

# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61037

Entry Year: 2027

Acreage: 2,361

County: Manistee

Management Area: Grand Traverse Moraine

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**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:**

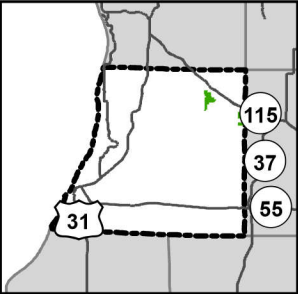
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

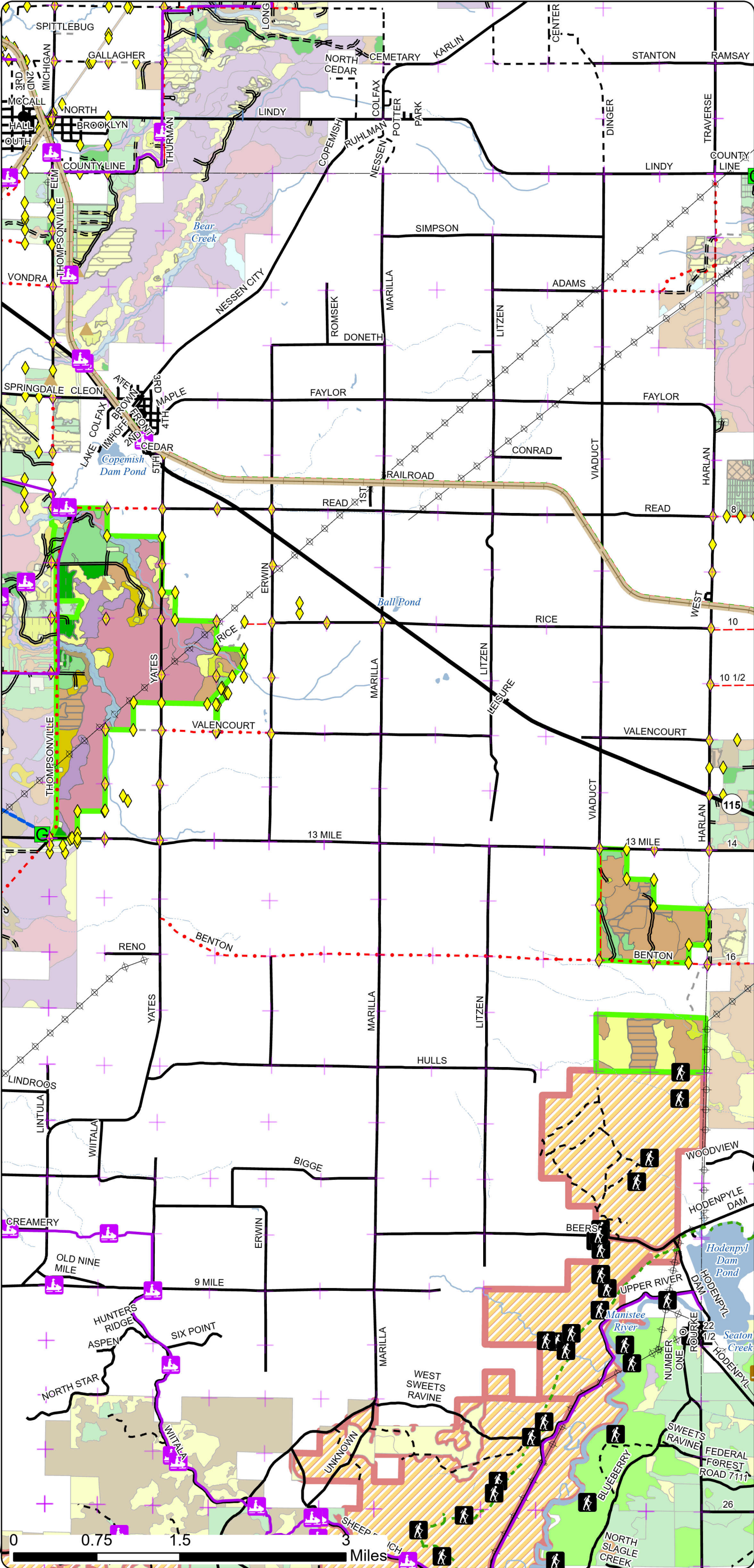
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

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: 7/1/2025  
Map Phase: Web Post

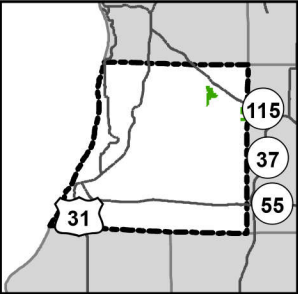


- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Gate
- Bridges
- Culvert
- Campground
- City
- Parking Lot
- Designated Bicycle Trails
- Designated Hiking Pathways
- Designated Snowmobile Trails
- RailTrail
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Powerline
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Openings Mgmt.
- Clearcut
- Selection
- Seed Tree
- Shelterwood
- Site Prep
- Planting (tree species)
- Openings Mgmt.
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 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

