

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61037

Entry Year: 2027

Acreage: 2,361

County: Manistee

Management Area: Grand Traverse Moraine

Stand Examiner: Joe Ventimiglia

Legal Description:

T24N, R13W, sections 19, 20, 29, 30, 31 -- T23N, R13W, sections 1, 12

Identified Planning Goals:

Vegetation management in the Grand Traverse Moraine will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Betsie River (a designated natural river), Bear Creek and the Grass Lake Flooding State Wildlife Management Area; threatened, endangered and special concern species; and provide for forest-based recreational uses. The primary attributes and associated uses that influence and drive management in the Manistee Plains management area are wood fiber production, wildlife habitat for existing species and recreational uses. Management activities will emphasize the age, size and species distribution within cover types. Expected trends within this 10-year planning period are increased recreation pressure and continued management to balance cover type age-class distributions for timber and wildlife habitat.

Soil and topography:

Major soil types for this Resource Management Unit are Roscommon-AuGres-Croswell – poorly drained sands; Montcalm-McBride-Kalkaska, Kalkaska-Rubicon – deep, droughty sands; Carlisle-Carbondale-Karston – mucks; Saugatuck – somewhat poorly drained. Terrain is flat and level in the majority of the western block of this compartment and gently rolling in the eastern block of the compartment.

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

This compartment consists of a west and east block. The west block is contiguous ownership surrounded by more state land to the west and private parcels to the east. Benzie Schools own 160 acres adjacent to state land in section 20.

The east block consists of two smaller blocks. The north is surrounded by private on three side with some adjoining state land on the east in Wexford County. There is an 800 MHz radio tower located in the southeast corner of this block that is under lease to Michigan State Police, Michigan Building Authority. The southern block of is private to the north and west, state land in Wexford County adjoins on the east, and Forest Service property adjoins to the south.

Unique Natural Features:

First, Second and Third Creek flow through the compartment. The origin of a tributary to Third Creek is a spring in stand 63. Together these creeks form Bear Creek which is a designated trout stream.

Archeological, Historical, and Cultural Features:

Old homestead in Stand 4.

Special Management Designations or Considerations:

No special designations however, maintaining vegetative cover for Second and Third Creeks is a priority.

Watershed and Fisheries Considerations:

First, Second, and Third Creeks flow through Compartment 37. All three are Designated Trout Streams, with naturally reproducing populations of brown trout, brook trout, steelhead, coho salmon, and Chinook salmon. These creeks are all headwater streams of Bear Creek, a wild trout, salmon, and steelhead stream, and also a Blue-Ribbon Trout Stream. BMPs should be followed when planning timber harvest activities near these fragile trout streams.

Wildlife Habitat Considerations:

Section 1, 12, and the SE portion of the compartment in section 29 consist of a broad moraine ridge (LTA 2211). Large, rolling hills and excessively drained soils typify this land type. Within this compartment, northern hardwoods, aspen, planted pine, and small openings are represented within this LTA. A flat lake plain with sandy loam soils (LTA 6111) rests on the far west portion of Compartment 37. Upland shrub openings, northern hardwoods, and planted pine are represented here. The remainder of the compartment consists of a flat, lake plain with poorly drained peat or muck (LTA 6149). Lowland forests dominate this LTA type within compartment 37.

Wildlife considerations for northern hardwood stands involve maintaining tree species diversity, the protection of den/nesting

trees & snags, coarse woody debris (cwd), and maintaining a scattering of mast-producing trees/shrubs. This will insure use by many species of wildlife. Examples of species found include downy woodpecker, porcupine, sharp-shinned hawk, spotted salamander, wild turkey, and white-tailed deer. Ruffed grouse use different aged aspen throughout their life cycle. Younger stands provide cover while older stands provide catkins (food source) for the winter months. Within each compartment, clearcutting helps facilitate different sized aspen trees by mimicking the necessary disturbance vital for regeneration. The inclusion of CWD trees for drumming logs and maintaining berry-producing shrubs is also desirable. Woodcock prefer areas that are similar to grouse, but with a higher water table. The moist soils allow woodcock to forage. Openings are evaluated for wildlife value and may require hand-felling to maintain this habitat type. Many wildlife species rely on small forest openings. These openings provide grassy nest sites, plentiful seeds and insects, and cover. Examples of species include northern flicker, cottontail rabbit, and garter snake. Upland shrub openings are important to wildlife because they contain many berry-producing trees/shrubs. Lowland forests are important deer wintering grounds. Other wildlife species found here include snowshoe hare, black bear, barred owl, and woodland jumping mouse. Wildlife considerations include mimicking natural disturbances. Small habitat cuts imitate windthrows that occurred historically. These cuts allow sunlight to reach the ground, which increases the growth of sapling trees. These cuts not only rejuvenate the forest, but also provide a food source for wintering white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel and minor end moraine of coarse-textured till. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Devonian Ellsworth Shale. The Ellsworth is used for cement products. There are gravel pits in the area (sections 4, 14, 20, 23) and potential should be good in the compartment. This area is located within the Niagaran reef trend and also has Antrim Shale gas production. Most of the compartment is currently leased for oil and gas development.

Vehicle Access:

See compartment map and or road layer detailing access.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Betsie River Snowmobile Trail (Trail #3) crosses the northwest corner of section 19. If the snowmobile trail will be impacted by timber treatments, then appropriate measures identified in DNR Policy & Procedures "32.22XX Best Management Practices for Forest and Wildlife Management Adjacent to Recreation Trails" should be taken into consideration. The compartment also supports dispersed recreation, fishing along First, Second, and Third Creeks as well as hunting opportunities throughout the compartment.

Fire Protection:

Local protection provided by Copemish-Cleon VFD for the west block of the compartment in Cleon Twp. and by Maple Grove VFD for the east block of the compartment located in Marilla Twp. Department of Natural Resources coverage provided from the Platte River Field Office and the Traverse City Forest Management Unit. There has not been a high occurrence of fire in this area, and urban interface is not too much of a concern. Access is acceptable in most of this compartment.

Additional Compartment Information:

Recommended Land Acquisitions: none.
Recommended Land Disposals: none.

The following reports from the Inventory are attached:

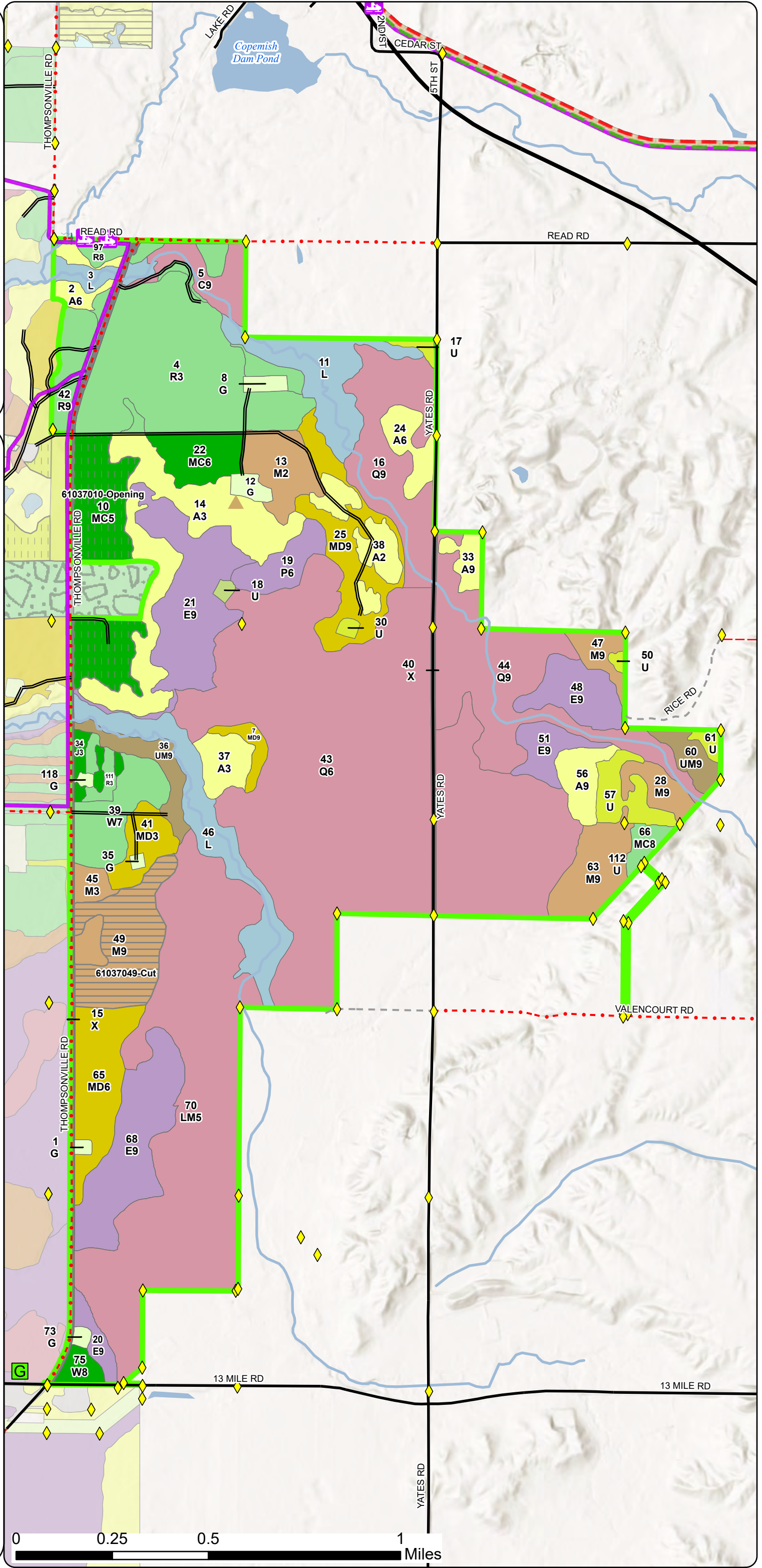
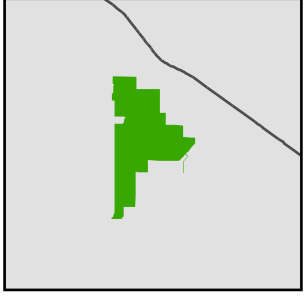
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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: 61037
 T27N R14W 25-25, 36
 County: Manistee
 Unit: Traverse City
 Mgmt. Area: Grand Traverse Moraine
 YOE: 2027
 Acres: 2,360.64 GIS Calculated
 Examiner: Joe Ventimiglia
 Date Exported: 1/9/2026
 Map Phase: Post Maps

