



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61015

Entry Year 2024

Acreage: 1,191

County Benzie

Management Area: Benzie Outwash

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**Stand Examiner:** Tim Webb

### Legal Description:

T26N - R14W - Sections 22-24, 26, 31-33, 35-36

### Identified Planning Goals:

This compartment is part of the Benzie Outwash Management Area (MA). Vegetation management in this MA will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character and threatened, endangered and special concern species; and provide for forest-based recreational uses and Native American non-commercial uses of forest products. Timber management for the next 10 years includes continued improvement of the age-class distribution of aspen and red pine stands. Northern hardwoods management includes continued selective harvesting of northern hardwoods to achieve an uneven age-class structure and improve timber quality. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests.

There are several conifer plantations of various species (predominantly red pine) throughout the compartment which should be maintained with periodic thinnings or considered for final harvest and regeneration. White spruce and white pine plantations, some including mixed hardwoods, also provide habitat diversity.

Hardwoods in the compartment are mostly low to medium timber quality. Periodic selection harvests can be used to maintain these stands in an uneven-aged condition. Several stands having an overstory component of low-quality mature aspen and a vigorous mixed-hardwood understory should be allowed to succeed to hardwoods, letting the aspen die out naturally.

Forest openings on old homesteads and fields should be maintained for wildlife habitat diversity. Those with Scotch pine or black locust encroachment should be treated to remove these exotic species when possible.

Lowlands along the Platte River and Carter Creek include mixed stands of cedar, hemlock, yellow birch, and red maple. These stands should be left intact to provide important winter cover for deer and habitat for numerous other species, as well as shading along these water bodies to maintain cold water temperatures.

### Soil and topography:

Most of the compartment is level. Steeper slopes are associated with the valleys of Carter Creek and Platte River. Soils are predominantly Nessen and Kaleva sands, which are well drained to excessively drained. Some Dair-Adrian muck soils occur in bottomlands.

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

State ownership within this compartment is quite fragmented, with individual blocks ranging from 20 to 360 acres. These blocks are scattered within a large area of highly subdivided private lands, mostly rural residential lots and recreational properties on old fields and fragmented forest patches. This compartment abuts large areas of predominantly state land to the south and east.

### Unique Natural Features:

Carter Creek and the Platte River flow through the compartment and have some relatively old timber stands adjacent.

### Archeological, Historical, and Cultural Features:

There is evidence of old homesteads in the southwest part of the compartment. An old, abandoned rail grade passes through state lands in section 24 alongside Carter Creek. This grade was associated with the former Carter's Siding town site and Desmond Chemical Company. The former Ann Arbor rail grade in the southwest part of the compartment now serves as the Betsie Valley Trail.

### Special Management Designations or Considerations:

A 1997 proposed old-growth area covered state lands in section 22 west of the Platte River State Forest Campground. Several factors contribute to designation of the entire 120 acre block in sections 22 and 23 as a Special Conservation Area. These values include concentrated recreation, riparian habitat, deer winter cover and well-developed mature forest

habitat. Incidentally, much of this area is inoperable for commercial logging. Active management should be limited to practices that enhance the values listed above, e.g. hazard tree removal, browse cuts, invasive species control, improving aesthetics, etc.

### **Watershed and Fisheries Considerations:**

### **Wildlife Habitat Considerations:**

State lands in this compartment fall within a broad flat outwash plain, characterized by flat terrain and well drained sandy soils. Historically, periodic large-scale wildfires were the major driving force for cover type changes. Today, the fragmented ownership and history of land use has left a varied array of habitats in State ownership. Thinning of pine and spruce plantations should promote some within-stand age and species diversity which will benefit wildlife. Future management of the several pine stands here should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Deciduous species should be encouraged within conifer plantations for diversity. Regenerating some aspen stands will create early successional forest cover, consistent with natural fire dynamics, if timber sales incorporate leave trees (particularly conifers and beech), snags, and coarse woody debris. These practices will benefit pine warbler, red squirrel, deer, ruffed grouse, hog-nosed snake, broad-winged hawk, and other species native to the diverse forests of the outwash plains. Others stands should be maintained in or allowed to succeed to hardwood types. Some maintenance of existing openings is also desirable. Maintenance of natural white pine will help retain an important conifer component in the landscape.

Parcels in the sections 22, 23, and 24 mostly lie northeast of water courses and a moraine landscape, both of which have afforded some protection from wildfires. Consequently, these parcels are best managed for later successional types and important riparian cover. Any harvests in this part of the compartment should be small and retain lots of residuals, mimicking blowdown.

### **Mineral Resource and Development Concerns and/or Restrictions**

The nearest active sand/gravel pit is just over one mile from the compartment. Most of the active aggregate mining in this area is on the upland moraine deposits to the northwest, but there is some good potential for sand and gravel from the outwash deposits within the compartment. There is good potential for natural gas production from the Antrim Shale in this area, and a number of wells have been completed in the area. However, the wells were awaiting pipeline infrastructure to go into production, and due to the decline in gas prices in recent years, these wells were deemed uneconomical and pipelines were never constructed. The wells were shut in and have since been orphaned. If gas prices were to rise significantly, it is possible these wells could become economical again. There is no other known potential for oil & gas beneath the compartment. There is no known metallic mineral potential in this part of the state.