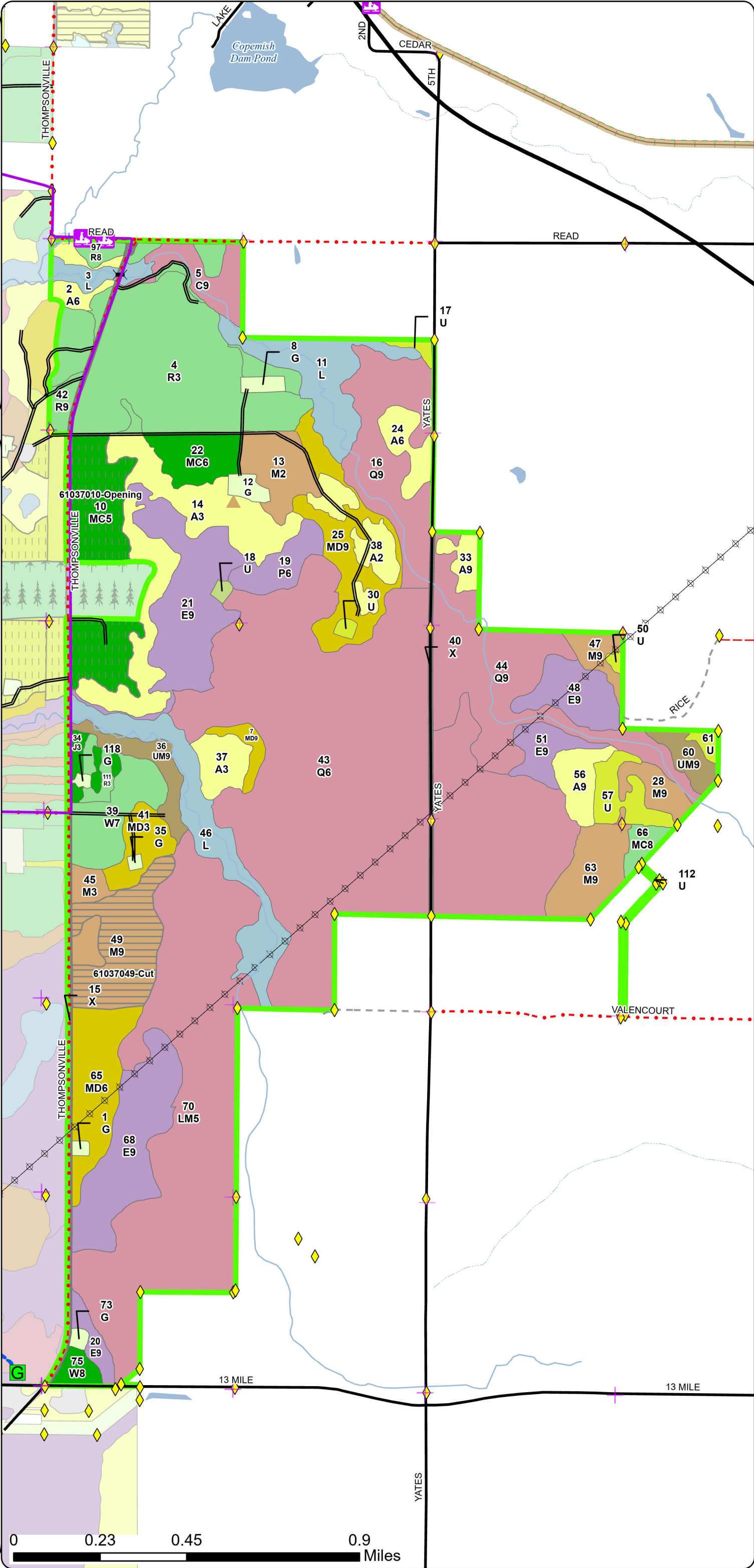


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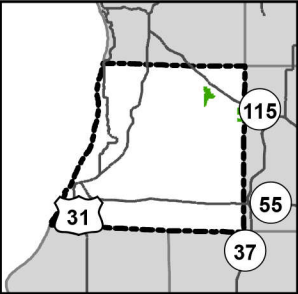


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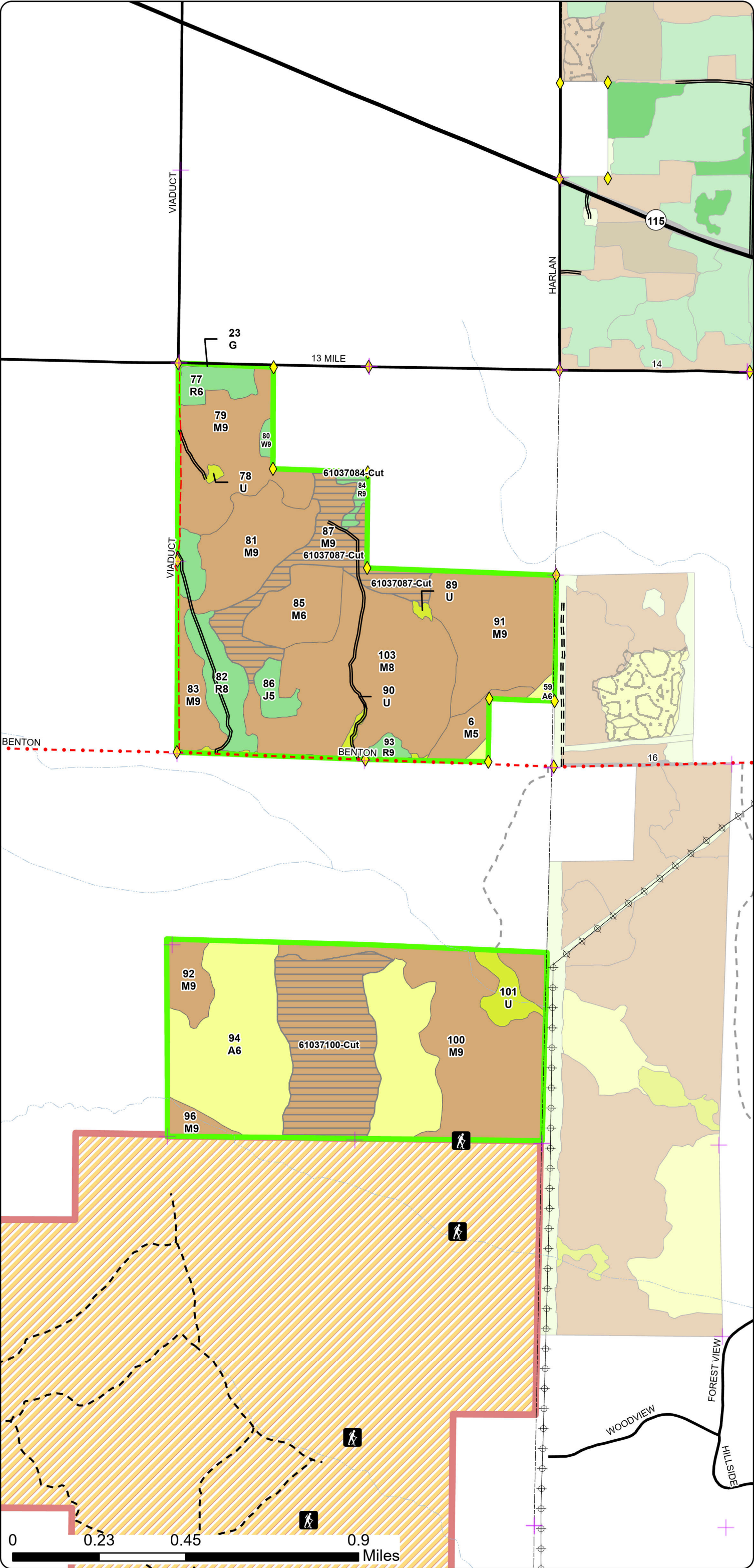


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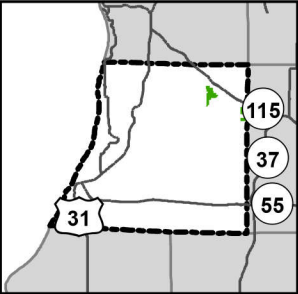