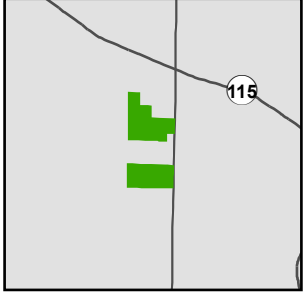


- Survey Grade Corners
- Culvert
- Berm
- Gate
- Compartment Boundary
- Clearcut
- Openings Mgmt.
- Clearcut
- Openings Mgmt.
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Decidous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

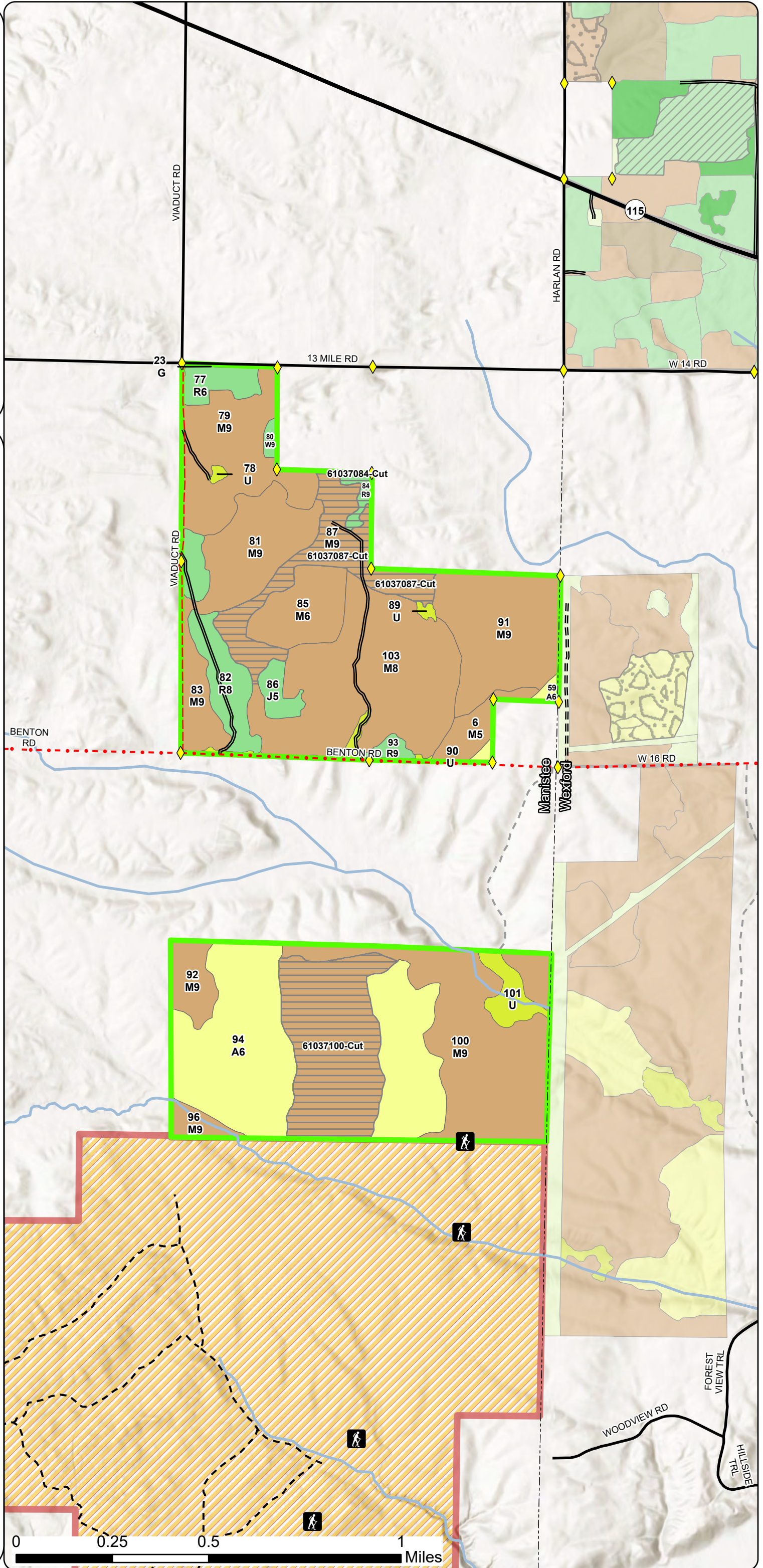
0 0.25 0.5 1 Miles

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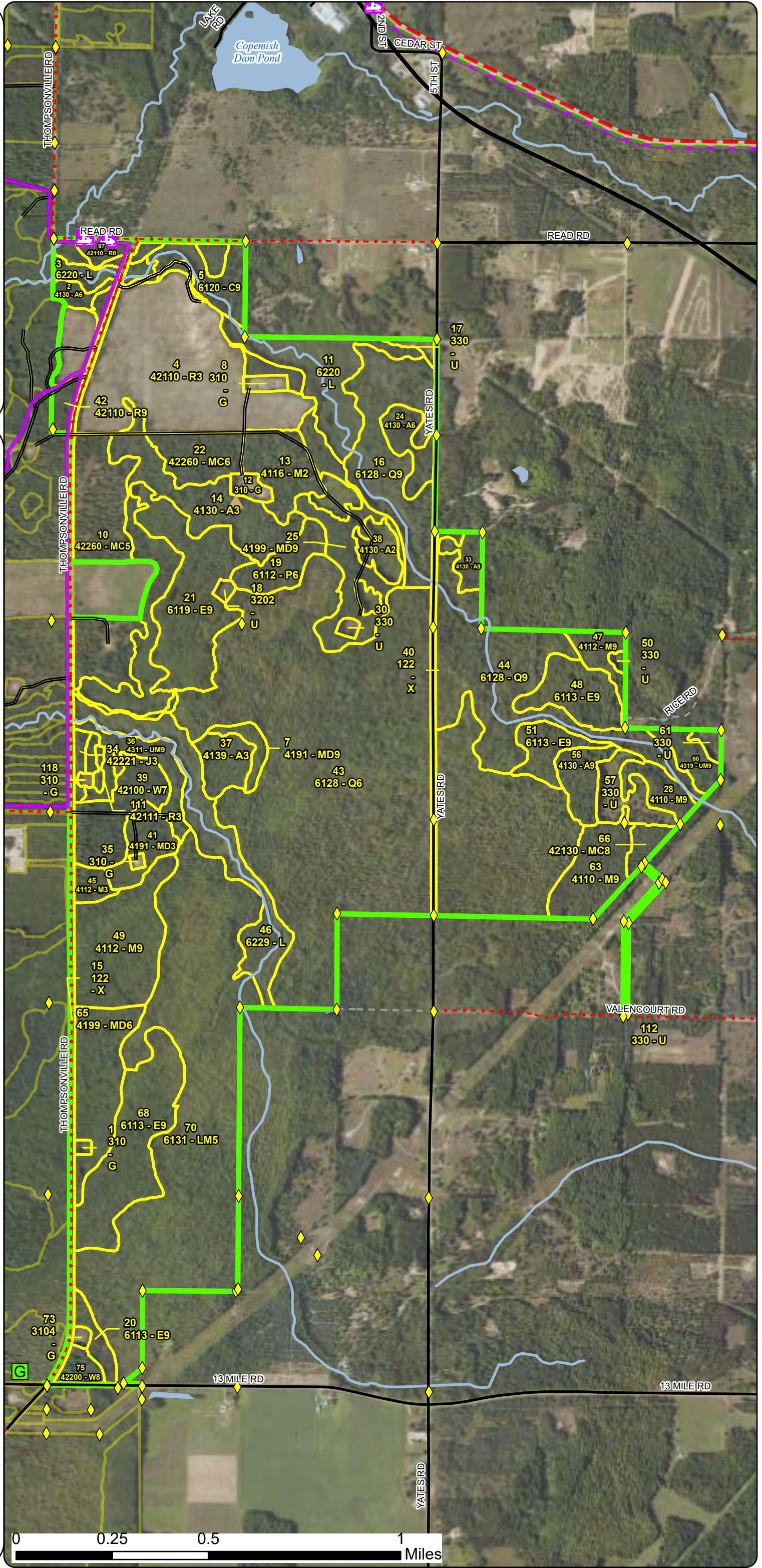
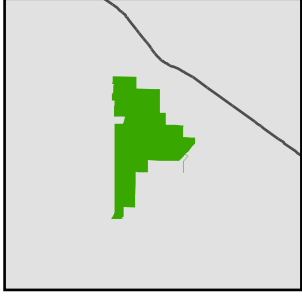