### **Vehicle Access:**

Access is sufficient throughout the compartment, except that the state land south of the Platte River in sections 22 & 23 and a land-locked 40 acre parcel in section 35 are only accessible by vehicle via private land.

### **Survey Needs:**

No known survey needs.

### **Recreational Facilities and Opportunities:**

The Platte River Snowmobile Trail runs along Aylsworth Road on the south edge of sections 35 and 36. Platte River State Forest Campground is within the compartment. The Platte River is popular for fishing, canoeing, and kayaking.

### **Fire Protection:**

Wildfire protection will be directed from the Traverse City Field Office. This compartment is in a historically low fire-occurrence area with good road access.

### **Additional Compartment Information:**

The isolated 19 acre parcel in section 26 and the landlocked 40 acre parcel in section 35 should be considered for disposal.

**The following reports from the Inventory are attached:**

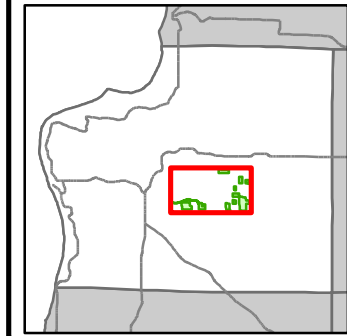
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

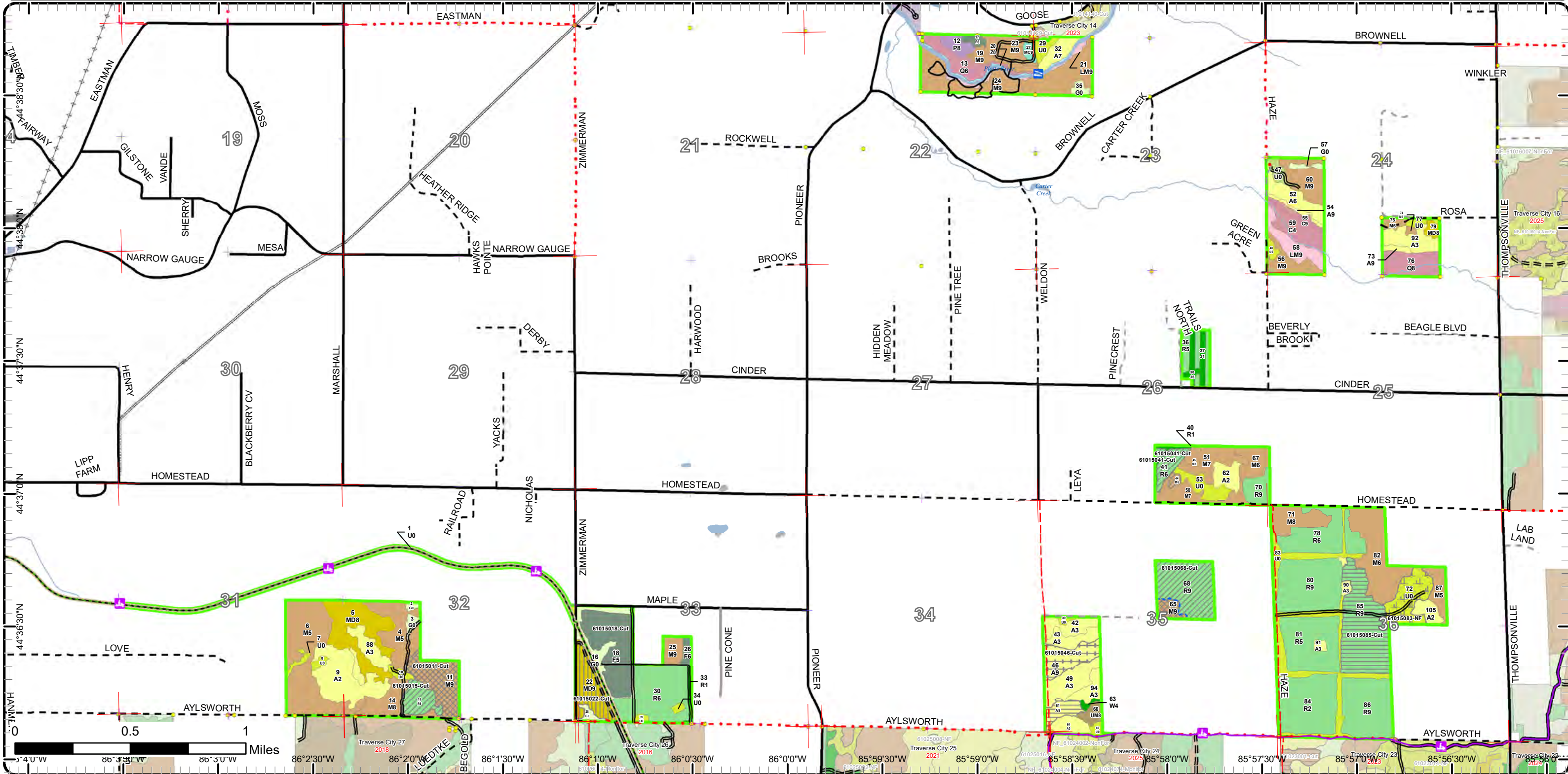
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 15  
 T26N, R14W, Sec. 22-24, 26, 31-33, 35, 36  
 County: Benzie  
 Unit: Traverse City  
 Mgmt Area: Benzie Outwash  
 YOE: 2024  
 Acres: 1191 GIS Calculated  
 Examiner: Tim Webb  
 Map Revised: 10/18/2022  
 Map Phase: Post Review

