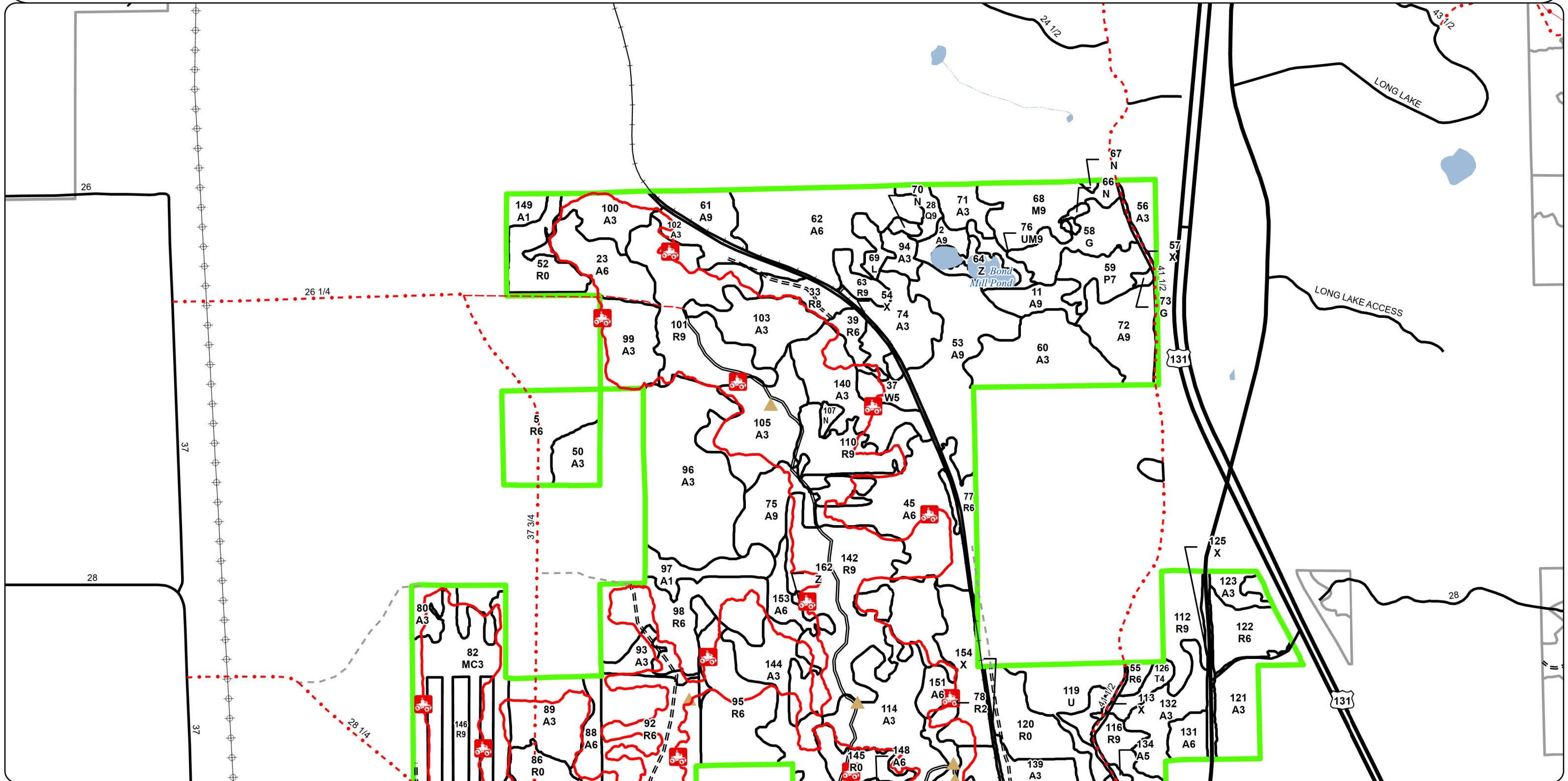
■ Lakes and Rivers

□ Counties

+ + + Powerline

■ Compartment Boundary

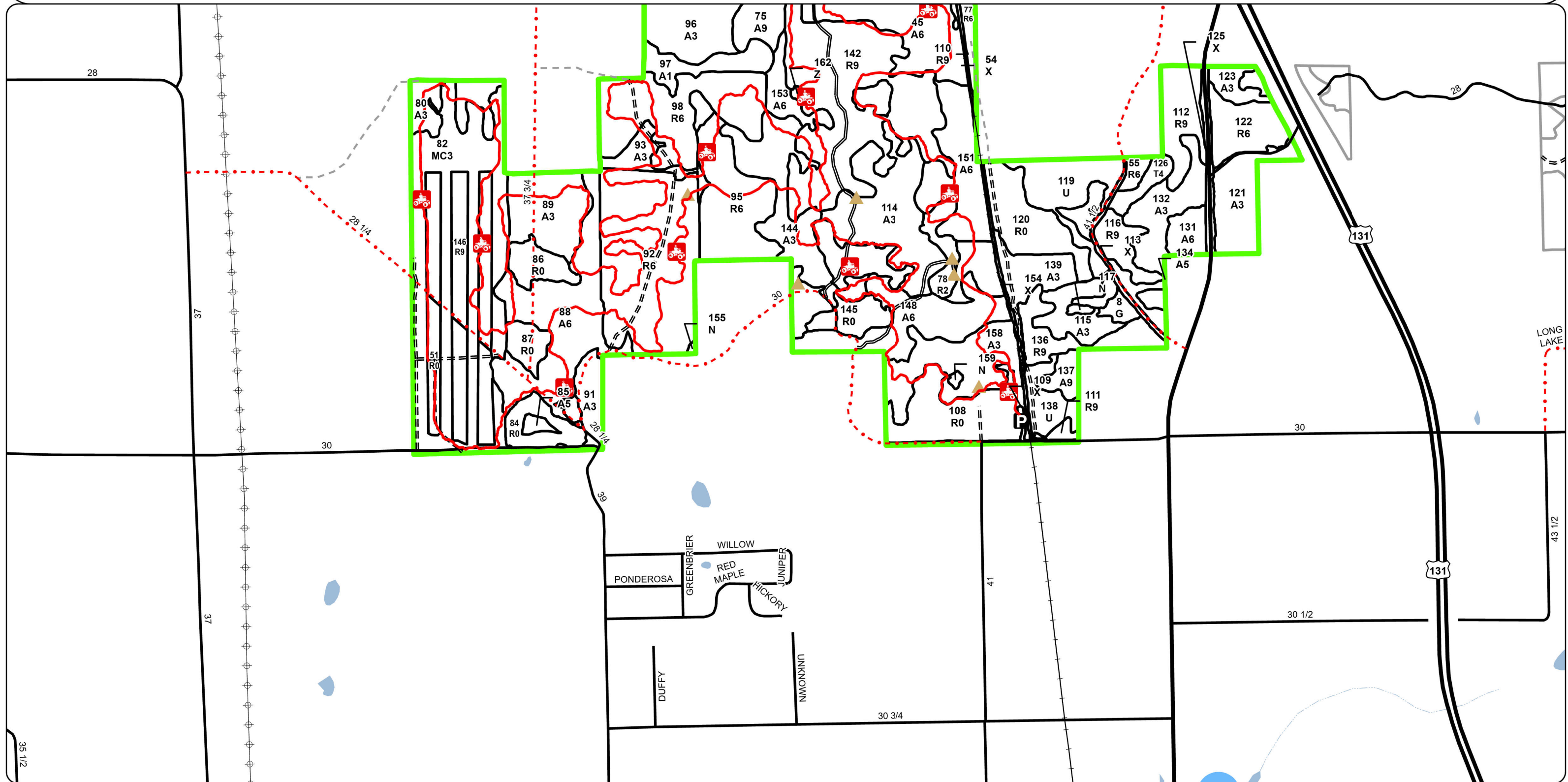
□ Stand Boundaries





A horizontal scale bar with a black outline. It is divided into four equal segments by three vertical black lines. The first segment is solid black, the second is white, the third is solid black, and the fourth is white. Above the bar, the numbers 0, 0.5, and 1 are positioned at the first, second, and third vertical lines respectively. To the right of the bar, the word "Miles" is written.

-  High Priority Trout Stream Buffer



35 1/2

Report 1 – Total Acres by Cover Type and Age Class

Compartment 139 Year of Entry 2027

	Age Class																		
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	110	432	188	203	0	0	164	38	6	0	0	0	0	0	0	0	0	1140
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Low-Density Trees	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	5	0	6	0	0	0	0	11
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	22
Northern Hardwood	0	0	0	0	0	0	0	0	36	594	158	0	0	0	0	0	0	0	788
Planted Mixed Pines	0	0	3	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
Red Pine	157	0	19	0	0	0	0	497	16	0	0	0	0	0	0	0	0	0	689
Tamarack	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	4	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	10
Urban	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	0	0	52
Total	296	110	458	276	203	0	0	661	142	644	158	11	0	6	0	0	0	0	2964

Report 2 – Treatment Summary

Cadillac Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 139
Total Compartment Acres: 2,962

Commercial Harvest - 1090
Harvests with Site Condition - 16
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	92	25	0	0	0	0	0	0	0	117
Low-Density Trees	10	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	316	0	0	19	0	0	0	0	334
Red Pine	30	0	0	0	0	151	0	0	0	181
Total	132	341	0	0	19	151	0	0	0	642

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	642	0	0	0	0	18	0	0	0	680
Next Step	0	0	0	0	0	0	463	0	0	463
Total	642	0	0	0	0	18	463	0	0	1143

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

75	63139075-Cut	19.5	4130 - Aspen	9	74	111-140	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	No
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Prescription Cut all species greater than 2". Mark a few retention islands to meet standard retention guidelines. Use oak wilt spec with exceptions. Use
Specs: ORV trail spec. Use grouse spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, oak sp., white pine

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

5	63139005-Cut	29.7	42110 - Planted Red Pine	6	68	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin red pine down to 110-120 BA focusing on removing suppressed and forked stems.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

17	63139017-Cut	36.3	4116 - Mixed N. Hardwood - Aspen	9	78	111-140	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No
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Prescription Cut all aspen and beech. Thin remaining area down to 60 BA referencing hardwood gap guidance.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable sugar maple, aspen

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

23	63139023-Cut	21.3	4130 - Aspen	6	60	111-140	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	No
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Prescription Cut all species greater than 2". Mark a few retention islands to meet standard retention guidelines. Use oak wilt spec with exceptions. Use
Specs: ORV trail spec. Use grouse spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, oak sp., red maple, beech

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Standard

	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
52	63139052-Spray	18.0	4211 - Planted Red Pine	0	6	Immature	Pesticide	Pesticide	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> spray to release red pine <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> 10/01/2025											
53	63139053-Cut	47.2	4130 - Aspen	9	61	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Cut all species greater than 2 inches DBH. Leave .25 - .5 acre retention islands throughout the stand following retention guidelines. Focus retention islands around high quality red oaks. Mark to leave a few high quality pine and white oak while cruising. Use oak wilt spec with exceptions. Use grouse spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, oak sp., red maple, pine sp. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
55	63139055-Cut	3.1	42110 - Planted Red Pine	6	69	171-200	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	No
<u>Prescription</u> Cut all aspen and red pine greater than 2 inches DBH. No retention due to small acreage. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, red maple, beech, red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
58	63139058-Opening	19.9	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Cut trees and brush to keep open. Possible herbicide. Periodic mowing, planting, and/or tillage for establishing native mix. <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
1	63139001-Cut	279.6	4111 - S.Maple, Hard Mast Association	9	89	111-140	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No
<u>Prescription</u> Thin to 70 BA following hardwood gap guidance. Try and leave 16" DBH sugar maples as seed source. Focus cutting larger beech. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> sugar maple <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
72	63139072-Cut	24.9	4139 - Aspen, Mixed Deciduous	9	65	111-140	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No
<u>Prescription</u> Cut all aspen 2 inches DBH and greater. Use oak wilt spec, no exceptions. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, sugar maple, red oak <u>Regen:</u> <u>Other</u> Be aware of sensitive areas in this stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
142	63139142-Cut	88.6	42110 - Planted Red Pine	9	68	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin this stand down to 110-120 BA. Use ORV trail protection spec. <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											
77	63139077-Cut	8.6	42110 - Planted Red Pine	6	68	141-170	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	No
<u>Prescription</u> Cut all red pine and aspen. Convert to aspen/oak stand. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, oak sp., red maple, white pine <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
111 63139111-Cut	1.8	42110 - Planted Red Pine	9	63	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Cut all trees regardless of merchantability. Final harvest and plant to red pine. Use low stump spec. Require chipping. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> Hold site prep spraying until two years after harvesting due to presence of scotch pine in adjacent stand <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
112 63139112-Cut	17.9	42110 - Planted Red Pine	9	69	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Mark this stand down to 110-120 BA focusing on removing suppressed and forked stems. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
116 63139116-Cut	14.7	42110 - Planted Red Pine	9	69	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Mark this stand down to 110-120 BA focusing on removing suppressed and forked stems. <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										
136 63139136-Cut	16.3	42110 - Planted Red Pine	9	75	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Cut all trees regardless of merchantability. Use low stump spec. Require chipping. Re-plant to red pine. No retention due to small acreage. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> planted red pine <u>Regen:</u> <u>Other</u> Hold site prep spraying until two years after harvesting due to presence of scotch pine in adjacent stand <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
137 63139137-Cut	4.2	4130 - Aspen	9	82	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Cut all trees greater than 2 inches DBH except oak sp. and sugar maple. Cut in dry summer or frozen winter only. Use oak wilt spec, no exceptions. Use grouse spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, oak sp., sugar maple <u>Regen:</u> <u>Other</u> Plant to red pine on western edge where aspen regen isn't present <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
138 63139138-Cut	9.7	330 - Low-Density Trees	99			Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Cut all trees and plant to red pine. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> Hold site prep spraying until two years after harvesting due to presence of scotch pine <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
68 63139068-Cut	18.5	4119 - Mixed Northern Hardwoods	9	83	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Cutting Record	No
<u>Prescription</u> Cut all beech and aspen. Cut all red maple, oak, and white pine less than 16 inches DBH. Do not cut hemlock or cedar. Mark to leave sugar maple and any higher quality beech bark disease resistant beech trees found. Use oak wilt spec with no exceptions. Harvest during frozen winter or dry summer conditions only. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> sugar maple, red oak, red maple, white pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