- Survey Grade Corners
- Compartment Boundary
- Clearcut
- Thinning
- Monitoring - Regeneration
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- 330 - Low Density Trees



Stand Boundary Map

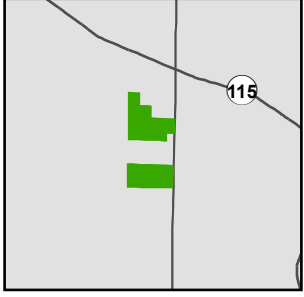
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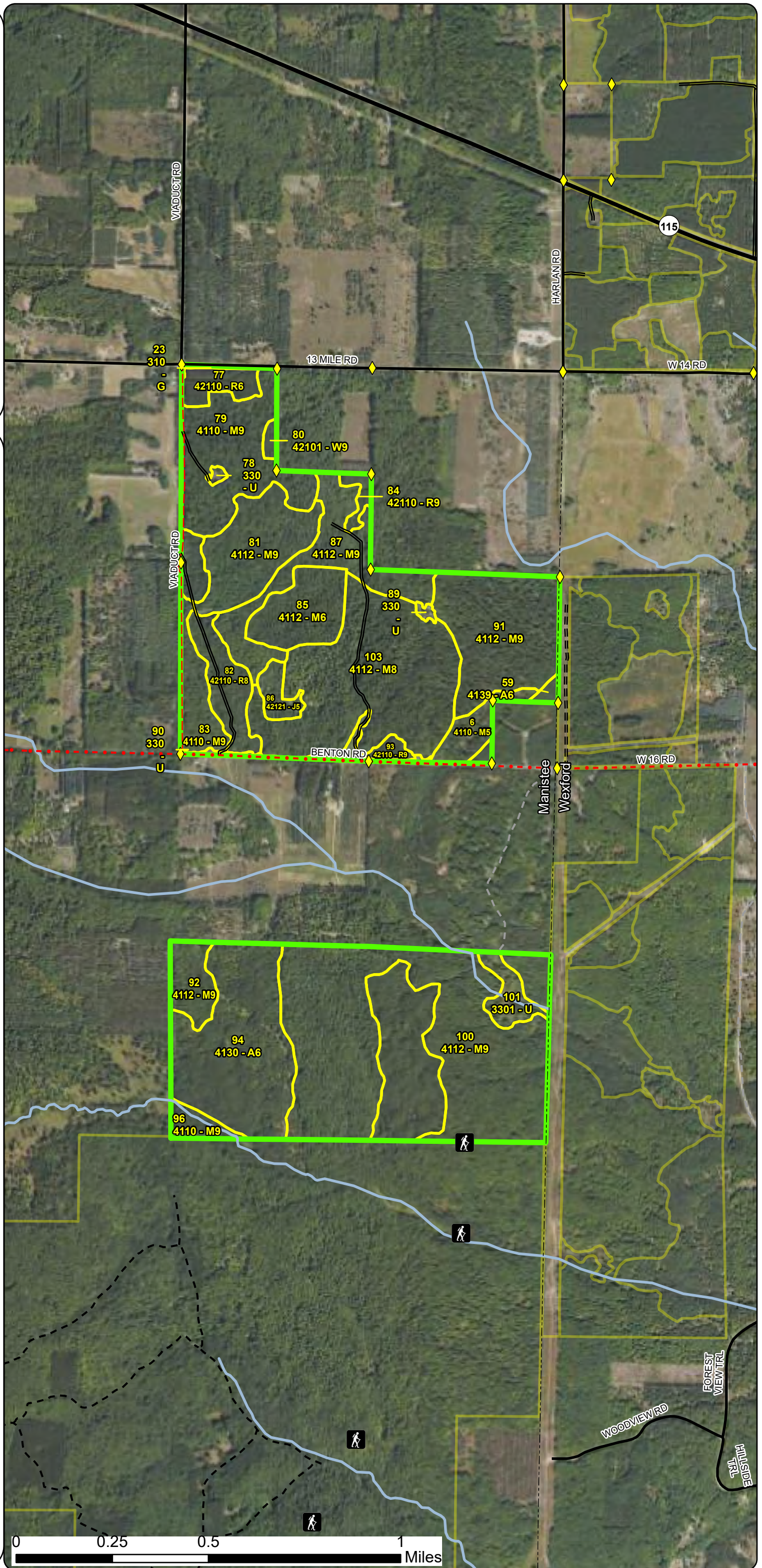
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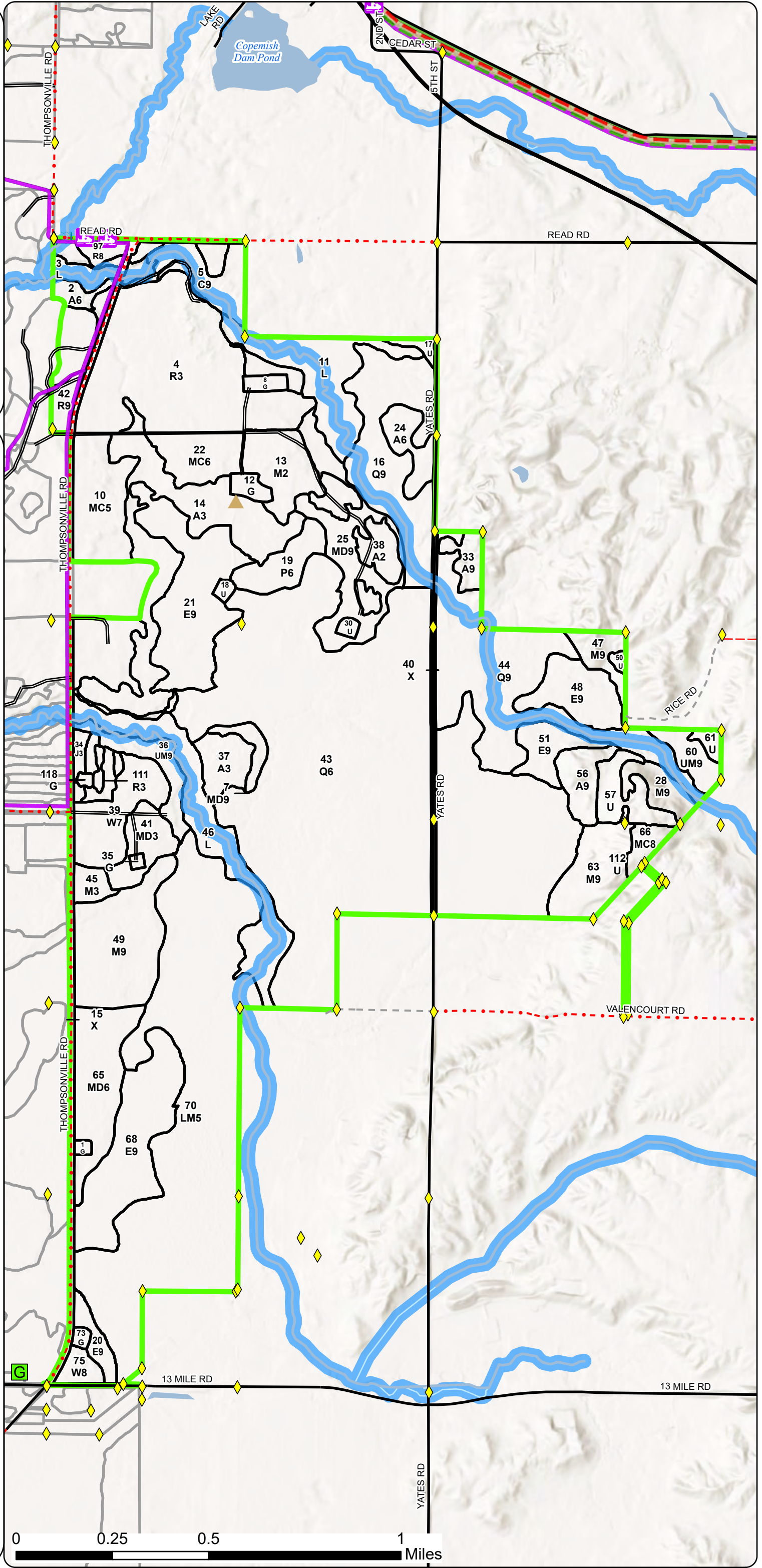
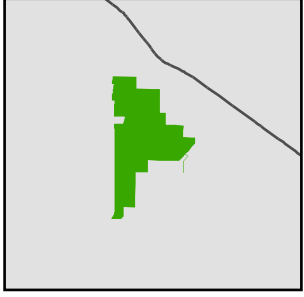