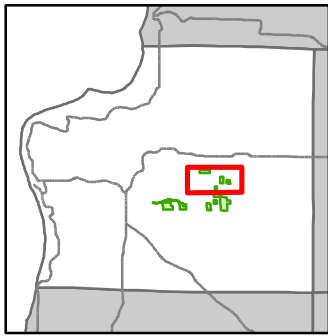


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hiking Trails
- - - Designated Bicycle Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Designated Rail Trail
- Boating Access Site
- ▲ Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water

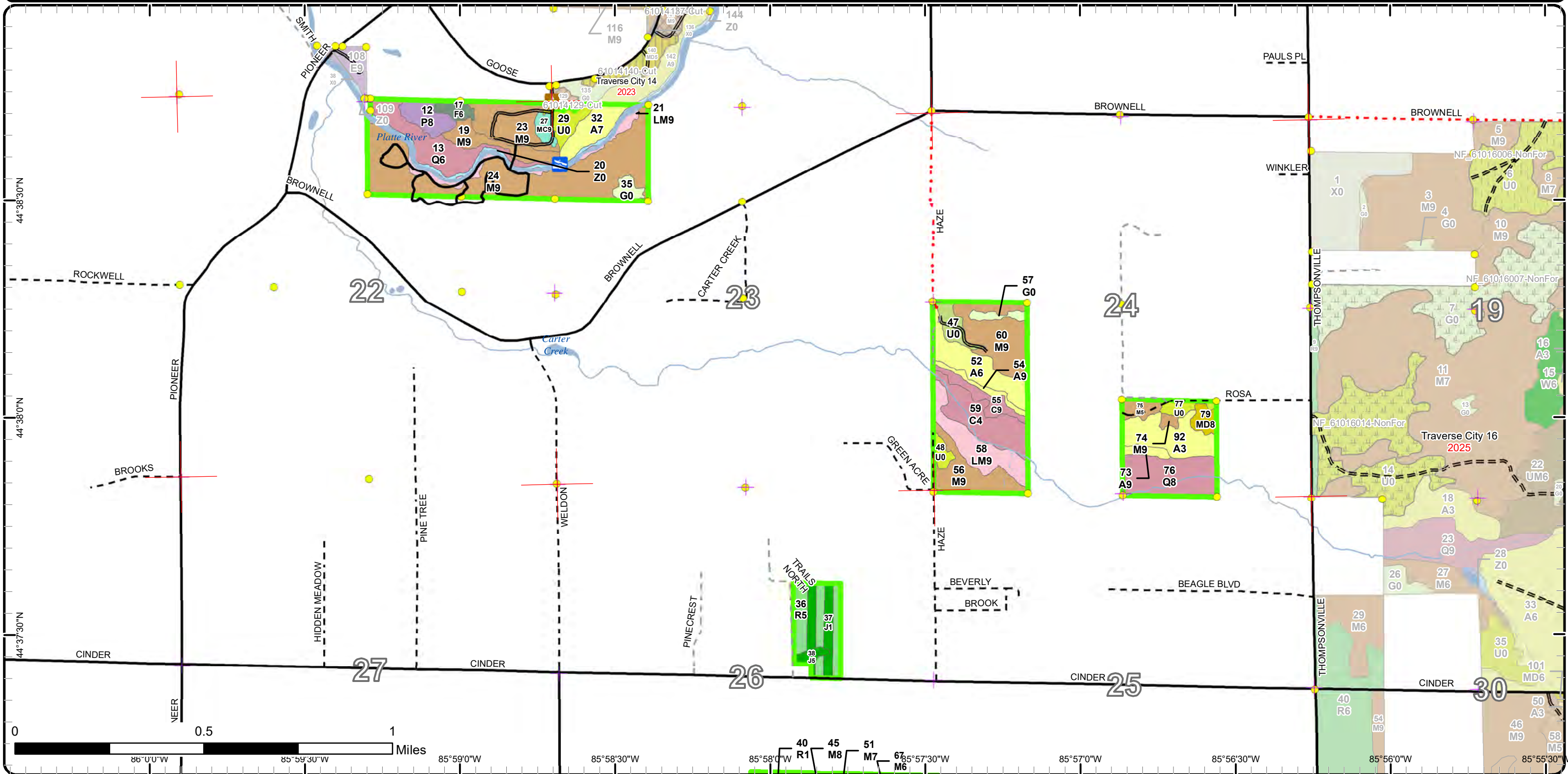


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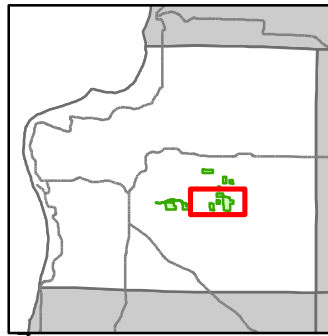