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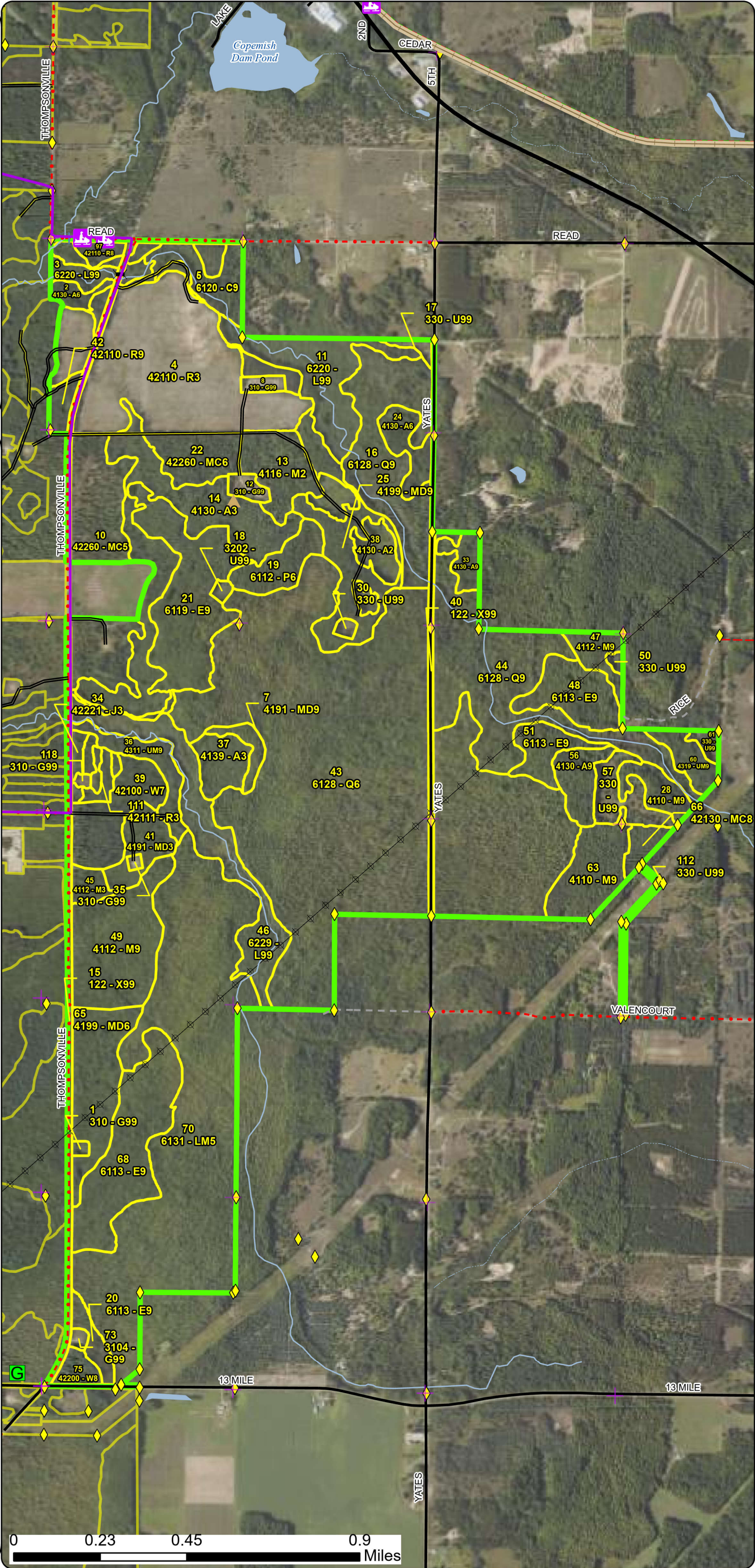


Stand Boundary  
Map

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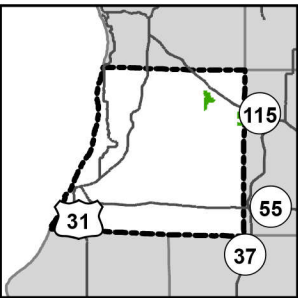


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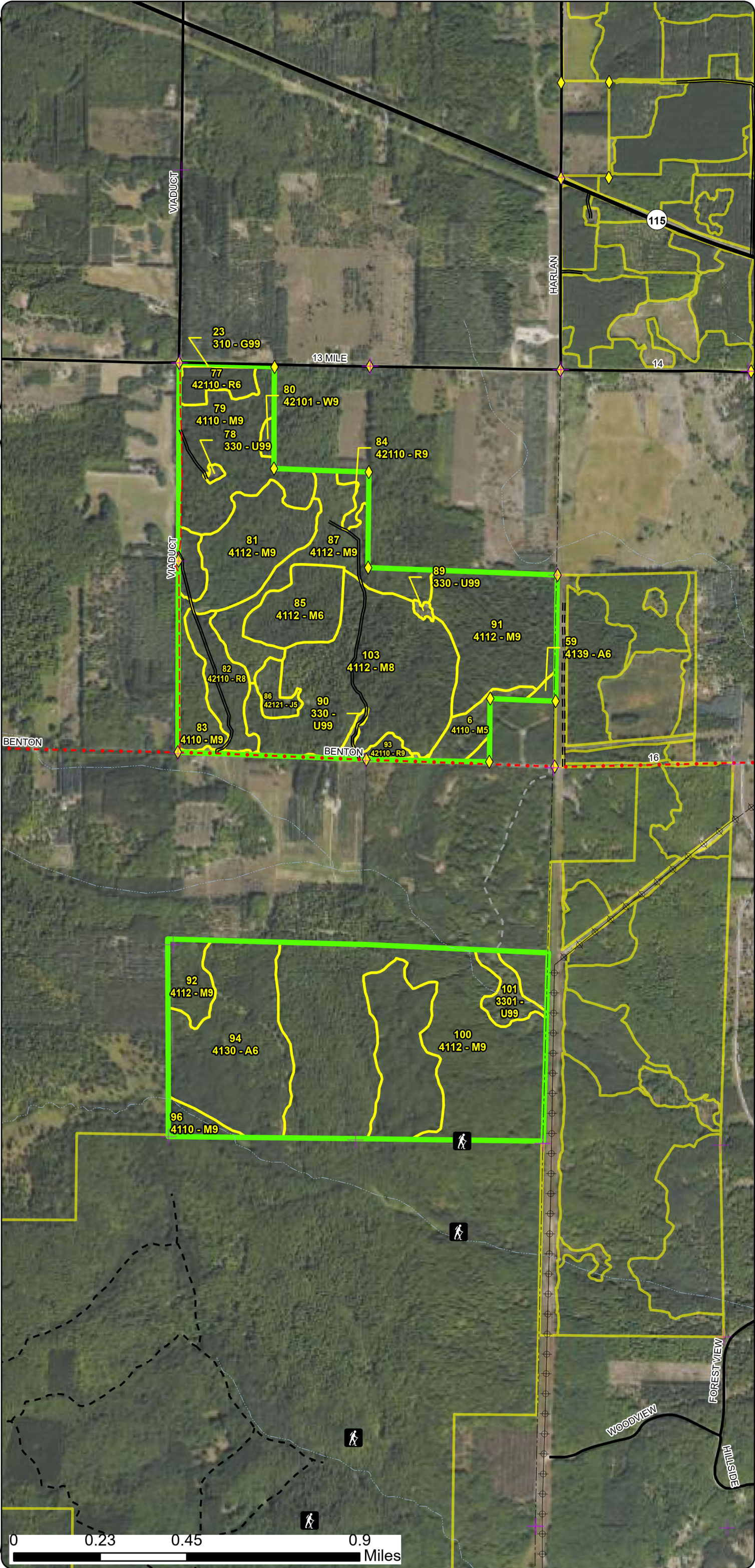