Total Treatment 685.3
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
Ryan Adamczyk: Examiner

Compartment: 139
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions					
Acres	Available	With Condition	Not Available	2I	5C	2G	3G	3J	5E
1032	946	62	24	Aspen	62			7	17
24	24	0	0	Herbaceous Openland					
56	56	0	0	Low-Density Trees					
16	0	0	16	Lowland Aspen/Balsam Poplar		16			
11	0	0	11	Lowland Conifers			5	6	
5	5	0	0	Lowland Shrub					
8	8	0	0	Marsh					
1	0	0	1	Mixed Upland Deciduous					1
508	259	249	0	Northern Hardwood	249				
91	91	0	0	Planted Mixed Pines					
690	673	16	0	Red Pine	16				
6	0	0	6	Tamarack		6			
9	4	0	6	Upland Mixed Forest				6	
37	37	0	0	Urban					
9	9	0	0	Water					
52	52	0	0	White Pine					
2,554	2,164	327	63	Total Forested Acres	16	311	21	5	19
	85%	13%	2%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Available		2I: Survey needed	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Cadillac Mgt. Unit
Ryan Adamczyk: Examiner

Compartment: 139
Year of Entry: 2027



3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Ryan Adamczyk: Examiner

Compartment: 139
Year of Entry: 2027



10	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	249	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold to see how stand 104 regeneration comes along before prescribing.							
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retained during previous harvest of stand to the south.							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is very wet harvest operations would be extremely difficult.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Ryan Adamczyk: Examiner