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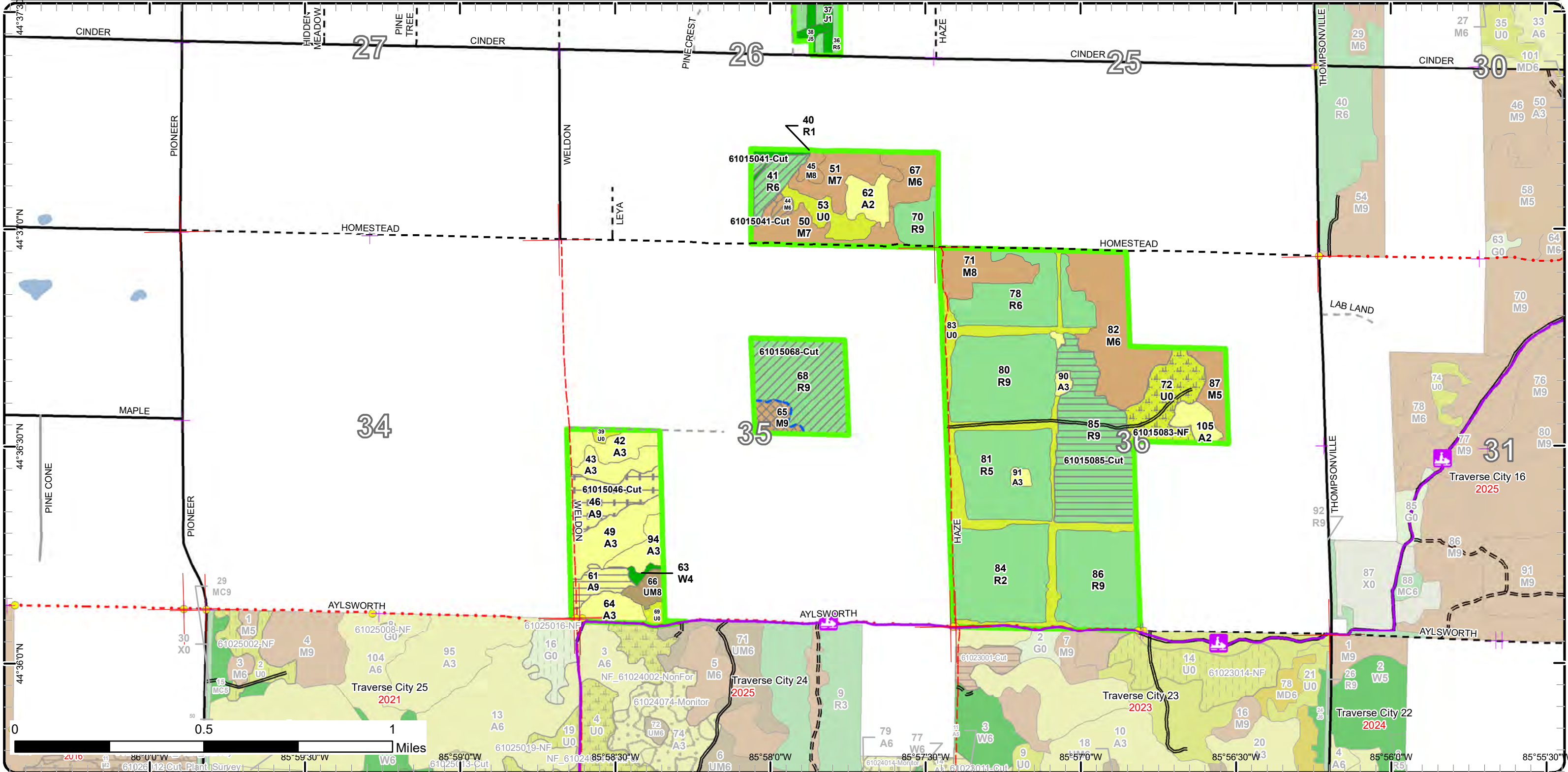
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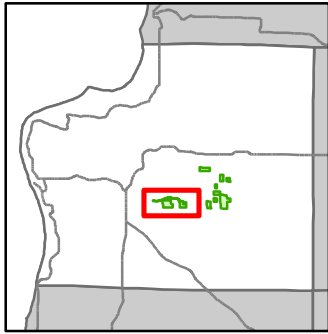
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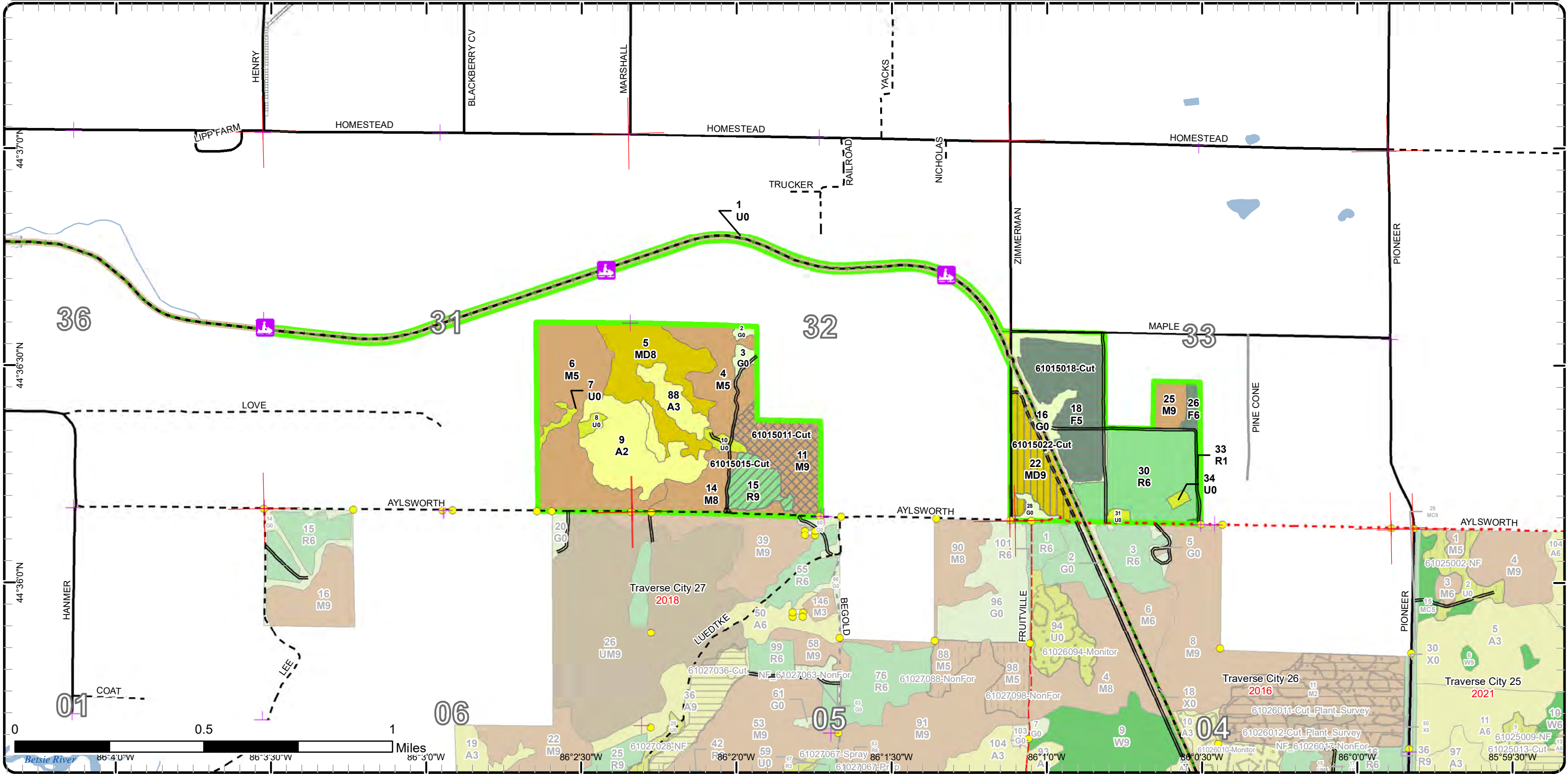
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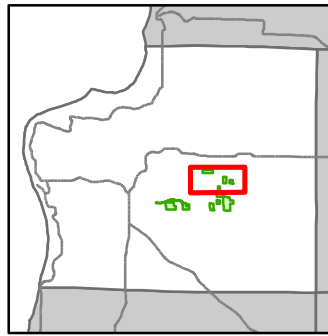