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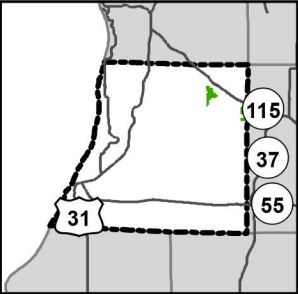


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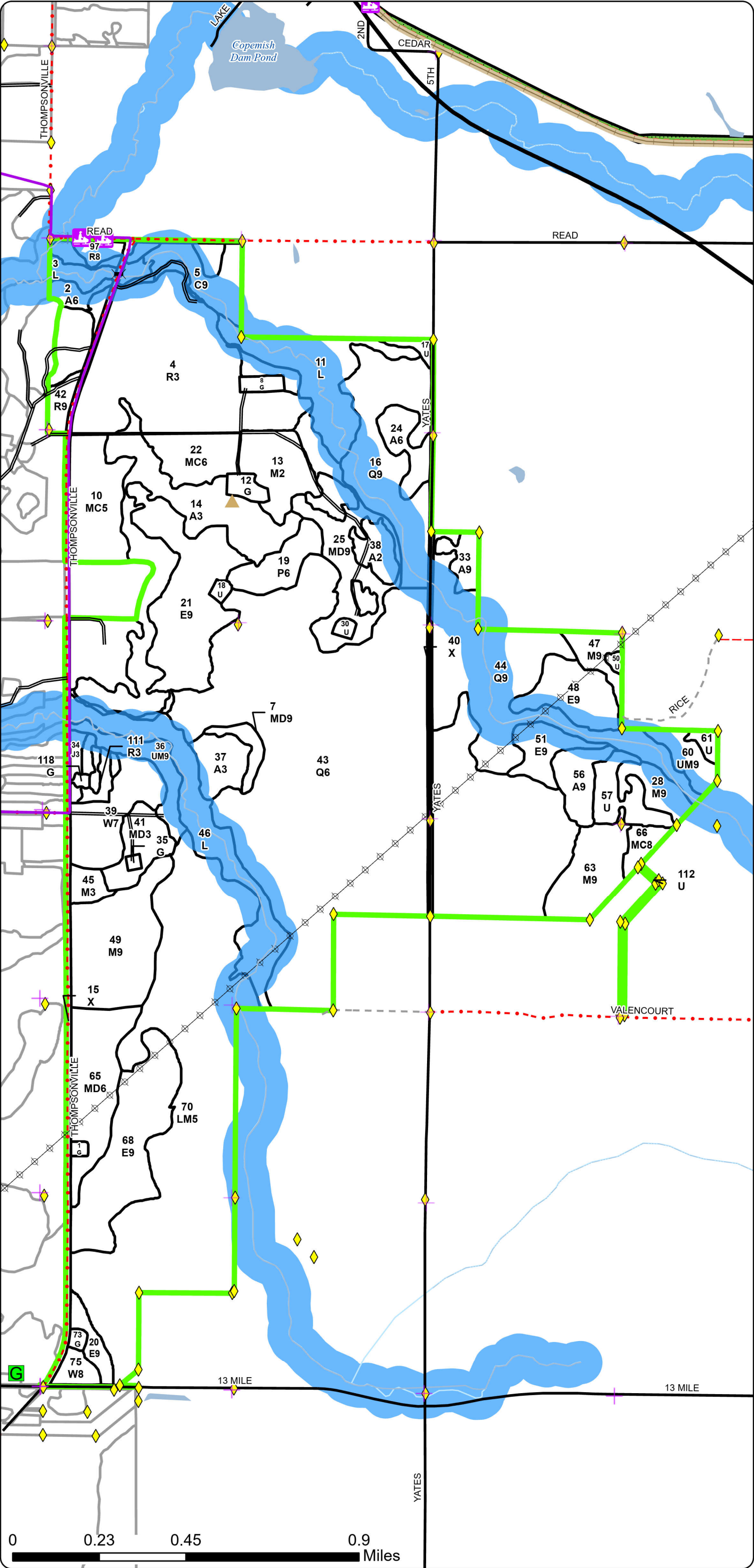


Special Conservation Areas  
& Site Conditions Map

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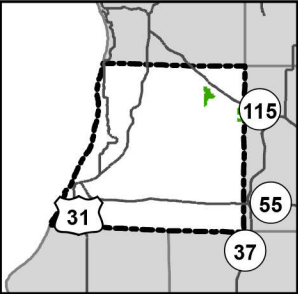


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- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Trail - Trail Corridor