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- ▭ Compartment Boundary
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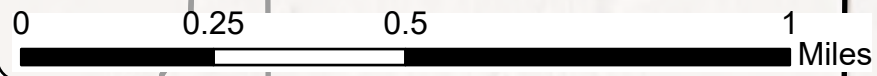


Special Conservation Areas & Site Conditions Map

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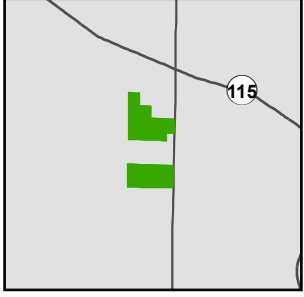







-  Survey Grade Corners
-  Culvert
-  Berm
-  Gate
-  Compartment Boundary
-  Stand Boundaries
-  SCA
-  Cold Water Streams
-  High Priority Trout Stream Buffer
-  Trail - Trail Corridor

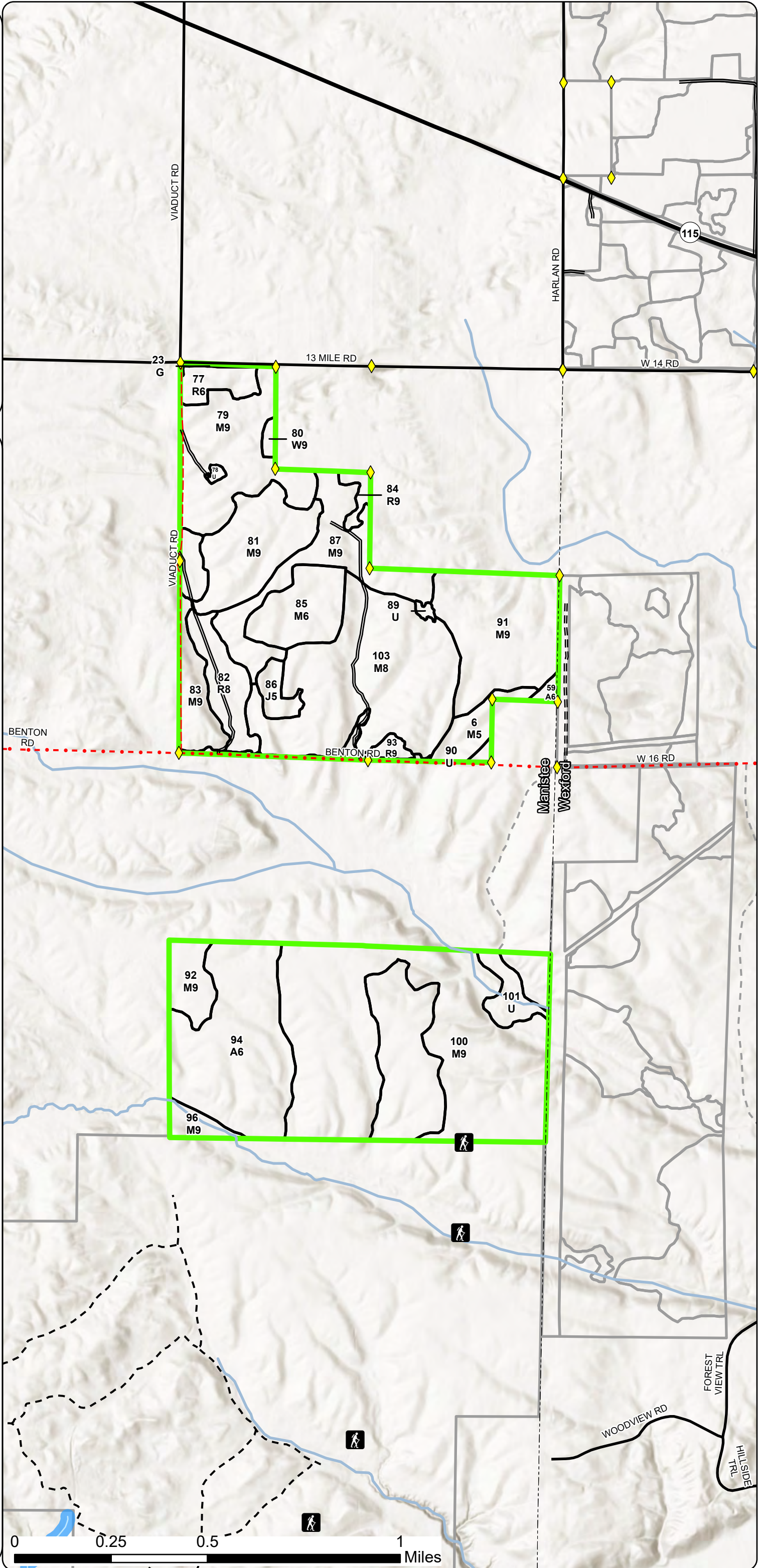


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-  Survey Grade Corners
-  Compartment Boundary
-  Stand Boundaries
-  Cold Water Streams
-  High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 37 Year of Entry 2027

Joe Ventimiglia: Examiner

Age Class

	<i>Non-Forest</i>	<i>0-9</i>	<i>10-19</i>	<i>20-29</i>	<i>30-39</i>	<i>40-49</i>	<i>50-59</i>	<i>60-69</i>	<i>70-79</i>	<i>80-89</i>	<i>90-99</i>	<i>100-109</i>	<i>110-119</i>	<i>120-129</i>	<i>130-139</i>	<i>140-149</i>	<i>150+</i>	<i>Unseen-Aged</i>	<i>Total</i>
Aspen	0	17	73	11	132	0	0	0	7	12	0	0	0	0	0	0	0	0	252
Cedar	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Jack Pine	0	0	0	6	0	0	0	7	0	0	0	0	0	0	0	0	0	0	13
Low-Density Trees	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Aspen/Balsam Poplar	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	130	0	0	0	0	0	386	516
Lowland Deciduous	0	0	0	0	0	0	7	53	0	0	68	12	0	0	0	0	0	0	140
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	194	194
Lowland Shrub	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Mixed Upland Deciduous	0	0	14	0	0	0	66	0	5	0	0	0	0	0	0	0	0	0	85
Natural Mixed Pines	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	47	64
Northern Hardwood	0	0	25	0	0	0	26	0	115	0	346	129	7	0	0	0	0	0	648
Planted Mixed Pines	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Red Pine	0	108	5	0	0	0	0	45	24	0	0	0	0	0	0	0	0	0	182
Upland Mixed Forest	0	0	0	0	0	0	0	13	0	9	0	0	0	0	0	0	0	0	22
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Urban	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
White Pine	0	0	0	0	0	0	0	2	25	0	0	0	0	0	0	0	0	5	31
Total	175	125	117	34	132	14	99	126	176	21	414	288	7	0	0	0	0	632	2359

Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 37
Total Compartment Acres: 2,361

Commercial Harvest - 312
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood	153	0	0	0	0	0	0	0	0	153
Red Pine	4	0	0	0	0	0	0	0	0	4
Total	157	0	0	0	0	0	0	0	0	157

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	157	0	0	0	0	0	0	0	0	204
Next Step	0	0	0	0	0	0	157	0	0	157
Total	157	0	0	0	0	0	157	0	0	361

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

10	61037010-Opening	47.3	42260 - Natural Pine, Mixed Deciduous	5	25	1-50	Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
49	61037049-Cut	39.1	4112 - Maple, Beech, Cherry Association	9	97	81-110	Harvest	Clearcut	4112 - Maple, Beech, Cherry Association	Planting Record	No
<p><u>Prescription</u> Final harvest leave long term retention as area left out of stand as show in the treatment layer. Leave all conifer as well.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red maple, cherry and beech. Some aspen well.</p> <p><u>Other Comment:</u> Will need to be frozen or dry condition in summer. Protect pipeline as needed. May even need crane mats to cross pipeline.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
84	61037084-Cut	4.0	42110 - Planted Red Pine	9	66	111-140	Harvest	Clearcut	4112 - Maple, Beech, Cherry Association	Planting Record	No
<p><u>Prescription</u> Final harvest no retention due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mixed black cherry, maple and beech.</p> <p><u>Other Comment:</u> objective of becoming part of stand 87 in future. Too small of site to manage for red pine. With adjacent harvest occurring this made it a good time to address this stand.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
87 61037087-Cut	42.3	4112 - Maple, Beech, Cherry Association	9	100	111-140	Harvest	Clearcut	4112 - Maple, Beech, Cherry Association	Planting Record	No
<p><u>Prescription Specs:</u> Final Harvest leaving any conifer. As well leave retention island 3 to 5 percent of total acreage. A few beech and maple should be left as future snags, no more then 10 trees in stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> mix of black cherry, maple , beech and some aspen.</p> <p><u>Other Comment:</u> Map log term retention in MIFI. Note adjacent MSU research plots in stand 81, ensure not to disturb with sale. Sale is looking to mimic success of 1970s final harvest in stand 85.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
100 61037100-Cut	71.2	4112 - Maple, Beech, Cherry Association	9	96	81-110	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Planting Record	No
<p><u>Prescription Specs:</u> Final harvest leaving any conifer in stand. As well green mark a handful of sugar maple as future snags/ seed trees. (No more then 20 trees total)</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of red maple, cherry and aspen.</p> <p><u>Other Comment:</u> Retention for this stand in place outside of proposed treatment. (see site conditions layer) Only treating portion of larger stand. Verbal access has been granted from landowner to north but specifics will need to be negotiated by producer who buys sale</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

Total Treatment Acreage Proposed: 203.9

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 37
Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions							
		With Condition			2B	5G	2F	2G	2H	3J	5E	
252	240	0		12	Aspen					12		
17	0	0		17	Cedar						17	
12	12	0		0	Herbaceous Openland							
13	13	0		0	Jack Pine							
42	42	0		0	Low-Density Trees							
14	0	0		14	Lowland Aspen/Balsam Poplar				14			
517	0	0		517	Lowland Conifers				517			
140	0	0		140	Lowland Deciduous				140			
194	0	0		194	Lowland Mixed Forest				194			
84	84	0		0	Lowland Shrub							
84	79	0		5	Mixed Upland Deciduous				5			
65	65	0		0	Natural Mixed Pines							
454	382	48		24	Northern Hardwood	9	39	10				14
6	6	0		0	Planted Mixed Pines							
182	169	0		13	Red Pine							13
22	13	9		0	Upland Mixed Forest	9						
1	1	0		0	Upland Shrub							
36	36	0		0	Urban							
32	32	0		0	White Pine							
2,166	1,173	57		936	Total Forested Acres	18	39	10	864	17	17	27
	54%	3%		43%	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	3J: Water quality/BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer area to creek.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 37
Year of Entry: 2027

2	Unavailable	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Scattered Long term retention for stand 4.							
3	Available	5G: Research Study	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is part of long term beech research study done by MSU. Hold until research is done. Research started in 2002 and was still occurring in 2025.							
4	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 100 proposed harvest. This retention is large enough to represent retention for this YOE and future YOE harvests in stand 100.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	194	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2F: Too steep	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Joe Ventimiglia: Examiner

Compartment: 37
 Year of Entry: 2027

9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	386	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 37
Year of Entry: 2027

15	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	53	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Lowland, very wet stand for the most part. Also has second creek flowing through majority of southern half of stand and contains some feeder creeks and seeps throughout.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	4	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
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1	310 - Herbaceous Openland	None	1.1			Old Oil Pad	
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2	4130 - Aspen	Poletimber Well	7.7	37	51-80	N/A	Stand was final harvested in 1989 with all red and white pine left. A few areas along creek were left out of sale too small to map.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	9		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	69	Pole	8	37	Red Pine	Low	5 - 10 feet	5 - 10 feet
White Pine	10	Log/XLog	15		White Pine	Low	5 - 10 feet	5 - 10 feet
Red Pine	3	Log	15					
Black Cherry	8	Log/Pole	14					

3	6220 - Alder/Willow	None	8.0			No	Hatches (Second) Creek. Looks like mostly tag alder from edge, with some willow. An occasional maple, a trace of cedar, an occasional fruiting shrub. A little bit of joe pye weed.
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Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Medium	Not Applicable	Not Applicable
Tag Alder	High	5 - 10 feet	5 - 10 feet
Maple (spp.)	Low	Variable	Variable
Willow spp.	Medium	5 - 10 feet	5 - 10 feet
Northern White Cedar	Trace	Variable	Variable

4	42110 - Planted Red Pine	Sapling Well	108.0	6	Immature	N/A	Stand was final harvested and chipped in 2017. Red pine planting successful with a lot of red pine volunteers as well. Some pockets of jack pine as well. 9/01/2023 - Year 3 Regen Survey was completed 9/1/2023. Stand is currently has 906 Trees per acre and is 96% Free to Grow. 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 1045 trees per acre. Stand is free to grow at this time no herbicide treatment is currently recommended. 2021 - Both areas of stand, east and west of Thompsonville rd were planted on 4/27/2021. Stand is to be planted to red pine at plantation spacing. Stand includes two larger retention pockets with 5E site conditions on them along with some edge retention.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	90	Sapling	1	6
Jack Pine	10	Sapling	2	

5	6120 - Lowland Cedar	Sawtimber Well	16.6	100	Unspecified	N/A	Cedar/hemlock stand along Second creek with, fir and WP throughout - some very large WP present. Saw steelhead in creek in early winter.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	1	Log/XLog	15		Tag Alder	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	5	Pole/Sapling	7		Black Ash	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	65	Log/Pole	11	100	Musclewood/Hornbeam	Low	10 - 20 feet	10 - 20 feet
White Pine	4	XLog/Log	18					
Hemlock	25	Log/Pole	12					

6	4110 - Sugar Maple Association	Poletimber Medium	11.6	76	1-50	N/A	Seed tree cut in 2019. In 2025 left with scattered mostly pole size sugar maple with sparse understory of cherry, beech and ironwood. Overstory sparse.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	85	Pole/Log	9	76	Ironwood	Medium	Variable	Variable
Red Maple	10	Log	15	76	Black Cherry	Low	Variable	Variable
Black Cherry	5	Log/XLog	15		Beech	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.3	76	81-110	N/A	Small strip if uncut timber from wildlife harvest to west.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Log/Pole	13	76
Bigtooth Aspen	35	Log/Pole	14	76
Northern White Cedar	15	Log/Pole	14	
Hemlock	5	Log/Pole	10	
Black Cherry	5	Log	14	

8	310 - Herbaceous Openland	None	3.0				State Clean 4-19
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10	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	47.3	25	1-50	N/A	Old open area that over last few decades has seeded in well to mixed red and white pine. Scattered black cherry throughout. Variable age and size classes in the pine. Pipeline and abandoned well site in south end.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Pole/Log	7		Honeysuckle (spp.)	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	4	Pole	8		Witch Hazel	Low	5 - 10 feet	5 - 10 feet
White Pine	15	Pole/Sapling	6					
Red Pine	46	Pole/Sapling	7	25				
Jack Pine	2	Pole	5					
Black Cherry	30	Pole/Log	9					
Scotch Pine	2	Pole/Sapling	5					