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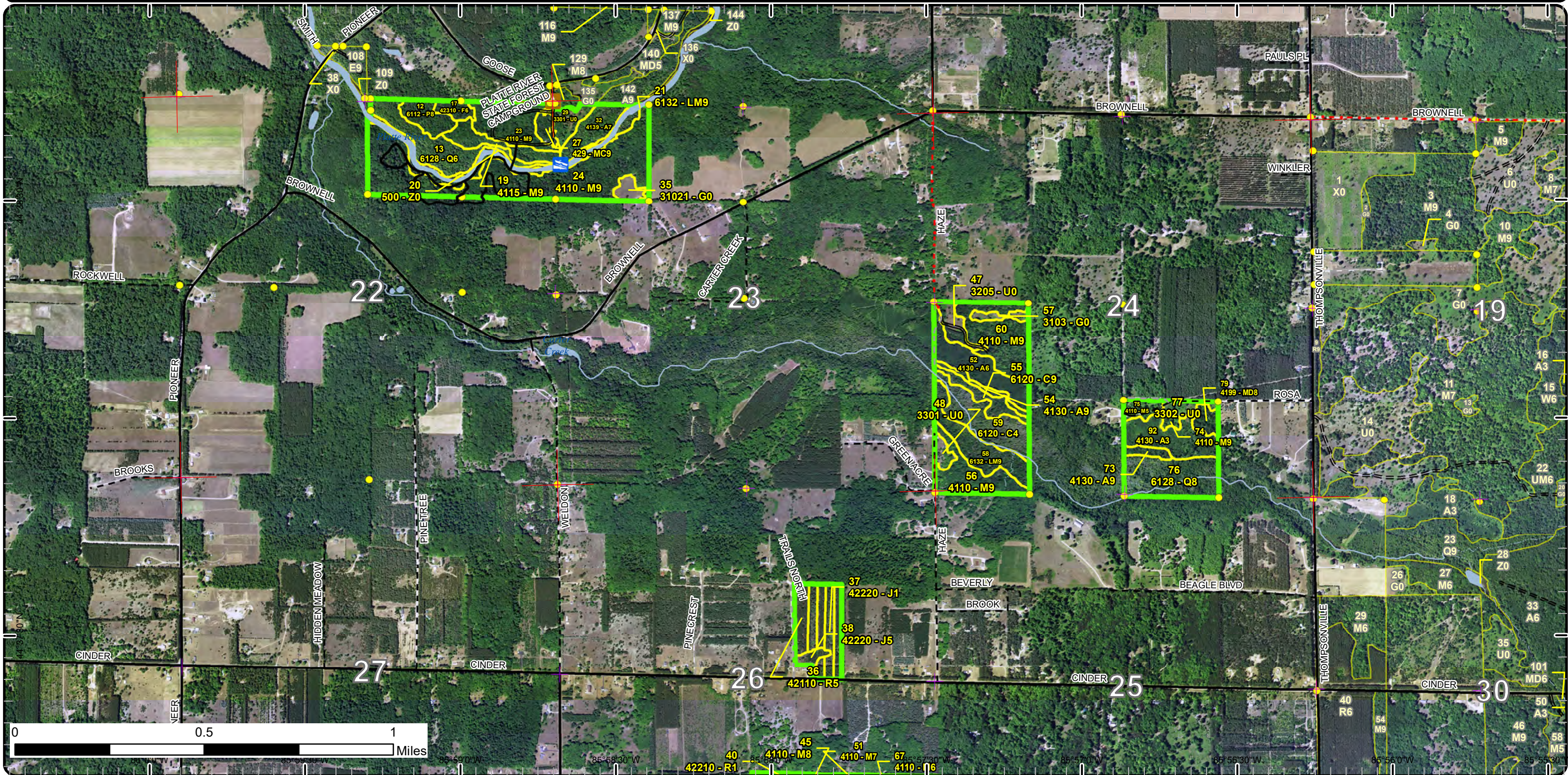