Compartment: 139
Year of Entry: 2027



16	Unavailable	3G: Other influence zones - See comments	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Recommend holding for biodiversity. There is not much of this type in the surrounding area.							
21	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	1	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	4111 - S.Maple, Hard Mast Association	Sawtimber Well	528.5	89	111-140	N/A																																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Cherry</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>Ironwood</td><td>2</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Sugar Maple</td><td>70</td><td></td><td>10</td><td>89</td></tr><tr><td>Red Maple</td><td>7</td><td></td><td>10</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>Beech</td><td>15</td><td></td><td>14</td><td></td></tr><tr><td>Red Oak</td><td>2</td><td></td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	2		12		Ironwood	2	Sapling	5		Sugar Maple	70		10	89	Red Maple	7		10		Bigtooth Aspen	2		12		Beech	15		14		Red Oak	2		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sugar Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Beech</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Blackberry/Raspberry</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Serviceberry (Juneberry)</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Ironwood</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	5 - 10 feet	5 - 10 feet	Beech	High	5 - 10 feet	5 - 10 feet	Blackberry/Raspberry	Low	< 5 feet	< 5 feet	White Pine	Low	5 - 10 feet	5 - 10 feet	Serviceberry (Juneberry)	Low	10 - 20 feet	10 - 20 feet	Ironwood	Medium	5 - 10 feet	5 - 10 feet		
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2	4130 - Aspen	Poletimber Well	6.8	61	Unspecified	N/A	Good looking aspen stand the hardwood variety is focused more to the southern end of the stand. Some thick pockets of white pine regen.																																																																		
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3	4111 - S.Maple, Hard Mast Association	Sawtimber Well	41.1	93	81-110	N/A	There is sugar maple regeneration present in concentrated pockets where it became established away from the beech in large gaps and on edges. There are several small clones of aspen coming in on the edges and in small gaps also. There is variable DBH and BA throughout the stand.																																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>5</td><td></td><td>14</td><td></td></tr><tr><td>Black Cherry</td><td>2</td><td></td><td>10</td><td></td></tr><tr><td>Sugar Maple</td><td>60</td><td></td><td>12</td><td>93</td></tr><tr><td>Red Maple</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>3</td><td></td><td>10</td><td></td></tr><tr><td>Beech</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Red Oak</td><td>10</td><td></td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5		14		Black Cherry	2		10		Sugar Maple	60		12	93	Red Maple	10		12		Bigtooth Aspen	3		10		Beech	10		12		Red Oak	10		10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Ash</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Ironwood</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Beech</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Sugar Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Ash	Low	5 - 10 feet	5 - 10 feet	Ironwood	High	5 - 10 feet	5 - 10 feet	Beech	High	10 - 20 feet	10 - 20 feet	Sugar Maple	Low	5 - 10 feet	5 - 10 feet	Red Maple	Low	5 - 10 feet	5 - 10 feet						
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Red Maple	Low	5 - 10 feet	5 - 10 feet																																																																						
4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	31.0	90	51-80	N/A	Stand was thinned in 2019 with timber sale # "63-030-17", "Shotgun Hardwoods". BA is extremely variable due to pockets dominated with beech.																																																																		
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5	42110 - Planted Red Pine	Poletimber Well	29.7	68	141-170	N/A																																																																			
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6	4130 - Aspen	Sapling Well	18.5	17	Immature	N/A																																																																											
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8	310 - Herbaceous Openland	Unspecified	3.3			No	Historical county dump with garbage surfacing. The trees were planted by the Manton girl scouts in 2000.																																																																										
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9	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	6.2	122	201+	N/A	Nice hemlock and cedar stand with Manton creek flowing through it.																																																																										
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11	4139 - Aspen, Mixed Deciduous	Poletimber Well	10.5	65	81-110	N/A																																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
13	4139 - Aspen, Mixed Deciduous	Sapling Well	8.3	14	Immature	N/A	Stand was treated in spring 2010 with timber sale # "63-040-07", "Out of Towner Hardwoods", leaving green ringed trees scattered throughout the cut area.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		15		14		Sugar Maple		Low	< 5 feet	
Black Cherry		10		10		Ironwood		Low	5 - 10 feet	
Sugar Maple		15		12	91	White Ash		Low	< 5 feet	
Red Maple		10	Log	1		Beech		Medium	5 - 10 feet	
Bigtooth Aspen		50	Log	1	14					
14	4130 - Aspen	Sapling Well	23.4	31	81-110	N/A	Regenerating aspen stand looks good at this time.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		30	Sapling	5		Beech		Low	5 - 10 feet	
White Pine		2	Log	2						
Red Maple		18	Log	4						
Bigtooth Aspen		50	Sapling	5	31					
15	42200 - Natural White Pine	Sawtimber Medium	44.8	72	51-80	N/A	Stand was treated in early 2010 with timber sale # "63-054-07", "Badger Blitz Mix".			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Beech		2		8		White Pine		Low	< 5 feet	
White Pine		75		16	72	Beech		Medium	10 - 20 feet	
Black Cherry		5		8		Red Maple		High	10 - 20 feet	
Sugar Maple		15		8		Bigtooth Aspen		Medium	10 - 20 feet	
Red Maple		3		8						
16	4112 - Maple, Beech, Cherry Association	Sawtimber Well	25.8	89	51-80	N/A	Stand was thinned in 2019 with timber sale # "63-030-17", "Shotgun Hardwoods". BA target was 60-80 overall.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		2		14		Ironwood		Low	10 - 20 feet	
Black Cherry		13		12		Sugar Maple		Low	5 - 10 feet	
Sugar Maple		55		12	89	Beech		Medium	10 - 20 feet	
Red Maple		30		12		Hemlock		Low	10 - 20 feet	
17	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	36.3	78	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		8		14		Ironwood		Low	< 5 feet	
Beech		5		10		Black Cherry		Low	< 5 feet	
Hemlock		2		8		Beech		Medium	< 5 feet	
Sugar Maple		60		10	78	Sugar Maple		Low	< 5 feet	
Red Maple		3		8						
Bigtooth Aspen		22		10						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
23	4130 - Aspen	Poletimber Well	21.3	60	111-140	N/A																																															
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25	4130 - Aspen	Sapling Well	81.2	15	Immature	N/A	Stand was treated in early 2010 with timber sale # "63-054-07", "Badger Blitz Mix".																																														
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28	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.2	108	111-140	N/A	Small lowland pocket that connects with a small pond.																																														
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30	42110 - Planted Red Pine	Sapling Well	9.5	15	Immature	N/A	Planted red pine with jack pine volunteers. Looks good at this time.																																														
<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>Log</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>60</td><td>Log</td><td>2</td><td>15</td></tr><tr><td>Jack Pine</td><td>35</td><td>Log</td><td>2</td><td>15</td></tr><tr><td>Black Cherry</td><td>3</td><td>Log</td><td>2</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Beech	2	Log	1		Red Pine	60	Log	2	15	Jack Pine	35	Log	2	15	Black Cherry	3	Log	2																											
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31	4110 - Sugar Maple Association	Sawtimber Well	15.7	90	51-80	N/A	Stand was thinned in 2019 with timber sale # "63-030-17", "Shotgun Hardwoods". BA target was 60-80 overall.																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Basswood</td><td>10</td><td></td><td>14</td><td></td></tr><tr><td>Black Cherry</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Sugar Maple</td><td>60</td><td></td><td>10</td><td>90</td></tr><tr><td>Red Maple</td><td>20</td><td></td><td>12</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Basswood	10		14		Black Cherry	10		12		Sugar Maple	60		10	90	Red Maple	20		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Beech</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Low	5 - 10 feet	5 - 10 feet	Beech	Medium	5 - 10 feet	5 - 10 feet									
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32	42110 - Planted Red Pine	Sawtimber Well	7.4	66	111-140	N/A	Stand was thinned to 100-120 BA Summer 2018 with timber sale # "63-002-17", "139 Pine".																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td></td><td>10</td><td>66</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Red Pine	100		10	66	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	5 - 10 feet	5 - 10 feet																												
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33	42110 - Planted Red Pine	Sawtimber Well	13.2	68	81-110	N/A	Thinned 2018, 139 contract pine.																																																						
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34	42110 - Planted Red Pine	Sawtimber Well	7.3	66	111-140	N/A	Stand was thinned to 100-120 BA Summer 2018 with timber sale # "63-002-17", "139 Pine".																																																						
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36	4319 - Mixed Upland Forest	Sapling Medium	3.8	14	Immature	N/A	The previous stand was harvested in 2009. The stand was planted to red pine in 2010. The jack pine present is volunteer stock.																																																						
<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>45</td><td>Log</td><td>1</td><td>14</td></tr><tr><td>Red Pine</td><td>20</td><td>Log</td><td>1</td><td>14</td></tr><tr><td>Jack Pine</td><td>25</td><td>Log</td><td>1</td><td>14</td></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>1</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Beech	45	Log	1	14	Red Pine	20	Log	1	14	Jack Pine	25	Log	1	14	Black Cherry	10	Log	1		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Blackberry/Raspberry</td><td>High</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Blackberry/Raspberry	High	< 5 feet	< 5 feet																						