11	6220 - Alder/Willow	None	34.5			No	From edge, appears to be all tag alder with some maples mixed in. From imagery, there appears to be small areas of grasses/sedges or maybe cattails along the river.
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12	310 - Herbaceous Openland	None	3.8				State Clean well 1-19
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13	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	20.3	18	Immature	N/A	Stand was final harvested in 2008. Scattered hardwood left along with any conifer at time. Came back to aspen, red maple and black cherry. Patchy in spots.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	3	Log	10		Witch Hazel	Medium	5 - 10 feet	5 - 10 feet
Red Maple	55	Sapling	3	18				
Bigtooth Aspen	34	Sapling	2	18				
White Pine	4	Log/Pole	14					
Black Cherry	4	Log	10					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
14	4130 - Aspen	Sapling Well	61.3	12	Unspecified	N/A	Stand was final harvested in 2014. All cedar and hemlock was left. Stand is upland but appears to have some lowland character seasonally .																																																													
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15	122 - Road/Parking Lot	None	26.3			No	Phragmites along roadway, concentrated to areas <1 mile north of 13 mile rd where high water table exists.																																																													
16	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	52.6	102	171-200	N/A	Majority lowland stand with numerous seeps and a few creeks trickling into second creek which runs through stand. Pockets of blow down, now occupied by thick balsam fir in most places, other areas of stand that have full overstory stocking in tact have little if any understory regen. Small upland along north line.																																																													
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17	330 - Low-Density Trees	None	2.4			No	Opening filling in with aspen, white pine, red pine, cherry and maple.																																																													
18	3202 - Autumn Olive/Honeysuckle	None	1.4			No	Two track leading to this stand is grown in with autumn olive and raspberry. An old well pad that was planted to autumn olive.																																																													
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19	6112 - Lowland Aspen	Poletimber Well	14.2	46	1-50	N/A	Stand was final harvested in 1980. Hummocky stand with higher water table, most notably along edges of stand and in the more eastern reaches of stand. Balsam fir is numerous in some pockets, trace cedar along southern edge. Stand is in the process of transitioning from sapling to pole dominant - Aspen composition is dominated by poles with some saplings still present. Determined overall size to be pole but it is important to note that many areas have significant sapling density. (old comment) stand is marginally upland, gets wetter as you move east, evidence of old logging activity, rutting, still holding water, white pine sub-canopy occurs mostly in east half of stand																																																													
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20	6113 - Lowland Maple	Sawtimber Well	6.6	56		N/A	Transition zone of lowland maple.																																																						
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21	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	52.7	61	51-80	N/A	May have been habitat cut in 1967. Lowland stand, high water table, some seeps and areas where sheet flow seems to occur year round. Red maple seems to be most dominant with aspen clones present throughout stand. Cedar scattered throughout with scattered balsam fir as well. Northern lobe was part of stand 14 final harvest but was too wet for equipment without causing BMP concerns.																																																						
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22	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	17.3	29	1-50	N/A	Old open area that has filled in nicely to mix of red, white and jack pine. Some variability in age and size class of pine. Scattered black cherry and one small aspen clone.																																																						
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23	310 - Herbaceous Openland	None	0.9			No	Road and Road ROW																																																						
24	4130 - Aspen	Poletimber Well	11.2	28	Unspecified	N/A	Stand was final harvested in 1997. All cedar and hemlock left. Came back well to aspen and some hardwood.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
25	4199 - Other Mixed Upland Deciduous	Sawtimber Well	32.7	56	51-80	N/A	Stand was final harvested in 1969 with conifer left at that time.																																											
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Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Maple	45	Log/Pole	10	56																																														
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Balsam Fir	Low	5 - 10 feet	5 - 10 feet																																															
28	4110 - Sugar Maple Association	Sawtimber Well	10.0	100	111-140	N/A	Hardwood stand on NE facing slope - stand terminates at bottom of ridge where second creek is located. Descent quality, slope and BMP's preclude management, as does lack of sufficient access.																																											
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30	330 - Low-Density Trees	None	1.5			No	Old well site filling in.																																											
33	4130 - Aspen	Sawtimber Well	7.0	75	81-110	N/A	Nice aspen stand with mix of white pine, red maple, sugar maple, yellow birch and cedar on edges. Hilly to steep terrain with wet area to cross to get bulk of stand from west.																																											
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34	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	5.7	28	Immature	N/A	Stand was final harvested in 1997. Scattered hardwood left. Came back to mix of jack pine and hardwood.																																											
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Jack Pine	65	Sapling	4	28																																														
Black Cherry	15	Pole/Sap/Log	5																																															
35	310 - Herbaceous Openland	None	0.8				State Cleon well 1-30 temp abandoned.No evidence of any remediation on this site. No infrastructure left.																																											

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36 4311 - Pine, Aspen Mix Sawtimber Well 13.0 67 51-80 N/A Mixed stand along edge of creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	18	Log/Pole	12		White Pine	Low	Variable	Variable
Bigtooth Aspen	33	Log	13		Red Maple	Low	10 - 20 feet	10 - 20 feet
White Pine	40	Log/XLog	13	67				
Red Pine	4	Log	14					
Black Cherry	5	Log	16					

37 4139 - Aspen, Mixed Deciduous Sapling Well 12.1 16 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	50	Sapling	2	16
Bigtooth Aspen	45	Sapling	2	16
Black Cherry	5	Sapling	2	

Old Comments- Stand was final harvested by a habitat cut through WLD and RGS in 2009. All trees were felled and left whole. Sign explaining cut/funding/purpose is located on west side of creek, nearest access and is in good shape. (old comment) good potential for red-shouldered hawk nesting, saw an inactive nest, sub-canopy seedlings are heavily browsed, generally low quality timber, aspen is old and dying, red maple is 50% multiple stem, black cherry poor-medium quality, moss ground cover is lycopodium

38 4130 - Aspen Sapling Medium 16.9 7 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Quaking Aspen	80	Sapling	1	7
Balsam Fir	2	Sapling	1	
White Pine	4	Pole/Sap/Log	6	
Black Cherry	4	Sapling	1	

Stand was final harvested in 2018. Scattered conifer left. Came back patchy to mixed aspen and hardwoods.

39 42100 - Planted White Pine Sawtimber Poor 24.5 74 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	95	Log	14	74	Quaking Aspen	Trace	Variable	Variable
Red Pine	5	Log	14		Red Maple	High	>20 feet	>20 feet
					Black Cherry	Medium	>20 feet	>20 feet

White pine was interplanted in 1952. Stand was shelterwood/seed tree harvested in 2008 with scattered white pine left.

This harvest created a flush of red maple regeneration. 2025 a tow aged stand of planted white pine over hardwood regen.

40 122 - Road/Parking Lot None 9.9 No

41 4191 - Mixed Upland Deciduous with Conifer Sapling Well 13.6 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	58	Sapling	2	17
Quaking Aspen	10	Sapling	2	
White Pine	1	Log/XLog	15	