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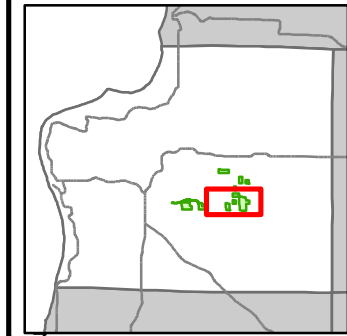
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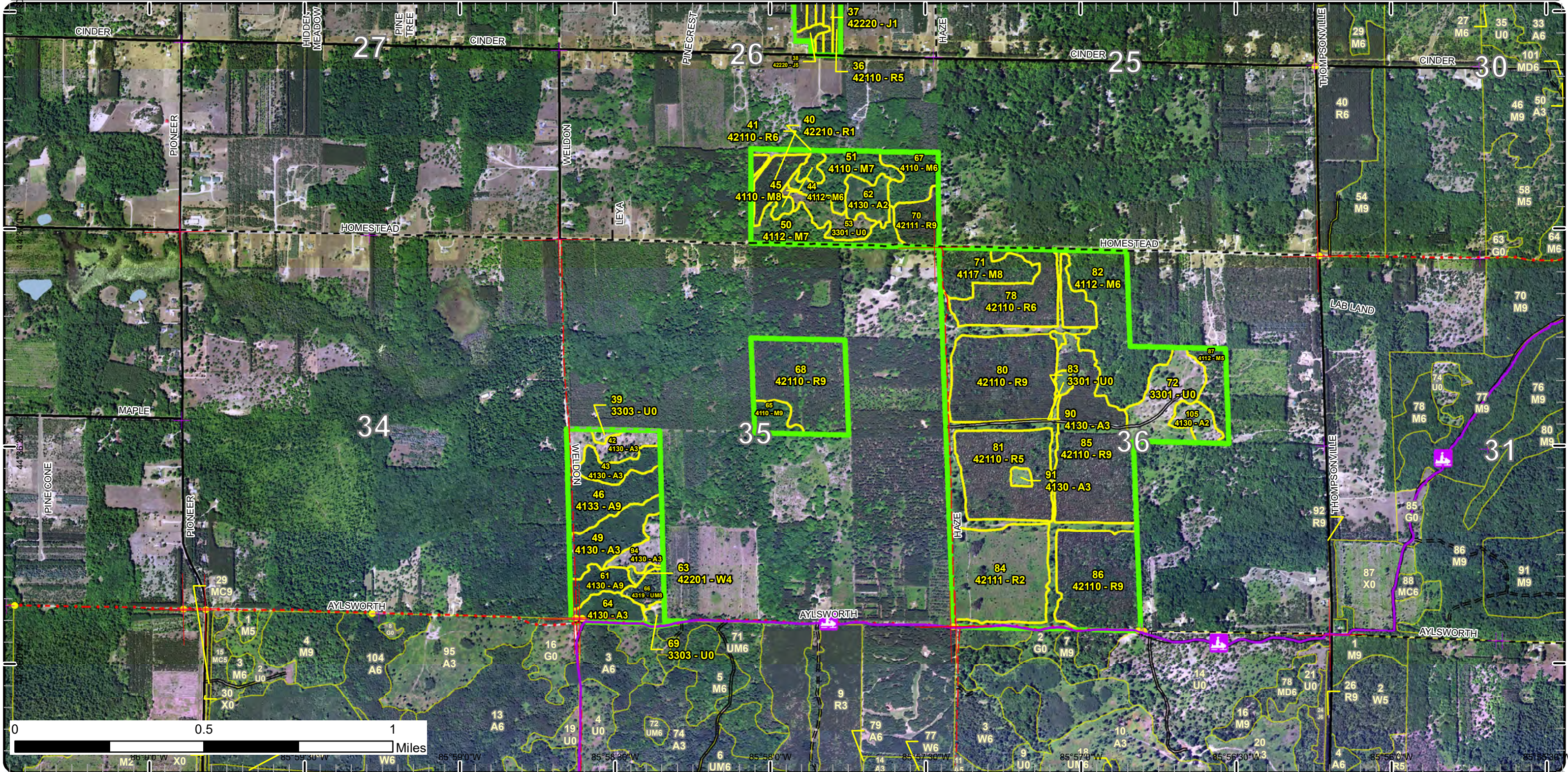