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Blackberry/Raspberry	High	< 5 feet	< 5 feet																																																										
37	42200 - Natural White Pine	Poletimber Medium	7.0	73	51-80	N/A	Open grown mix of white pine and aspen.																																																						
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38	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	5.8	93	51-80	N/A	Regeneration is starting to fill in the gaps created by the previous entry periods harvest activities.																																																						
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39	42110 - Planted Red Pine	Poletimber Well	8.0	68	111-140	N/A	Thinned 2018, 139 contract pine.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
40	42140 - Planted Mixed Pine	Sapling Medium	3.1	15	Immature	N/A	Planted regeneration looks good. Sugar maples are remnants from previous stand.																																			
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Black Cherry	2	Log	1																																							
42	330 - Low-Density Trees	Unspecified	3.7			No	White pine appears to be hand planted in the southern portion.																																			
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sugar Maple</td><td>Trace</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Black Cherry</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr></table>								Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Trace	>20 feet	>20 feet	White Pine	Low	>20 feet	>20 feet	Black Cherry	Low	>20 feet	>20 feet																			
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43	4130 - Aspen	Sapling Well	20.5	6	Immature	N/A	Stand was treated in 2019 with timber sale # "63-030-17", "Shotgun Hardwoods".																																			
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44	4130 - Aspen	Poletimber Medium	5.7	76	51-80	N/A	Small vernal pond on interior of stand. Old grade on west side of stand. Due to the small size of the stand, the vernal pocket I recommend putting in to long term retention.																																			
<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>20</td><td></td><td>8</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>65</td><td></td><td>10</td><td>76</td></tr><tr><td>White Pine</td><td>13</td><td></td><td>10</td><td></td></tr><tr><td>Black Cherry</td><td>2</td><td>Seedling</td><td>8</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	20		8		Bigtooth Aspen	65		10	76	White Pine	13		10		Black Cherry	2	Seedling	8											
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45	4130 - Aspen	Sapling Well	53.1	38	111-140	N/A	Regenerating aspen stand looks good at this time but has some areas of lower stocking densities.																																			
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46	110 - Low Intensity Urban	Unspecified	9.5			No	Powerline ROW																																			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
48	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	13.2	86	1-50	N/A	Possible old homestead. Hardwoods are concentrated along the southern private line. High recreational use on the west side of powerlines. A few old animal graves on the side of the hill.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		10		10		Witch Hazel		Trace	5 - 10 feet	5 - 10 feet
Sugar Maple		25		12	86	Red Maple		Low	5 - 10 feet	5 - 10 feet
Red Maple		20		10		Red Pine		Trace	5 - 10 feet	5 - 10 feet
Bigtooth Aspen		10		10		White Pine		Trace	5 - 10 feet	5 - 10 feet
White Pine		20		8		Black Cherry		Low	5 - 10 feet	5 - 10 feet
Black Cherry		15		8						
49	330 - Low-Density Trees	Unspecified	16.7			No	Old homestead property. There are at least 2 old foundations in this stand.			
Sub-Canopy Species		Density	Avg. Height	Size						
Quaking Aspen		Low	>20 feet	>20 feet						
White Pine		Medium	>20 feet	>20 feet						
Black Cherry		Low	>20 feet	>20 feet						
50	4130 - Aspen	Sapling Well	11.7	6	Immature	N/A	Stand was harvested in fall of 2019 with timber sale # "63-019-17", "Thrilling Aspen".			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		13	Log	1		Red Maple		Low	5 - 10 feet	5 - 10 feet
Beech		2	Log	1		Beech		Medium	10 - 20 feet	10 - 20 feet
Red Oak		5	Log	1						
Red Maple		5	Log	1						
Bigtooth Aspen		75	Log	1	6					
51	4211 - Planted Red Pine	Unspecified	22.4	4	Immature		Fall 2021- Regeneration survey shows fully stocked and FTG. 908 TPA 4/27/2021- Planted red pine 9/14/20 - Stand was site prep sprayed reading for planning. 2019 Stand was Trenched Area was final harvested after the Bond Mill Pond fire in 2018.			
Sub-Canopy Species		Density	Avg. Height	Size						
Red Pine		Full	< 5 feet	< 5 feet						
52	4211 - Planted Red Pine	Unspecified	18.0	6	Immature		Regen Survey 10/10/2019:16 plots put in across planted areas of site. Survival is at 80%, giving us an estimated 720 TPA stocking, with 18% free to grow. Primary competitor is shrub cherry in the southern 1/2 of stand, south of small aspen pocket heavier than north.Stand was harvested in 2018 with timber sale # "63-020-17", "Reroute Pine".			
Sub-Canopy Species		Density	Avg. Height	Size						
Bigtooth Aspen		Low	5 - 10 feet	5 - 10 feet						
Red Pine		Full	< 5 feet	< 5 feet						
Black Cherry		Medium	5 - 10 feet	5 - 10 feet						
53	4130 - Aspen	Poletimber Well	47.2	61	111-140	N/A	Good looking aspen stand the hardwood variety is focused more to the southern end of the stand. Some thick pockets of white pine regen.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		10		12		Red Maple		Low	10 - 20 feet	10 - 20 feet
Red Pine		5		16		Beech		Low	10 - 20 feet	10 - 20 feet
Beech		5		8		White Pine		Medium	10 - 20 feet	10 - 20 feet
Red Oak		5		10						
Red Maple		10		8						
Bigtooth Aspen		65		10	61					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
54	110 - Low Intensity Urban	Unspecified	7.5			No	Railroad corridor																																																	
55	42110 - Planted Red Pine	Poletimber Well	3.1	69	171-200	N/A																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td></td><td>8</td><td>69</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100		8	69	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Quaking Aspen</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Beech</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	5 - 10 feet	Quaking Aspen	High	10 - 20 feet	10 - 20 feet	Beech	Trace	5 - 10 feet	5 - 10 feet																								
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56	4130 - Aspen	Sapling Well	8.4	16	Immature	N/A	Aspen was harvested from this stand at the end of 2008 with timber sale # "63-047-07", "Mill Pond Aspen".																																																	
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57	122 - Road/Parking Lot	Unspecified	3.1			No	41 1/2 RD																																																	
58	310 - Herbaceous Openland	Unspecified	19.9			No																																																		
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59	6112 - Lowland Aspen	Poletimber Poor	15.6	83	51-80	N/A	This stand has low volume and a high water table.																																																	
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60	4130 - Aspen	Sapling Well	35.8	16	Immature	N/A	Stand was harvested at the end of 2008 with timber sale # "63-047-07", "Mill Pond Aspen".																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
61	4133 - Aspen, Mixed Pine	Sawtimber Well	12.2	77	111-140	N/A	There is a small vernal pond in the center of this stand. This stand is shaped almost like a bowl with some steep terrain. This could make harvest difficult combined with the vernal pond.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	40		16		Beech	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	60		12	77	White Pine	Low		10 - 20 feet	10 - 20 feet
					Black Cherry	Low		10 - 20 feet	10 - 20 feet
62	4130 - Aspen	Sapling Well	52.2	35	111-140	N/A	Regenerating aspen stand with some scattered super canopy red oaks from the previous stand. White pines are scattered throughout the stand and also in pockets.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	20	Sapling	5		White Pine	Low		5 - 10 feet	5 - 10 feet
Red Oak	2		16		Black Cherry	Low		< 5 feet	< 5 feet
Bigtooth Aspen	65	Sapling	5	35					
White Pine	10	Pole	4						
Black Cherry	3	Pole	4						
63	42110 - Planted Red Pine	Poletimber Well	6.5	68	111-140	N/A	Stand was thinned in summer 2009 with timber sale # "63-048-07", "Mill Pond Pine". All aspen and red maple were removed.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100		10	68	Beech	Low		5 - 10 feet	5 - 10 feet
					Red Maple	Medium		10 - 20 feet	10 - 20 feet
					Bigtooth Aspen	Medium		10 - 20 feet	10 - 20 feet
					White Pine	Low	< 5 feet	< 5 feet	
64	500 - Water	Unspecifed	8.2			No			
66	623 - Emergent Wetland	Unspecifed	1.0			No	Water with aquatic vegetation. Beaver dam		
67	623 - Emergent Wetland	Unspecifed	0.7			No	water with aquatic vegetation.		
68	4119 - Mixed Northern Hardwoods	Sawtimber Well	26.4	83	81-110	N/A	There are a number of low wet pockets in this stand. The big tooth aspen is focused along the field edges and in the NW corner. BBD is present in this stand and needs to be addressed at this time.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Yellow Birch	2	Seedling	7		Yellow Birch	Trace		5 - 10 feet	5 - 10 feet
White Pine	2		18		White Pine	Low		< 5 feet	< 5 feet
Beech	20		12		Beech	Medium		5 - 10 feet	5 - 10 feet
Red Oak	10		14		Sugar Maple	Trace		5 - 10 feet	5 - 10 feet
Hemlock	2		10		Red Maple	Low		5 - 10 feet	5 - 10 feet
Sugar Maple	2		12						
Red Maple	57		12	83					
Bigtooth Aspen	5		14						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
69	629 - Mixed non-forested Wetland	Unspecified	5.3			No	Flooded timber that is 98% dead several white pine and cedars remain.
70	6239 - Mixed Emergent Wetland	Unspecified	1.8			No	Small beaver pond with a border of white pines.
71	4139 - Aspen, Mixed Deciduous	Sapling Well	9.7	26	Immature	N/A	Regenerating stand with a mix of aspen, beech and maple.
72	4139 - Aspen, Mixed Deciduous	Poletimber Well	24.9	65	111-140	N/A	Stand composition is very diverse with a good mix of hardwoods and scattered conifers. The cedar and hemlock is concentrated toward the western portion of the stand near the low pockets.
73	310 - Herbaceous Openland	Unspecified	1.2			No	Small opening with scattered pole sized white pine
74	4133 - Aspen, Mixed Pine	Sapling Well	20.0	16	Immature	N/A	Stand was thinned in summer 2009 with timber sale # "63-048-07", "Mill Pond Pine". All aspen and red maple were removed. White pine was retained from the previous stand at about 40BA on average.