Stand was final harvested in 2008. All white pine was left. The stand was jack pine prior to final harvest. Came back to mix of jack pine and red maple. Some areas as all red maple while others area heavy to jack pine.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
42	42110 - Planted Red Pine	Sawtimber Well	13.3	76	81-110	N/A	Stand was planted in 1950. LTR for stand 4. Small vernal pond in west block. This retention area was thinned in 2009.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log	15	76	White Pine		Medium	Variable	Variable
						Red Pine		Medium	Variable	Variable
43	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	386.3	105	51-80	N/A	Large lowland complex. Significant variability going from more of e type to lowland conifer patches. Some old records of potential management attempts but nothing in last 50 plus years.(may have been habitat cuts)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Log/Pole	12		Balsam Fir		High	Variable	Variable
Paper Birch		3	Pole/Sapling	6		Black Ash		Medium	10 - 20 feet	10 - 20 feet
Quaking Aspen		10	Log/Pole	16		Dogwood (spp.)		Low	5 - 10 feet	5 - 10 feet
Balsam Fir		10	Pole/Log	8		Red Maple		Low	Variable	Variable
Black Spruce		3	Pole	8		Tag Alder		Medium	5 - 10 feet	5 - 10 feet
Northern White Cedar		33	Pole/Log	8	105					
Tamarack		6	Pole/Log	8						
White Pine		5	Log/XLog	16						
Hemlock		5	Pole/Log	8						
44	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	77.7	102	171-200	N/A	Majority lowland stand with numerous seeps and a few creeks trickling into second creek which runs through stand. Pockets of blow down, now occupied by thick balsam fir in most places, other areas of stand that have full overstory stocking in tact have little if any understory regen. Lots of deer activity throughout, saw a set of bear tracks w/in stand at time of inventory. (old comment) areas of windthrow, also areas of accumulations of dead suppressed pole size cedar, hemlock, balsam fir, sub-canopy balsam fir regenerating heavily in open areas, also heavy browsing in some areas			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Log/Pole	12		Red Maple		Low	Variable	Variable
Yellow Birch		10	Log/Pole	12		Balsam Fir		Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen		5	Log	13		Black Ash		Low	Variable	Variable
Balsam Fir		3	Pole	8						
Northern White Cedar		15	Log/Pole	10						
45	4112 - Maple, Beech, Cherry Association	Sapling Well	5.4	17	1-50	N/A	Stand was seed tree cut in 2008. Came back well to red maple. Scattered trees left not enough to be considered overstory.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		65	Sapling	2	17					
Red Maple		4	Log/Pole	12						
White Pine		2	Log	16						
Jack Pine		2	Sapling	2						
Black Cherry		10	Log	14	87					
Black Cherry		17	Sapling	2						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
46	6229 - Mixed Lowland Shrub	None	41.2			No	Lots of sedges. Some dead standing timber. Fern and mixed forbs.																																								
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47	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.9	92	111-140	N/A	Mixture of aspen and northern hardwood association - dependent on aspect. Some descent sugar maple stems present, variable stocking with BA hovering in the 110-120 sq ft/ac range. (old comment) steep ridge bisects stand, west facing slope is aspen, east slope is pole size sugar maple association, dark crowns on imagery are basswood, traces of beech, black cherry, and white ash present in stand																																								
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Ironwood	Low	Variable	Variable																																												
48	6113 - Lowland Maple	Sawtimber Well	20.5	97	81-110	N/A	As previous comments mention, stand is quite a bit wetter along west edge with somewhat dryer pockets along east edge, although still considered lowland. Red maple is generally clumpy with some fair quality single stemmed individuals present. conifers throughout in trace amounts, most notably along southern edge where stand fazes to adjacent Q-type and cedar/balsam become more common. (old comment) stand becomes increasingly lower/wetter from east to west, some small upland inclusions in the east end of stand, balsam fir becomes prominent in subcanopy and diameters decrease as you move west through stand (toward wetter portion of stand), traces of black cherry, white pine, and hemlock. Includes old well pad that has filled in with aspen and pine.																																								
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49	4112 - Maple, Beech, Cherry Association	Sawtimber Well	44.2	97	81-110	N/A	Overall upland stand although pocket of wet along road and pipeline.. (1998 imagery shows this well) Red maple dominate but some white pine hemlock scattered in.																																								
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50	330 - Low-Density Trees	None	1.2			No																																									

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51	6113 - Lowland Maple	Sawtimber Well	12.1	102	81-110	N/A	Lowland stand with larger red maple and aspen present. Scattered large yellow birch throughout as well. Some large balsam fir present, along with some cedar and hemlock as well, most notably along eastern edge of stand. WP present along eastern stand boundary adjacent to stand 56. Small creek flowing in northerly direction. (old comment) traces of cedar and balsam fir in canopy																																																	
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56	4130 - Aspen	Sawtimber Well	12.2	80	111-140	N/A	Overmature Aspen still holding together. Some red maple and white pine mixed. Stand slopes down to lowland on west line.																																																	
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57	330 - Low-Density Trees	None	13.6			No	Interesting old field, with some evidence of old home foundations. Hilly terrain. East and west fields seperated by hill and two treed lobes. West part has allot of spotted knapweed, and old apple tree and a hole (old foundation?). East field has about 60% cool summer grasses, 40% spotted knapweed.																																																	
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59	4139 - Aspen, Mixed Deciduous	Poletimber Well	3.4	35	Unspecified	N/A	Stand was final harvested in 1991. Came back to aspen and mixed hardwood.																																																	
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60	4319 - Mixed Upland Forest	Sawtimber Well	9.2	82	81-110	N/A	Stand slopes down to creek, very difficult foot access for public.																																																	
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61	330 - Low-Density Trees	None	2.8			No	Old opening filling in. Possible trespass case on north line.																																																	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
63	4110 - Sugar Maple Association	Sawtimber Well	23.9	107	141-170	N/A	Very high quality stand, sugar maple dominant with nice black cherry and beech. No evidence of past management. Beech looks good all ash is on the ground. Hilly terrain with lower quality along west edge. Hemlock in understory most notably in northern portion of stand - small spring forming tributary to 3rd creek also contains significant hemlock, trace in overstory in this specific location. Topo is significant in parts, slopes to the west where stand fazes into adjacent lowland. Vernal pond in SE corner.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		72	Log	15	107	Beech		Low	< 5 feet	< 5 feet	
Red Maple		5	Log/Pole	12		Hemlock		Low	Variable	Variable	
Basswood		2	Log	16							
Beech		6	Log	14							
Black Cherry		15	XLog/Log	18							
65	4199 - Other Mixed Upland Deciduous	Poletimber Well	32.9	56	51-80	N/A	Stand was final harvested in 1970, appears white pine and hemlock was left at that time. Came back to aspen and red maple, but red maple seems to be taking hold with aspen falling out in spots. Overall upland but likely seasonally wet at times.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		50	Pole	8	56	Beech		Low	Variable	Variable	
Paper Birch		4	Pole	8		White Pine		Low	Variable	Variable	
Quaking Aspen		27	Pole	8	56	Black Cherry		Low	Variable	Variable	
Balsam Fir		4	Pole	7							
Northern White Cedar		1	Pole	8							
White Pine		12	Log/XLog	15							
Hemlock		2	Pole	7							
66	42130 - Planted Scotch Pine	Sawtimber Medium	5.9	63	1-50	N/A	Falling apart scotch pine planation with a few rows of red pine in south end. Full sugar maple understory developed. In south tip all pine has fell out and maple regen is taking over. Rolling terrain.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		15	Log/Pole	13		Beech		Low	Variable	Variable	
Jack Pine		5	Log/Pole	10		Sugar Maple		High	Variable	Variable	
Black Cherry		5	Log/Pole	11							
Scotch Pine		75	Log/Pole	10	63						
68	6113 - Lowland Maple	Sawtimber Well	47.8	96	81-110	N/A	Lowland maple stand common for this region. Significant variability in diameters. Stand water noted in winter and likely most times of year, may dry out for short times in summer...				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		85	Log/Pole/XLog	14	96	Hemlock		Low	Variable	Variable	
Yellow Birch		5	Log/Pole	10		Red Maple		Medium	Variable	Variable	
Balsam Fir		5	Pole/Sapling	6		Tag Alder		Low	5 - 10 feet	5 - 10 feet	
White Pine		2	Log/XLog	15							
Silver Maple		3	Log/XLog	15							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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70 6131 - Hemlock, White Pine, Maple, Birch Poletimber Medium 193.8 67 51-80 N/A Large lowland complex. Viewed from edges appears to be mostly stagnate lowland. Well forested overall but appears to open more stagnate areas as well. Thick very wet stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Pole/Sap/Log	8	67
Yellow Birch	6	Pole	8	
Paper Birch	2	Pole	8	
Quaking Aspen	3	Log/XLog	12	
Balsam Fir	5	Pole	7	
Northern White Cedar	15	Pole/Log	8	
White Pine	10	Pole/Log/XLog	8	
Hemlock	15	Pole/Log	8	
Black Ash	2	Pole/Sapling	5	
Silver Maple	2	Log/XLog	11	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
White Pine	Low	Variable	Variable
Black Ash	Medium	Variable	Variable
Northern White Cedar	Low	Variable	Variable
Hemlock	Low	Variable	Variable

73 3104 - Degraded None 1.4 Schmude Oil Inc. Cleon No. 1-31 Oil well head. Not "Degraded", but "Low Intensity Urban".

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Medium	Not Applicable	Not Applicable
Mixed Grasses	Medium	Not Applicable	Not Applicable
St. Johns Wort	Trace	Not Applicable	Not Applicable
Blackberry/Raspberry	Low	5 - 10 feet	5 - 10 feet

75 42200 - Natural White Pine Sawtimber Medium 5.3 141 81-110 N/A Small semi open stand with scattered large XL stems but much variability in diameters. One can see from older imagery the stand was more open on west end but has filled in to be one stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	8	
Quaking Aspen	3	Log/Pole	12	
Northern White Cedar	1	Log/Pole	10	
White Pine	88	XLog/Log/Pole	20	141
Black Cherry	3	Log	15	

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

77 42110 - Planted Red Pine Poletimber Well 10.2 64 111-140 N/A Stand was planted in 1962. Stand was third row thinned in 1998.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Pole/Log	9	64

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	< 5 feet	< 5 feet
White Pine	Low	< 5 feet	< 5 feet
Beech	Medium	< 5 feet	< 5 feet

Stand was second thinned in 2007.