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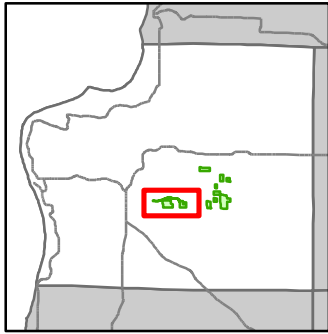


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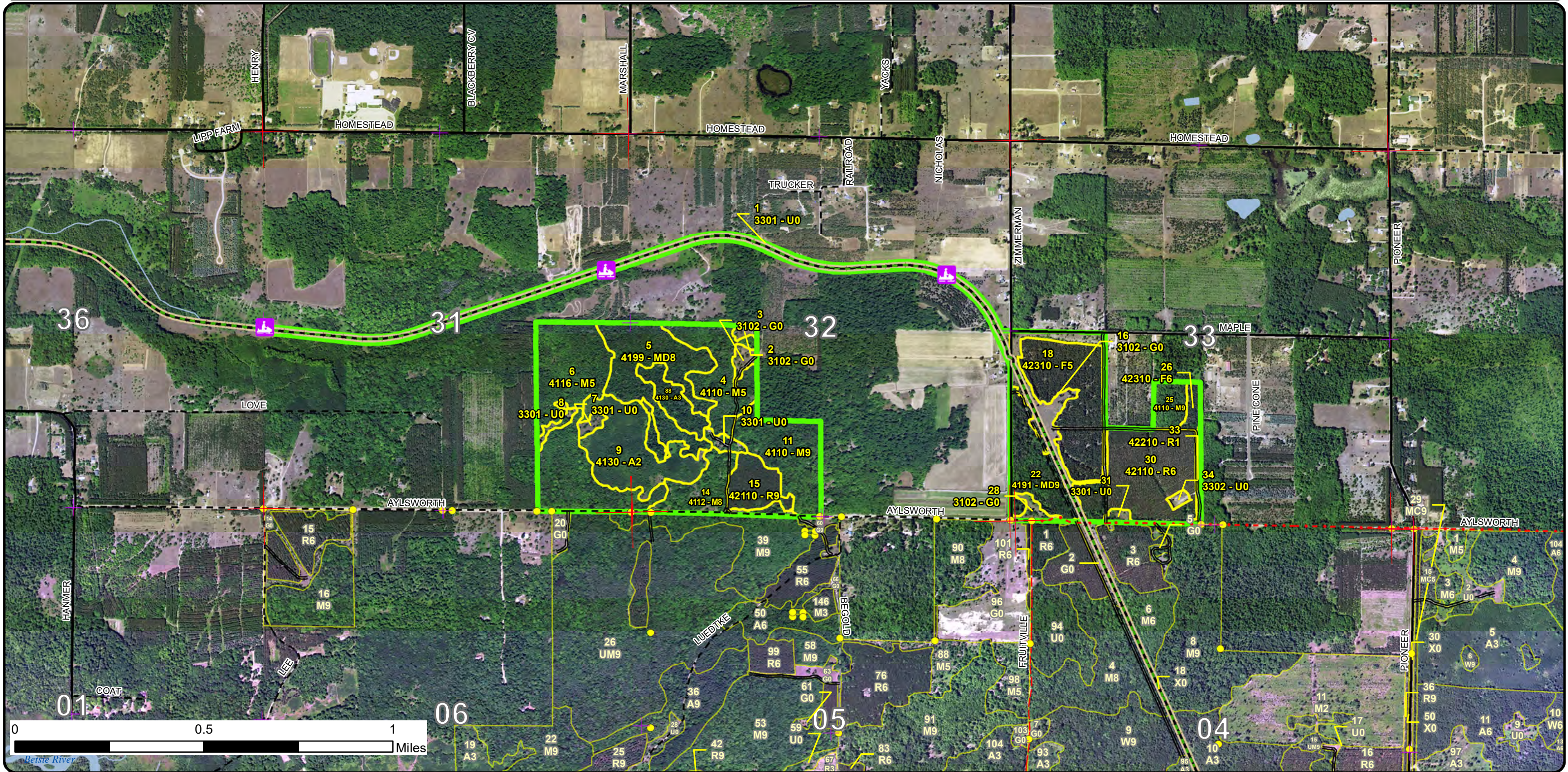