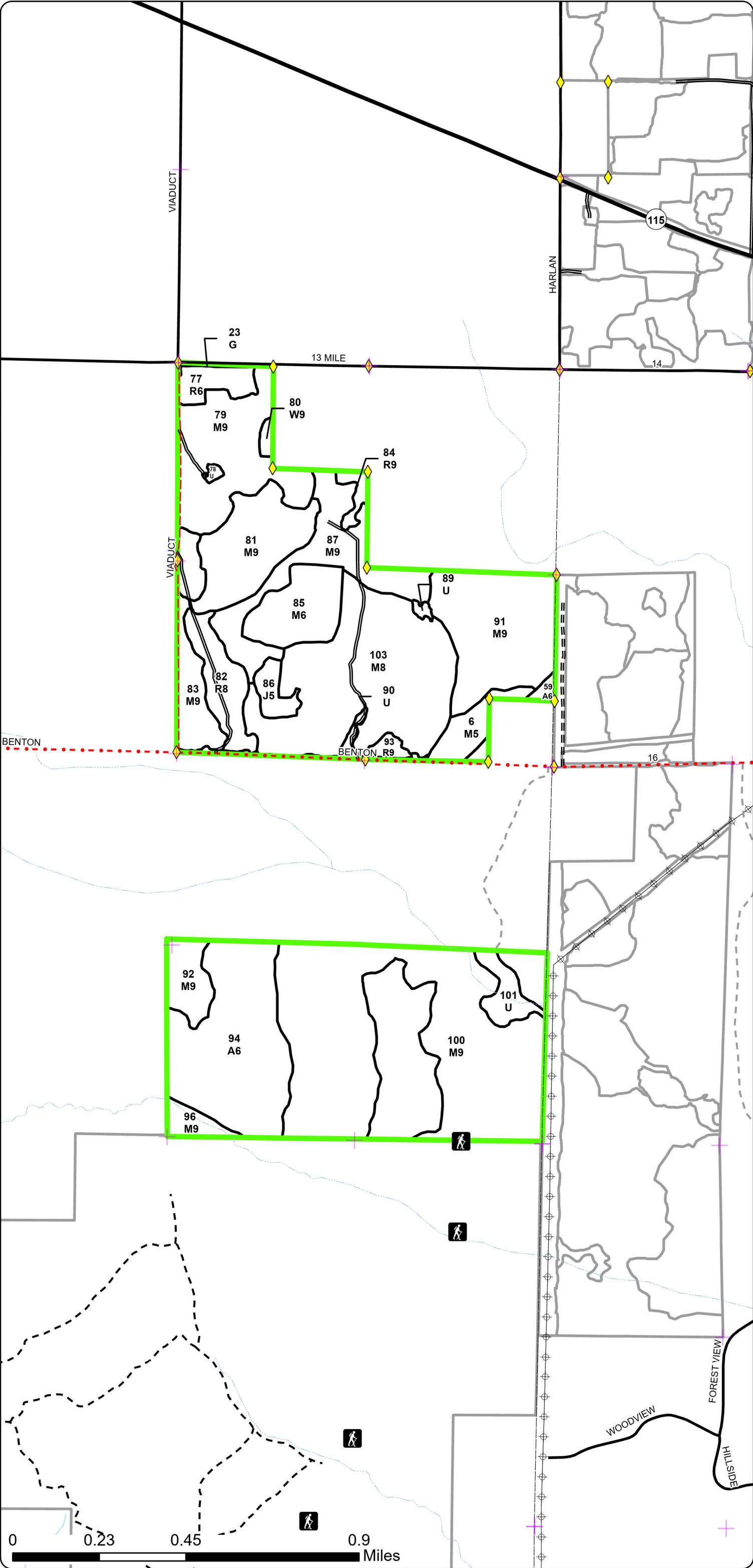


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# Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 37

Year of Entry 2027

Joe Ventimiglia: Examiner

## Age Class

	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	17	73	11	132	0	0	0	19	0	0	0	0	0	0	0	0	0	252
Cedar	0	0	0	0	0	0	0	0	0	0	17	0	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	398	77	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	188	9	483	219	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 - 156  
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	Overshoot 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
	Total	157	0	0	0	0	0	0	0	0	204

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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:**

<b>100</b>	<b>61037100-Cut</b>	71.2	4112 - Maple, Beech, Cherry Association	9	95	81-110	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Planting Record	No
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Prescription 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)

Next Step  
Treatments:

Acceptable Mix of red maple, cherry and aspen.  
Regen:

Other Retention for this stand in place outside of proposed treatment. (see site conditions layer) Only treating portion of larger stand. Verbal  
Comment: access has been granted from landowner to north but specifics will need to be negotiated by producer who buys sale. The last time this access was used was 1989.

Site Condition:

Proposed Start Date: 10/01/2026

<b>87</b>	<b>61037087-Cut</b>	42.3	4112 - Maple, Beech, Cherry Association	9	99	111-140	Harvest	Clearcut	4112 - Maple, Beech, Cherry Association	Planting Record	No
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Prescription 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  
Specs: future snags, no more then 10 trees in stand.

Next Step  
Treatments:

Acceptable mix of black cherry, maple , beech and some aspen.  
Regen:

Other 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  
Comment: success of 1970s final harvest in stand 85.

Site Condition:

Proposed Start Date: 10/01/2026

<b>84</b>	<b>61037084-Cut</b>	4.0	42110 - Planted Red Pine	9	65	111-140	Harvest	Clearcut	4112 - Maple, Beech, Cherry Association	Planting Record	No
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Prescription Final harvest no retention due to small size.  
Specs:

Next Step  
Treatments:

Acceptable Mixed black cherry, maple and beech.  
Regen:

Other 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  
Comment: good time to address this stand.

Site Condition:

Proposed Start Date: 10/01/2026

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>49 61037049-Cut</b>	39.1	4112 - Maple, Beech, Cherry Association	9	96	81-110	Harvest	Clearcut	4112 - Maple, Beech, Cherry Association	Planting Record	No
<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. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Red maple, cherry and beech. Some aspen well. <u>Regen:</u> <u>Other</u> Will need to be frozen or dry condition in summer. Protect pipeline as needed. May even need crane mats to cross pipeline. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>10 61037010-Opening</b>	47.3	42260 - Natural Pine, Mixed Deciduous	5	24	1-50	Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<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 for wildlife food and cover. <u>Specs:</u> Fertilize plantings and protect with wire cages or tubex. <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										

**Total Treatment** 203.9  
**Acreage Proposed:**

## Report 4 – Site Conditions



### Availability for Management

Total	Acres	Acres Avail	Acres	Dominant Site Conditions							
Acres	Available	With Condition	Not Available		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	Dominant Site 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
<b>Comments:</b> 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
<b>Comments:</b> Scattered Long term retention for stand 4.							
3	Available	5G: Research Study	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 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
<b>Comments:</b> LTR for stand 100 proposed harvest. This retention is large enough to represent retention for this YOЕ and future YOЕ harvests in stand 100.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	194	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	2F: Too steep	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	48	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