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
82	42140 - Planted Mixed Pine	Sapling Well	88.2	25	Immature	N/A	This is a planted red pine stand that has a very high number of jack pine recruits.																																			
<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>2</td><td>Log</td><td>3</td><td></td></tr><tr><td>Red Pine</td><td>40</td><td>Log</td><td>3</td><td></td></tr><tr><td>Red Oak</td><td>2</td><td>Log</td><td>3</td><td></td></tr><tr><td>Jack Pine</td><td>52</td><td>Log</td><td>4</td><td>25</td></tr><tr><td>Black Cherry</td><td>2</td><td>Log</td><td>3</td><td></td></tr><tr><td>White Oak</td><td>2</td><td>Log</td><td>3</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	2	Log	3		Red Pine	40	Log	3		Red Oak	2	Log	3		Jack Pine	52	Log	4	25	Black Cherry	2	Log	3		White Oak	2	Log	3	
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84	4211 - Planted Red Pine	Unspecified	13.7	4	Immature		4/27/21- Planted to Red Pine Fall 2021- regen survey- Fully stocked and FTG. 919 TPA																																			
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85	4132 - Aspen, Jack Pine	Sapling Medium	2.0	26	Immature	N/A	Small aspen pocket inside a red pine plantation.																																			
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86	4211 - Planted Red Pine	Unspecified	9.6	4	Immature		Harvested in 2018. Reroute Pine 63-020-17-01.																																			
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87	4211 - Planted Red Pine	Unspecified	7.3	4	Immature		Sprayed 9/18/2020 with Weyerhaeuser Mix 4/27/2021- Planted Regen survey fall 2021- Fully stocked and FTG. 853 TPA																																			
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88	4130 - Aspen	Poletimber Well	53.4	60	81-110	N/A	This stand has pockets of low volume.																																			
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Canopy Species	% Cover	Size Class	DBH	Age																																						
Quaking Aspen	40		9																																							
Bigtooth Aspen	55		9	60																																						
White Pine	2	Seedling	6																																							
Red Oak	3		10																																							
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>							Sub-Canopy Species	Density	Avg. Height	Size	White Oak	Low	5 - 10 feet	5 - 10 feet	White Pine	Low	< 5 feet	< 5 feet																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
89	4130 - Aspen	Sapling Well	26.3	15	Immature	N/A	Regenerating aspen looks good. There is a good mix of mature trees mixed in from the previous harvest.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	35	Log	1		Witch Hazel	Low		10 - 20 feet	10 - 20 feet
Red Pine	5		14		Red Maple	Low		< 5 feet	< 5 feet
Black Cherry	5	Log	1		Beech	Low		< 5 feet	< 5 feet
Red Oak	5		8		Red Oak	Low		< 5 feet	< 5 feet
Red Maple	10	Log	1						
Bigtooth Aspen	40	Log	1	15					
91	4130 - Aspen	Sapling Well	10.4	8	Immature	N/A	Harvested in 2018. Reroute Pine 63-020-17-01.		
Canopy Species	% Cover	Size Class	DBH	Age					
Bigtooth Aspen	85	Log	1	8					
White Oak	5	Seedling	8						
White Pine	10		18	68					
92	42110 - Planted Red Pine	Poletimber Well	76.4	68	141-170	N/A	The size of the trees in this stand is quite variable.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Pine	95		8	68	Quaking Aspen	Medium	10 - 20 feet	10 - 20 feet	
White Pine	3		8		Red Oak	Low	10 - 20 feet	10 - 20 feet	
Red Oak	2		16		White Pine	Low	5 - 10 feet	5 - 10 feet	
93	4130 - Aspen	Sapling Well	11.1	17	Immature	N/A	Regenerating aspen stand with a component of over story oaks from the previous stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Oak	5		14		Witch Hazel	Low	5 - 10 feet	5 - 10 feet	
White Pine	5	Log	2		White Pine	Low	< 5 feet	< 5 feet	
Red Maple	5	Log	2		Beech	Low	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen	85	Log	2	17					
94	4130 - Aspen	Sapling Well	6.2	16	1-50	N/A	Aspen and maple was harvested in this stand at the end of 2008 with timber sale # "63-047-07", "Mill Pond Aspen".		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Oak	5		10		Beech	Low	< 5 feet	< 5 feet	
White Pine	5		10		White Pine	Low	< 5 feet	< 5 feet	
Red Maple	10	Log	1						
Bigtooth Aspen	80	Log	1	16					
95	42110 - Planted Red Pine	Poletimber Well	34.8	68	111-140	N/A	Stand was third row thinned in 2018 with timber sale # "63-020-17", "Reroute Pine".		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Oak	3		18		Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet	
Red Pine	95		8	68					
Red Oak	2		16						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
96	4130 - Aspen	Sapling Well	66.6	16	Immature	N/A	Red oak is a remnant from the previous stand.																																																						
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97	4130 - Aspen	Sapling Poor	13.2	26	1-50	N/A																																																							
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98	42110 - Planted Red Pine	Poletimber Well	47.3	68	111-140	N/A	Planted red pine with scattered oaks. aspen is beginning to fill in gaps in the understory.																																																						
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					Bigtooth Aspen	Medium	10 - 20 feet	10 - 20 feet																																																					
99	4139 - Aspen, Mixed Deciduous	Sapling Well	22.6	6	Immature	N/A	Stand was harvested in fall of 2019 with timber sale # "63-019-17", "Thrilling Aspen".																																																						
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100	4130 - Aspen	Sapling Well	16.9	14	Immature	N/A	Red oak is a remnant from the previous stand. Regenerating aspen looks good at this time.																																																						
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101	42110 - Planted Red Pine	Sawtimber Well	53.4	68	111-140	N/A	Stand was thinned to 100-120 BA Fall 2018 with timber sale # "63-002-17", "139 Pine".																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
102	4130 - Aspen	Sapling Well	11.7	26	51-80	N/A	Regenerating aspen looks good.																																														
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103	4130 - Aspen	Sapling Well	24.1	14	Immature	N/A	Regenerating aspen stand looks good at this time.																																														
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104	4110 - Sugar Maple Association	Sawtimber Well	31.9	93	1-50	N/A	Stand was treated in Fall 2017 with timber sale # "63-008-17", "MWR_Wexford". This was a Walters research cut.																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Cherry</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>Sugar Maple</td><td>90</td><td></td><td>14</td><td>93</td></tr><tr><td>Red Maple</td><td>8</td><td></td><td>12</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	2		12		Sugar Maple	90		14	93	Red Maple	8		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Beech</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Sugar Maple</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Low	5 - 10 feet	5 - 10 feet	Beech	High	5 - 10 feet	5 - 10 feet	Sugar Maple	Low	< 5 feet	< 5 feet	Red Maple	Low	< 5 feet	< 5 feet							
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105	4130 - Aspen	Sapling Well	36.1	6	Immature	N/A	Stand was harvested in fall of 2019 with timber sale # "63-019-17", "Thrilling Aspen".																																														
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Beech	Low	5 - 10 feet	5 - 10 feet																																																		
107	623 - Emergent Wetland	Unspecifed	2.0			No	Small water pocket surrounded by grass.																																														
108	4211 - Planted Red Pine	Unspecifed	29.9	4	Immature		Site Prep Spayed 9/18/2020 with Weyerhaeuser Mix 4/27/2021- Planted Fall 2021- Rege Survey- Fully Stocked and FTG. 1010 TPA Harvested in 2019. Reroute Pine 63-020-17-01.																																														
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Sub-Canopy Species	Density	Avg. Height	Size																																																		
Red Pine	Full	< 5 feet	< 5 feet																																																		
109	122 - Road/Parking Lot	Unspecifed	3.1			No	Road and ORV parking lot																																														