78 330 - Low-Density Trees None 1.0 No Old opening/ well site filling in with sugar maple saplings.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
79	4110 - Sugar Maple Association	Sawtimber Well	52.7	106	51-80	N/A	Stand was thinned in 1999. Stand was thinned again in 2018.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		87	Log	15	106	Ironwood	Medium	10 - 20 feet	10 - 20 feet
Basswood		1	XLog	18		Sugar Maple	Trace	Variable	Variable
Beech		1	XLog/Log	18		Beech	Medium	10 - 20 feet	10 - 20 feet
White Pine		1	XLog/Log	20		Hemlock	Low	Variable	Variable
Black Cherry		10	XLog/Log	18		Black Cherry	Medium	10 - 20 feet	10 - 20 feet
Nice quality sugar maple dominate stand. The best quality found within this compartment. Overstory in good shape with little desirable regen from past harvest.									
80	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	2.0	64	81-110	N/A	Stand was planted in 1962. Stand was thinned in 2017. Small strip of planted white pine with scattered hardwood.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		10	Pole/Log	8		Beech	Medium	< 5 feet	< 5 feet
White Pine		80	Log/Pole	12	64				
Black Cherry		10	XLog	20					
81	4112 - Maple, Beech, Cherry Association	Sawtimber Well	39.0	99	81-110	N/A	Lower quality hardwood with mixed white pine underplanted or planted in openings in 1962. White pine doing well where not overtopped. Stand heavy to red maple, cherry and beech. As of 2025 beech still looks solid with only some scale noted in a few stems.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		15	Log	12		White Pine	Low	Variable	Variable
Red Maple		35	Log/XLog	16	99	Black Cherry	Low	Variable	Variable
Beech		20	Log	15		Beech	High	Variable	Variable
White Pine		15	Log/Pole	12	64	Ironwood	Medium	Variable	Variable
Black Cherry		15	Log/XLog	16					
82	42110 - Planted Red Pine	Sawtimber Medium	26.9	64	1-50	N/A	Stand was planted in 1962. Stand was third row thinned in 1998.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		5	Log/XLog	17		Sugar Maple	High	>20 feet	>20 feet
Red Pine		90	Log	13	64	Ironwood	Medium	Variable	Variable
Black Cherry		5	XLog/Log	22		Beech	Medium	Variable	Variable
Stand was shelterwood cut in 2007. Shelterwood cut in 2007 spurred good sugar maple regeneration. Good example of sugar maple under red pine.									
83	4110 - Sugar Maple Association	Sawtimber Well	16.9	96	81-110	N/A	Stand was thinned in 2009. Decent quality hardwood on ridge. Steep slope on east line. Mostly beech and ironwood in understorey.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		78	Log	15	96	Sugar Maple	Trace	Variable	Variable
Red Maple		10	Log	16		Beech	Medium	Variable	Variable
Beech		2	Log	14		Black Cherry	Low	Variable	Variable
Black Cherry		10	Log/XLog	16		Ironwood	Medium	10 - 20 feet	10 - 20 feet
84	42110 - Planted Red Pine	Sawtimber Well	4.0	66	111-140	N/A	Stand was third row thinned in 1998. Stand was second thinned in 2007. Very dense beech understorey.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log	13	66	Beech	Full	Variable	Variable
						Ironwood	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
85	4112 - Maple, Beech, Cherry Association	Poletimber Well	26.0	52	81-110	N/A	Stand was final harvested in 1973. Stand was planted in 1974 to hybrid aspen? (Research) Only found one hybrid aspen still alive. Came back well to mix of maple, cherry, beech and a few aspen.																																														
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86	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Medium	7.0	64	Unspecified	N/A	Jack pine planted in 1962. Planted jack pine doing poorly on these soils. Very small diameter and size for age. Like past comments mention providing good cover for wildlife. See old comment - recommend leaving small stand to naturally deteriorate, is functioning well as shelterwood for hardwood species regen. (old comment) low quality/off-site jack pine, variable diameter and height, appears to be serving a habitat role as cover for wildlife, numerous deer runways through stand, small acreage and low volume are not commercially desirable, recommend leaving to serve as habitat and allow to naturally convert to hardwood over time																																														
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87	4112 - Maple, Beech, Cherry Association	Sawtimber Well	42.3	100	111-140	N/A	Originally part of current stand 103, no history of recent management. Quality is mediocre throughout, many multiple stemmed, clumpy individual trees. Significant amount of beech in some areas of stand.																																														
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89	330 - Low-Density Trees	None	1.1			No	Little opening filling hardwood.																																														
90	330 - Low-Density Trees	None	4.8			No	Frost pocket. Black cherry with an occasional juneberry. All bracken fern. Also includes ROW of county road.																																														
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91	4112 - Maple, Beech, Cherry Association	Sawtimber Well	58.5	96	51-80	N/A	Stand was thinned in 2019. (most of beech was cut)Thinning resulted in flush of beech, ironwood and some black cherry regen. Slight rolling terrain.																																														
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92	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.9	98	81-110	N/A	Slightly more sugar maple than larger stand to east but again low quality with red maple dominate.																																																
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93	42110 - Planted Red Pine	Sawtimber Well	3.3	63	111-140	N/A	Stand was planted in 1962. Stand was third row thinned in 1998. Stand was second thinned in 2007.																																																
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94	4130 - Aspen	Poletimber Well	120.7	37	51-80	N/A	Stand was final harvested in 1989 with all oak left. Portion of stand trenched and planted with 20,000 European Larch in 1991, poor survival. Only a handful left. Stand came back well to mixed aspen and hardwood. Some open areas in pockets but overall came back well.																																																
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96	4110 - Sugar Maple Association	Sawtimber Well	7.0	111	51-80	N/A	Small sliver of stand to north that was left due to small creek and steep slope up to private property line. Good to leave as unofficial retention some good future wildlife snag potential in stand.																																																
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97	42110 - Planted Red Pine	Sawtimber Medium	10.8	76	1-50	N/A	Stand was planted in 1950. Mixed red, white and red maple filling in understory of stand. Stand was originally part of stand 4 to the south as a multi part stand but the 4 pieces that now make up this stand were heavily thinned/shelterwood harvested under tsale contract 018-17-01 and are now their own stand. Stand was thinned in 2009. Stand was shelterwood cut in 2017.(Green Marked)																																																
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Beech	Low	5 - 10 feet	5 - 10 feet																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
100	4112 - Maple, Beech, Cherry Association	Sawtimber Well	164.4	96	81-110	N/A	Low quality mixed red maple, cherry and beech stand. Aspen spread throughout portions of stand as well. Many maple appear to be stump sprout origin stems with very little sugar maple in stand. Rolling terrain with one steep ridge on east side of stand. No history of recent management with exception of some oaks acorns that were planted in early 1990s. Most of these did not make it. (this was only in small portion of stand)																																																					
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101	3301 - Low Density Deciduous Trees	None	10.0			No	Mixed low density trees in opening.																																																					
103	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	103.4	76	51-80	N/A	Stand was thinned in 2008. Lowest quality of the hardwood withing this block of state land. Heavy beech/ ironwood/ black cherry understory has created two aged stand. old comment- Relatively low quality hdwd stand - BA ranges from 50-90, typically near the middle of this range with some exception. Significant mortality throughout, most notably on SM. Documented (USFS Cadillac, Lint, MDNR) ETC defoliation along with drought years at time of harvest may have been the perfect storm of stressors, enough to cause mortality. east part of stand has a lot of black cherry with some good quality/potential, some cherry regeneration present, could probably regenerate cherry on this site																																																					
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111	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	5.4	17	Immature	N/A	Stand was final harvested in 2008 and planted to red pine in 2009. Planted red pine free to grow in areas and others being overtopped by aspen and hardwood. This was before free to grow guidance so not competition measures used.																																																					
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112	330 - Low-Density Trees	None	3.6			No	This is not State owned land but us a undeveloped easement for ingress and egress for the public on foot. A portion already has a road but another portion to north is full of planted spruce. The easement was acquired in 2005 but to this date has not been used for access.																																																					
118	310 - Herbaceous Openland	None	0.9				Old well site, was not planted through when adjacent stands/strips were treated/planted.																																																					