# 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
1	310 - Herbaceous Openland	Poletimber Well	1.1			Old Oil Pad																																												
2	4130 - Aspen	Poletimber Medium	7.7	36	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.																																											
<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>3</td><td></td><td>15</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>15</td><td></td></tr><tr><td>Black Cherry</td><td>8</td><td></td><td>14</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td></td><td>9</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>69</td><td>Seedling</td><td>8</td><td>36</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	3		15		White Pine	10		15		Black Cherry	8		14		Red Maple	10		9		Bigtooth Aspen	69	Seedling	8	36	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Balsam Fir</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	5 - 10 feet	5 - 10 feet	Red Pine	Low	5 - 10 feet	5 - 10 feet	Balsam Fir	Low	5 - 10 feet	5 - 10 feet
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3	6220 - Alder/Willow	Unspecifed	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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4	42110 - Planted Red Pine	Sapling Well	108.0	5	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.																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>10</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Pine</td><td>90</td><td>Log</td><td>1</td><td>5</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Jack Pine	10	Log	2		Red Pine	90	Log	1	5																																	
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5	6120 - Lowland Cedar	Poletimber Well	16.6	99	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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6	4110 - Sugar Maple Association	Sawtimber Medium	11.6	75	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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
7	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	5.3	75	81-110	N/A	Small strip if uncut timber from wildlife harvest to west.																																																				
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8	310 - Herbaceous Openland	Unspecifed	3.0				State Cleon 4-19																																																				
10	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	47.3	24	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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11	6220 - Alder/Willow	Unspecifed	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.																																																				
12	310 - Herbaceous Openland	Unspecifed	3.8				State Cleon well 1-19																																																				
13	4116 - Mixed N. Hardwood - Aspen	Sapling Well	20.3	17	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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14	4130 - Aspen	Sapling Well	61.3	11	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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Black Cherry	8	Log	1																																																																		
15	122 - Road/Parking Lot	Unspecifed	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	101	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.																																																														
<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>7</td><td></td><td>18</td><td></td></tr><tr><td>Balsam Fir</td><td>3</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Tamarack</td><td>2</td><td></td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>19</td><td></td><td>12</td><td></td></tr><tr><td>Northern White Cedar</td><td>15</td><td></td><td>10</td><td></td></tr><tr><td>Hemlock</td><td>35</td><td></td><td>14</td><td>101</td></tr><tr><td>Yellow Birch</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Quaking Aspen</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	7		18		Balsam Fir	3	Seedling	8		Tamarack	2		8		Red Maple	19		12		Northern White Cedar	15		10		Hemlock	35		14	101	Yellow Birch	10		12		Quaking Aspen	5	Seedling	8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Ash</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Balsam Fir</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Black Ash	Low	Variable	Variable	Red Maple	Low	Variable	Variable	Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
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17	330 - Low-Density Trees	Unspecified	2.4			No	Opening filling in with aspen, white pine, red pine, cherry and maple.																																																														
18	3202 - Autumn Olive/Honeysuckle	Unspecified	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.																																																														
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Autumn Olive</td><td>Full</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Spotted Knapweed</td><td>Low</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Mixed Grasses</td><td>Medium</td><td>Not Applicable</td><td>Not Applicable</td></tr></table>								Sub-Canopy Species	Density	Avg. Height	Size	Autumn Olive	Full	5 - 10 feet	5 - 10 feet	Spotted Knapweed	Low	Not Applicable	Not Applicable	Mixed Grasses	Medium	Not Applicable	Not Applicable																																														
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19	6112 - Lowland Aspen	Poletimber Well	14.2	45	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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
20	6113 - Lowland Maple	Poletimber Well	6.6	55		N/A	Transition zone of lowland maple.																																								
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21	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	52.7	60	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 Poor	17.3	28	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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Black Cherry	35		9																																												
23	310 - Herbaceous Openland	Poletimber Well	0.9			No	Road and Road ROW																																								
24	4130 - Aspen	Sapling Medium	11.2	27	Unspecified	N/A	Stand was final harvested in 1997. All cedar and hemlock left. Came back well to aspen and some hardwood.																																								
<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>3</td><td>Pole</td><td>3</td><td></td></tr><tr><td>Red Maple</td><td>6</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>64</td><td>Sapling</td><td>5</td><td>27</td></tr><tr><td>Beech</td><td>3</td><td>Log</td><td>3</td><td></td></tr><tr><td>Northern White Cedar</td><td>2</td><td></td><td>9</td><td></td></tr><tr><td>White Pine</td><td>2</td><td>Log</td><td>2</td><td></td></tr><tr><td>Black Cherry</td><td>20</td><td>Pole</td><td>4</td><td></td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Red Pine	3	Pole	3		Red Maple	6	Pole	4		Bigtooth Aspen	64	Sapling	5	27	Beech	3	Log	3		Northern White Cedar	2		9		White Pine	2	Log	2		Black Cherry	20	Pole	4		
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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	Poletimber Well	32.7	55	51-80	N/A	Stand was final harvested in 1969 with conifer left at that time.																																															
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28	4110 - Sugar Maple Association	Poletimber Well	10.0	99	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.																																															
<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>10</td><td></td><td>10</td><td></td></tr><tr><td>Basswood</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Sugar Maple</td><td>75</td><td></td><td>11</td><td>99</td></tr><tr><td>Beech</td><td>10</td><td></td><td>10</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	10		10		Basswood	5		12		Sugar Maple	75		11	99	Beech	10		10		<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><tr><td>Ironwood</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	5 - 10 feet	5 - 10 feet	Ironwood	Low	10 - 20 feet	10 - 20 feet												
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30	330 - Low-Density Trees	Unspecifed	1.5			No	Old well site filling in.																																															
33	4130 - Aspen	Sawtimber Well	7.0	74	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	27	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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35	310 - Herbaceous Openland	Unspecified	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																																									
36	4311 - Pine, Aspen Mix	Poletimber Well	13.0	66	51-80	N/A	Mixed stand along edge of creek.																																									
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37	4139 - Aspen, Mixed Deciduous	Sapling Well	12.1	15	Immature	N/A	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																																									
<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>50</td><td>Log</td><td>2</td><td>15</td></tr><tr><td>Bigtooth Aspen</td><td>45</td><td>Log</td><td>2</td><td>15</td></tr><tr><td>Black Cherry</td><td>5</td><td>Log</td><td>2</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Red Maple	50	Log	2	15	Bigtooth Aspen	45	Log	2	15	Black Cherry	5	Log	2																										
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38	4130 - Aspen	Unspecifed	16.9	6		N/A	Stand was final harvested in 2018. Scattered conifer left. Came back patchy to mixed aspen and hardwoods.																																									