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
110	42110 - Planted Red Pine	Sawtimber Well	29.6	68	111-140	N/A	Stand was thinned to 100-120 BA Fall 2018 with timber sale # "63-002-17", "139 Pine".				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		100		13	68	Red Maple		Trace	< 5 feet	< 5 feet	
						White Pine		Trace	< 5 feet	< 5 feet	
						Beech		Trace	< 5 feet	< 5 feet	
111	42110 - Planted Red Pine	Sawtimber Well	2.1	63	141-170	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		2	Seedling	8		Red Maple		Medium	5 - 10 feet	5 - 10 feet	
Quaking Aspen		2	Seedling	8							
Red Pine		96		12	63						
112	42110 - Planted Red Pine	Poletimber Well	17.9	69	141-170	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		2		16		White Pine		Low	< 5 feet	< 5 feet	
Red Pine		98		10	69	Beech		Low	< 5 feet	< 5 feet	
						Red Maple		Low	< 5 feet	< 5 feet	
						Bigtooth Aspen		Low	< 5 feet	< 5 feet	
113	122 - Road/Parking Lot	Unspecifed	3.5			No	41 1/2 rd				
114	4130 - Aspen	Sapling Well	51.8	22	Immature	N/A	Regenerating aspen stand looks good at this time.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		10	Log	3		Red Maple		Low	< 5 feet	< 5 feet	
Black Cherry		2	Log	3		Witch Hazel		Low	5 - 10 feet	5 - 10 feet	
Red Maple		6	Log	3		Beech		Low	< 5 feet	< 5 feet	
Bigtooth Aspen		80	Log	3	22						
Red Oak		2		14							
115	4130 - Aspen	Sapling Well	13.4	15	Immature	N/A	This is a regenerating aspen stand with scattered residual oak and pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		15	Log	1		Red Maple		Low	< 5 feet	< 5 feet	
Red Oak		2		12		Beech		Medium	< 5 feet	< 5 feet	
Red Pine		3		8							
Red Maple		10	Log	1							
Bigtooth Aspen		68	Log	1	15						
White Pine		2		8							
116	42110 - Planted Red Pine	Poletimber Well	14.7	69	141-170	N/A					
Canopy Species		% Cover	Size Class	DBH	Age						
Red Pine		100		10	69						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
117	6239 - Mixed Emergent Wetland	Unspecifed	1.0			No	Small wet pocket with marsh grasses and lowland brush.				
119	330 - Low-Density Trees	Unspecified	22.8			No	Open area that appears to be an old homestead area. There is a power pole with power running to it along the north line.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Bigtooth Aspen	Low	>20 feet	>20 feet
								White Pine	Low	>20 feet	>20 feet
								Red Oak	Low	>20 feet	>20 feet
Red Pine	Low	>20 feet	>20 feet								
120	4211 - Planted Red Pine	Unspecified	28.6	4	Immature		9/18/2020 Stand site prep Spayed with Weyerhaeuser Mix4/27/2021- PlantedFall 2021- Regen Survey- Fully stocked and FTG. 874 TPASummer 2023 - Regen survey-fully stocked FTG.Harvested in 2018. Reroute Pine 63-020-17-01.				
								Sub-Canopy Species	Density	Avg. Height	Size
121	4131 - Aspen, Oak	Sapling Well	21.6	27	Immature	N/A	There was a fair amount of mature red oak left in this stand from the previous harvest. The BA is as high as 50 in places throughout the stand. There is also a trace of paper birch in this stand.				
								Canopy Species	% Cover	Size Class	DBH
122	42110 - Planted Red Pine	Poletimber Well	19.4	64	111-140	N/A	Pine looks good at this time. There is a fair amount of regeneration underneath. There are aspen pockets along the edges that are fairly thick.				
								Canopy Species	% Cover	Size Class	DBH
123	4130 - Aspen	Sapling Well	6.2	27	51-80	N/A	Regenerating aspen looks good at this time.				
								Canopy Species	% Cover	Size Class	DBH
125	122 - Road/Parking Lot	Unspecified	6.5			No	Old US-131				
								Sub-Canopy Species	Density	Avg. Height	Size