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Black Cherry	4	Log	1																																													
Quaking Aspen	80	Log	1	6																																												
39	42100 - Planted White Pine	Sawtimber Poor	24.5	73	1-50	N/A	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.																																									
<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>95</td><td></td><td>14</td><td>73</td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>14</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	White Pine	95		14	73	Red Pine	5		14		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>High</td><td>&gt;20 feet</td><td>&gt;20 feet</td></tr><tr><td>Quaking Aspen</td><td>Trace</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Cherry</td><td>Medium</td><td>&gt;20 feet</td><td>&gt;20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	High	>20 feet	>20 feet	Quaking Aspen	Trace	Variable	Variable	Black Cherry	Medium	>20 feet	>20 feet										
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40	122 - Road/Parking Lot	Unspecified	9.9			No																																										
41	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	13.6	16	Immature	N/A	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.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																																																																																																																																																																																																																																																																																																														
42	42110 - Planted Red Pine	Sapling Well	13.3	75	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.																																																																																																																																																																																																																																																																																																																																																																														
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43	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	386.3	104	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)																																																																																																																																																																																																																																																																																																																																																																														
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44	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	77.7	101	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																																																																																																																																																																																																																																																																																																																																																																														
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45	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	5.4	16	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.																																																																																																																																																																																																																																																																																																																																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
46	6229 - Mixed Lowland Shrub	Unspecified	41.2			No	Lots of sedges. Some dead standing timber. Fern and mixed forbs.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Cattail spp.	Trace	Not Applicable	Not Applicable	
								Northern White Cedar	Trace	Variable	Variable	
								Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
								Sedges	High	Not Applicable	Not Applicable	
47	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.9	91	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					
								Canopy Species	% Cover	Size Class	DBH	Age
								Basswood	5		12	
								Sugar Maple	73		12	91
								Red Maple	10		12	
								Bigtooth Aspen	12		15	71
48	6113 - Lowland Maple	Sawtimber Well	20.5	96	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.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	5		15	
								Hemlock	2		13	
								Yellow Birch	5		9	
								Quaking Aspen	10		12	
Red Maple	78		13	96								
49	4112 - Maple, Beech, Cherry Association	Poletimber Well	44.2	96	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.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	1		8	
								Hemlock	4		8	
								Red Maple	79		12	96
								White Pine	5		14	
Black Cherry	3		15									
Yellow Birch	3		10									
Quaking Aspen	5		14									
50	330 - Low-Density Trees	Unspecified	1.2			No						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
51	6113 - Lowland Maple		Sawtimber Well	12.1	101	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		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	White Pine	6		15		Balsam Fir	High		5 - 10 feet	5 - 10 feet
	Northern White Cedar	2		13						
	Hemlock	2		12						
	Yellow Birch	5		12						
	Quaking Aspen	15		14						
	Red Maple	70		15	101					
56	4130 - Aspen		Sawtimber Well	12.2	79	111-140	N/A	Overmature Aspen still holding together. Some red maple and white pine mixed. Stand slopes down to lowland on west line.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	White Pine	5		16		Red Maple	Medium		Variable	Variable
	Black Cherry	10		13		Beech	Low		5 - 10 feet	5 - 10 feet
	Sugar Maple	3		12		Hemlock	Low		Variable	Variable
	Red Maple	20		14		White Pine	Trace		10 - 20 feet	10 - 20 feet
	Bigtooth Aspen	62		15	79					
57	330 - Low-Density Trees		Unspecifed	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.		
59	4139 - Aspen, Mixed Deciduous		Sapling Well	3.4	34	Unspecified	N/A	Stand was final harvested in 1991. Came back to aspen and mixed hardwood.		
	Canopy Species	% Cover	Size Class	DBH	Age					
	Black Cherry	30	Sapling	6						
	Quaking Aspen	30	Sapling	6	34					
	Red Maple	20	Sapling	6						
	Bigtooth Aspen	20	Sapling	6						
60	4319 - Mixed Upland Forest		Poletimber Well	9.2	81	81-110	N/A	Stand slopes down to creek, very difficult foot access for public.		
	Canopy Species	% Cover	Size Class	DBH	Age					
	White Pine	50		16	81					
	Red Maple	35		10						
	Quaking Aspen	15		11						
61	330 - Low-Density Trees		Unspecifed	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	106	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 fades into adjacent lowland. Vernal pond in SE corner.																																																									
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65	4199 - Other Mixed Upland Deciduous	Poletimber Well	32.9	55	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.																																																									
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66	42130 - Planted Scotch Pine	Poletimber Well	5.9	62	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.																																																									
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68	6113 - Lowland Maple	Poletimber Well	47.8	95	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...																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																
70	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	193.8	66	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.																																																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Yellow Birch</td><td>6</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Quaking Aspen</td><td>3</td><td></td><td>12</td><td></td></tr><tr><td>Black Ash</td><td>2</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Red Maple</td><td>40</td><td></td><td>8</td><td>66</td></tr><tr><td>Paper Birch</td><td>2</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>8</td><td></td></tr><tr><td>Silver Maple</td><td>2</td><td></td><td>11</td><td></td></tr><tr><td>Northern White Cedar</td><td>15</td><td></td><td>8</td><td></td></tr><tr><td>Hemlock</td><td>15</td><td></td><td>8</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Balsam Fir	5	Seedling	7		Yellow Birch	6	Seedling	8		Quaking Aspen	3		12		Black Ash	2	Sapling	5		Red Maple	40		8	66	Paper Birch	2	Seedling	8		White Pine	10		8		Silver Maple	2		11		Northern White Cedar	15		8		Hemlock	15		8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Ash</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Northern White Cedar</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Hemlock</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Ash	Medium	Variable	Variable	White Pine	Low	Variable	Variable	Northern White Cedar	Low	Variable	Variable	Hemlock	Low	Variable	Variable	Red Maple	Medium	Variable	Variable	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
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73	3104 - Degraded	Unspecifed	1.4				Schmude Oil Inc. Cleon No. 1-31 Oil well head. Not "Degraded", but "Low Intensity Urban".																																																																																
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75	42200 - Natural White Pine	Sawtimber Well	5.3	140	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.																																																																																