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
126	6121 - Tamarack	Poletimber Poor	5.8	83	1-50	N/A	Small lowland area with a fair amount of Tamarack growing along the edges. There is also a good amount of sapling size trees filling in the edge. This stand is border line non forested there is a higher concentration of tamarack in the south end. There is also a good amount of leather leaf growing throughout the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5		12		Tamarack	Low		10 - 20 feet	10 - 20 feet
Tamarack	65		8	83					
Red Maple	10		10						
Bigtooth Aspen	20		10						
128	4199 - Other Mixed Upland Deciduous	Sawtimber Well	22.0	89	111-140	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	5		10		Red Maple	Low		10 - 20 feet	10 - 20 feet
Beech	5		12		Witch Hazel	Low		Variable	Variable
Red Oak	50		16	89	White Pine	Trace		5 - 10 feet	5 - 10 feet
Sugar Maple	2		8		Beech	Low		10 - 20 feet	10 - 20 feet
Red Maple	8		10		Red Oak	Trace		10 - 20 feet	10 - 20 feet
Bigtooth Aspen	30		14						
131	4131 - Aspen, Oak	Poletimber Well	7.6	27	Immature	N/A		Regenerating aspen stand that was harvested 3 rotations ago. There are large oak, maple and beech trees that were retained during harvest operations.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Maple	3		12		Red Maple	Low	5 - 10 feet		5 - 10 feet
Bigtooth Aspen	75	Sapling	5	27	White Pine	Low	5 - 10 feet		5 - 10 feet
Beech	2		12		Beech	Low	5 - 10 feet		5 - 10 feet
Red Oak	20		14		Red Oak	Low	5 - 10 feet		5 - 10 feet
132	4130 - Aspen	Sapling Well	20.0	15	Immature	N/A	Good looking aspen regen with mature over story oaks left from the previous harvest. There is a mature strip of timber between the powerline and the road that was left during the previous harvest. There is also a pocket at the north end of the stand that was left as retention.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	15	Log	1		White Pine	Low		< 5 feet	< 5 feet
Red Oak	10		14		Red Oak	Low		5 - 10 feet	5 - 10 feet
Red Maple	10	Log	1						
Bigtooth Aspen	65	Log	1	15					
134	4136 - Aspen, Mixed Conifer	Sapling Medium	4.9	17	Immature	N/A	Spruce and white pine trees planted by the Manton tiger cubs in 1997.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Log	3		Red Maple	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	50	Log	3	17	Beech	Low		5 - 10 feet	5 - 10 feet
Red Pine	5	Sapling	6		Red Oak	Low		5 - 10 feet	5 - 10 feet
White Pine	10	Seedling	6						
Quaking Aspen	5	Log	3						
Red Oak	10		3						
White Spruce	10	Seedling	6						