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77	42110 - Planted Red Pine	Poletimber Well	10.2	63	111-140	N/A	Stand was planted in 1962. Stand was third row thinned in 1998.																																																																																
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78	330 - Low-Density Trees	Unspecifed	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	105	51-80	N/A	Stand was thinned in 1999. Stand was thinned again in 2018.																																																				
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80	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	2.0	63	81-110	N/A	Stand was planted in 1962. Stand was thinned in 2017. Small strip of planted white pine with scattered hardwood.																																																				
<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>80</td><td></td><td>12</td><td>63</td></tr><tr><td>Black Cherry</td><td>10</td><td></td><td>20</td><td></td></tr><tr><td>Sugar Maple</td><td>10</td><td></td><td>8</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	80		12	63	Black Cherry	10		20		Sugar Maple	10		8		<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>&lt; 5 feet</td><td>&lt; 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Medium	< 5 feet	< 5 feet																												
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81	4112 - Maple, Beech, Cherry Association	Sawtimber Well	39.0	98	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.																																																				
<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>20</td><td></td><td>15</td><td></td></tr><tr><td>Sugar Maple</td><td>15</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>35</td><td></td><td>16</td><td>98</td></tr><tr><td>White Pine</td><td>15</td><td></td><td>12</td><td>63</td></tr><tr><td>Black Cherry</td><td>15</td><td></td><td>16</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Beech	20		15		Sugar Maple	15		12		Red Maple	35		16	98	White Pine	15		12	63	Black Cherry	15		16		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Beech</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	Variable	Variable	Beech	High	Variable	Variable	White Pine	Low	Variable	Variable	Black Cherry	Low	Variable	Variable						
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82	42110 - Planted Red Pine	Sawtimber Medium	26.9	63	1-50	N/A	Stand was planted in 1962. Stand was third row thinned in 1998.																																																				
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Canopy Species	% Cover	Size Class	DBH	Age																																																							
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Beech	Medium	Variable	Variable																																																								
83	4110 - Sugar Maple Association	Sawtimber Well	16.9	95	81-110	N/A	Stand was thinned in 2009. Decent quality hardwood on ridge. Steep slope on east line. Mostly beech and ironwood in understory.																																																				
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84	42110 - Planted Red Pine	Poletimber Well	4.0	65	111-140	N/A	Stand was third row thinned in 1998. Stand was second thinned in 2007. Very dense beech understory.																																																				
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85	4112 - Maple, Beech, Cherry Association	Poletimber Well	26.0	51	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.																																																
<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>36</td><td>Seedling</td><td>9</td><td>51</td></tr><tr><td>Beech</td><td>6</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Ironwood</td><td>5</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Sugar Maple</td><td>10</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>40</td><td>Seedling</td><td>9</td><td>51</td></tr><tr><td>Bigtooth Aspen</td><td>3</td><td></td><td>11</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	36	Seedling	9	51	Beech	6	Seedling	8		Ironwood	5	Sapling	5		Sugar Maple	10	Seedling	8		Red Maple	40	Seedling	9	51	Bigtooth Aspen	3		11		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Beech</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	Variable	Variable	Beech	Medium	Variable	Variable	Came back well to mix of maple, cherry, beech and a few aspen.		
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Beech	Medium	Variable	Variable																																																				
86	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Medium	7.0	63	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																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>80</td><td>Seedling</td><td>7</td><td>63</td></tr><tr><td>Black Cherry</td><td>5</td><td>Sapling</td><td>7</td><td></td></tr><tr><td>Sugar Maple</td><td>5</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Seedling</td><td>7</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	80	Seedling	7	63	Black Cherry	5	Sapling	7		Sugar Maple	5	Sapling	5		Red Maple	10	Seedling	7		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Beech</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Sugar Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Cherry</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Beech	High	Variable	Variable	Sugar Maple	Low	Variable	Variable	Black Cherry	Medium	Variable	Variable									
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87	4112 - Maple, Beech, Cherry Association	Sawtimber Well	42.3	99	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	Unspecified	1.1			No	Little opening filling hardwood.																																																
90	330 - Low-Density Trees	Unspecified	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	95	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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
92	4112 - Maple, Beech, Cherry Association	Poletimber Well	13.9	97	81-110	N/A	Slightly more sugar maple then larger stand to east but again low quality with red maple dominate.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	5		13		Sugar Maple	Low		Variable	Variable
Sugar Maple	20		9		Ironwood	Low		5 - 10 feet	5 - 10 feet
Red Maple	75		13	97	Beech	Low		Variable	Variable
93	42110 - Planted Red Pine	Poletimber Well	3.3	62	111-140	N/A	Stand was planted in 1962. Stand was third row thinned in 1998. Stand was second thinned in 2007.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	2		20		Beech	Medium		< 5 feet	< 5 feet
Black Cherry	10		18		Ironwood	Low		Variable	Variable
Red Pine	88		11	62					
94	4130 - Aspen	Sapling Well	120.7	36	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Tamarack	1	Seedling	6		Serviceberry (Juneberry)	Low		10 - 20 feet	10 - 20 feet
Sugar Maple	4	Sapling	5		Ironwood	Low		Variable	Variable
Red Maple	11	Sapling	5						
Bigtooth Aspen	30	Seedling	7						
Black Cherry	20	Sapling	6						
Quaking Aspen	30	Seedling	7	36					
Ironwood	4	Seedling	6						
96	4110 - Sugar Maple Association	Sawtimber Well	7.0	110	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	30		18		Black Cherry	Low		Variable	Variable
American Elm	2		13		Ironwood	Low		Variable	Variable
Sugar Maple	63		14	110					
Red Maple	5		14						
97	42110 - Planted Red Pine	Sawtimber Medium	10.8	75	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)		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	2		12		White Pine	Medium		5 - 10 feet	5 - 10 feet
Red Pine	98		15	75	Beech	Low		5 - 10 feet	5 - 10 feet
					Red Pine	Medium		5 - 10 feet	5 - 10 feet
					Red Maple	Low	Variable	Variable	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
100	4112 - Maple, Beech, Cherry Association	Poletimber Well	164.4	95	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)
<div>Canopy Species% CoverSize ClassDBH Age</div>		<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>					
<div>Black Cherry111295</div>		<div>Black CherryLowVariableVariable</div>					
<div>Sugar Maple513</div>		<div>Sugar MapleTraceVariableVariable</div>					
<div>Red Maple6013</div>		<div>IronwoodMediumVariableVariable</div>					
<div>Bigtooth Aspen128</div>		<div>BeechMediumVariableVariable</div>					
<div>Beech1013</div>							
<div>Red Oak213</div>							
101	3301 - Low Density Deciduous Trees	Unspecified	10.0			No	Mixed low density trees in opening.
103	4112 - Maple, Beech, Cherry Association	Poletimber Medium	103.4	75	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
<div>Canopy Species% CoverSize ClassDBH Age</div>		<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>					
<div>Black Cherry1511</div>		<div>Sugar MapleTraceVariableVariable</div>					
<div>Sugar Maple2511</div>		<div>IronwoodMedium10 - 20 feet10 - 20 feet</div>					
<div>Red Maple601275</div>		<div>Black CherryMediumVariableVariable</div>					
		<div>BeechHigh10 - 20 feet10 - 20 feet</div>					
111	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	5.4	16	Immature	N/A	Stand was final harvested in 2008 and planted to red pine in 2009.
<div>Canopy Species% CoverSize ClassDBH Age</div>		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.					
<div>Black Cherry10Log3</div>							
<div>Red Pine70Log216</div>							
<div>Red Maple5Log3</div>							
112	330 - Low-Density Trees	Unspecified	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	Unspecified	0.9				Old well site, was not planted through when adjacent stands/strips were treated/planted.