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
141	4111 - S.Maple, Hard Mast Association	Sawtimber Well	32.0	93	1-50	N/A	Stand was thinned in 2019 with timber sale # "63-030-17", "Shotgun Hardwoods".																																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>15</td><td></td><td>10</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Sugar Maple</td><td>60</td><td></td><td>12</td><td>93</td></tr><tr><td>Red Maple</td><td>20</td><td></td><td>12</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Red Oak	15		10		Black Cherry	5		10		Sugar Maple	60		12	93	Red Maple	20		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Beech</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Ash</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Ironwood</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Sugar Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Bigtooth Aspen</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Beech	Medium	5 - 10 feet	5 - 10 feet	White Ash	Low	5 - 10 feet	5 - 10 feet	Ironwood	Medium	5 - 10 feet	5 - 10 feet	Sugar Maple	Low	5 - 10 feet	5 - 10 feet	Red Maple	Low	5 - 10 feet	5 - 10 feet	Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet
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142	42110 - Planted Red Pine	Sawtimber Well	88.6	68	141-170	N/A	Planted red pine, ORV trail present in stand.																																																				
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144	4130 - Aspen	Sapling Well	36.9	15	Immature	N/A	Regenerating aspen stand looks good at this time.																																																				
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145	4211 - Planted Red Pine	Unspecifed	27.9	4	Immature		9/18/2020 Stand Site Prep Sprayed with Weyerhaeuser Mix 4/27/2021- Planted. Fall 2021- Regen survey- Fully stocked and 85% FTG. 874 TPA Harvested in 2018. Reroute Pine 63-020-17-01.																																																				
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146	42110 - Planted Red Pine	Sawtimber Well	29.5	68	81-110	N/A	Stand was thinned to 100-120 BA Spring 2019 with timber sale # "63-002-17", "139 Pine".																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
149	4130 - Aspen	Unspecified	8.5	6	Immature	N/A	Area of Red Pine stand that was harvested, but not trenched, due to terrain and ROW.																																																							
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151	4130 - Aspen	Poletimber Well	30.3	38	111-140	N/A	Regenerating aspen stand looks good at this time.																																																							
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153	4130 - Aspen	Poletimber Well	9.2	38	81-110	N/A	This stand is regenerating aspen that looks good at this time. The stand is located on a pretty good slope with an ENE aspect. There is also a trace amount of white pine, sugar maple, and red maple in this stand.																																																							
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154	110 - Low Intensity Urban	Unspecified	3.5			No	Active Railroad																																																							
155	6239 - Mixed Emergent Wetland	Unspecified	0.4			No																																																								
158	4130 - Aspen	Sapling Well	33.0	15	Immature	N/A	Regenerating aspen looks good. There are a couple of pockets of residual red pine that were left when the previous harvest occurred.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Cherry</td><td>2</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Oak</td><td>2</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Pine</td><td>15</td><td></td><td>12</td><td>75</td></tr><tr><td>Red Maple</td><td>4</td><td>Log</td><td>2</td><td></td></tr><tr><td>Paper Birch</td><td>2</td><td>Log</td><td>2</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>75</td><td>Log</td><td>2</td><td>15</td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Trace</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Beech</td><td>Trace</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Oak</td><td>Trace</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	2	Log	2		Red Oak	2	Log	2		Red Pine	15		12	75	Red Maple	4	Log	2		Paper Birch	2	Log	2		Bigtooth Aspen	75	Log	2	15	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Trace	< 5 feet	< 5 feet	Beech	Trace	< 5 feet	< 5 feet	Red Oak	Trace	< 5 feet	< 5 feet				
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159	6239 - Mixed Emergent Wetland	Unspecified	0.7			No	Small wet pocket surrounded by aspen.																																																							
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Willow spp.	Low	5 - 10 feet	5 - 10 feet																																																											
162	500 - Water	Unspecified	0.6			No	This pocket was covered with snow but appeared to have water seeping up in the middle. There are a few shrubs on the edges.																																																							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
163	330 - Low-Density Trees	Unspecified	2.0			No	