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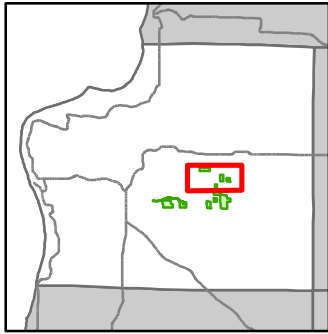


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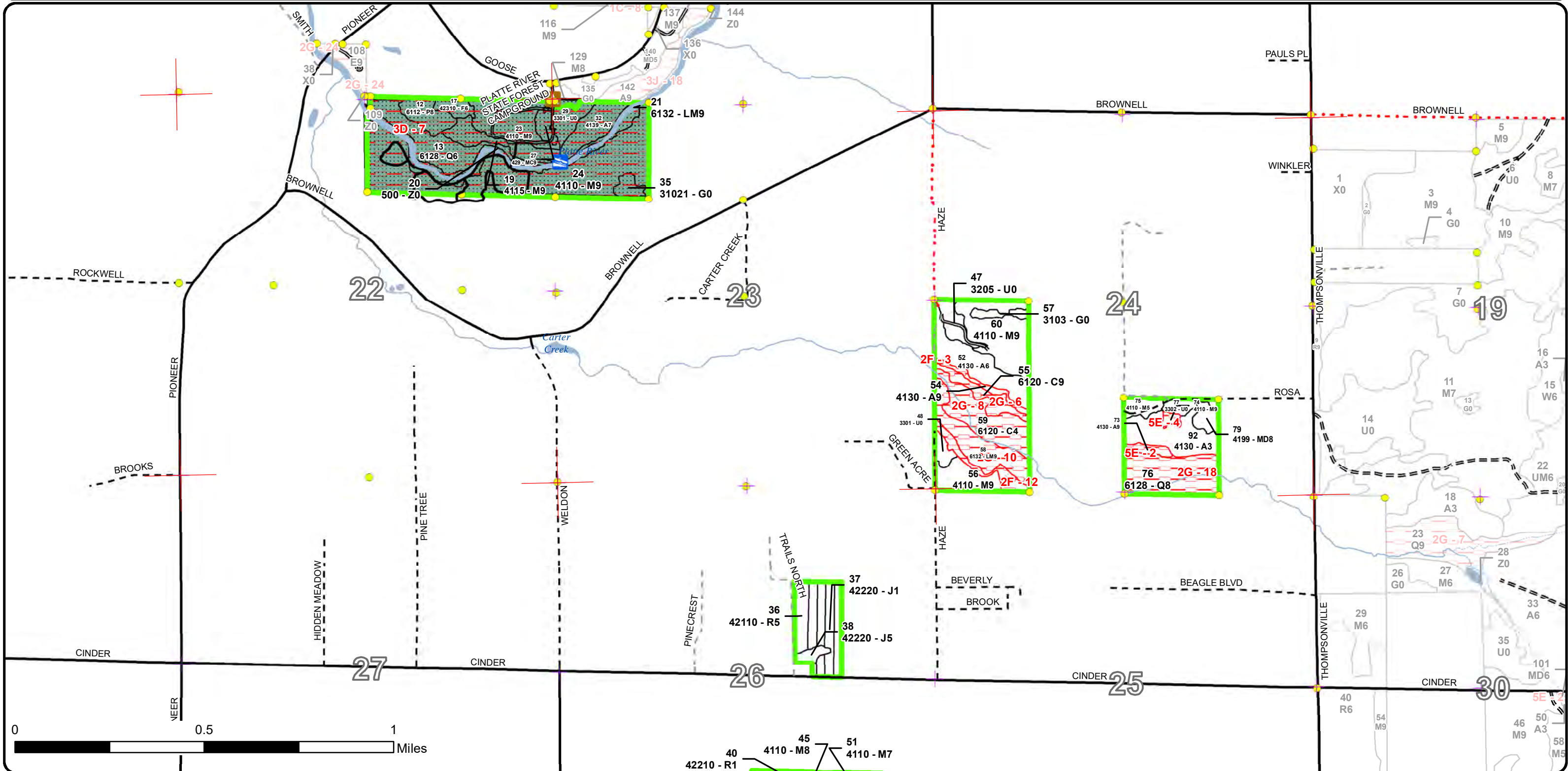


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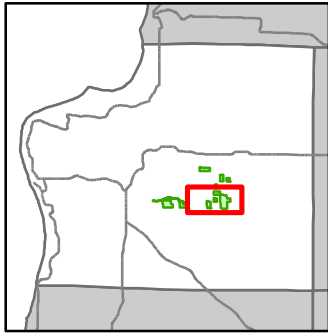


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- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Vernal Pool

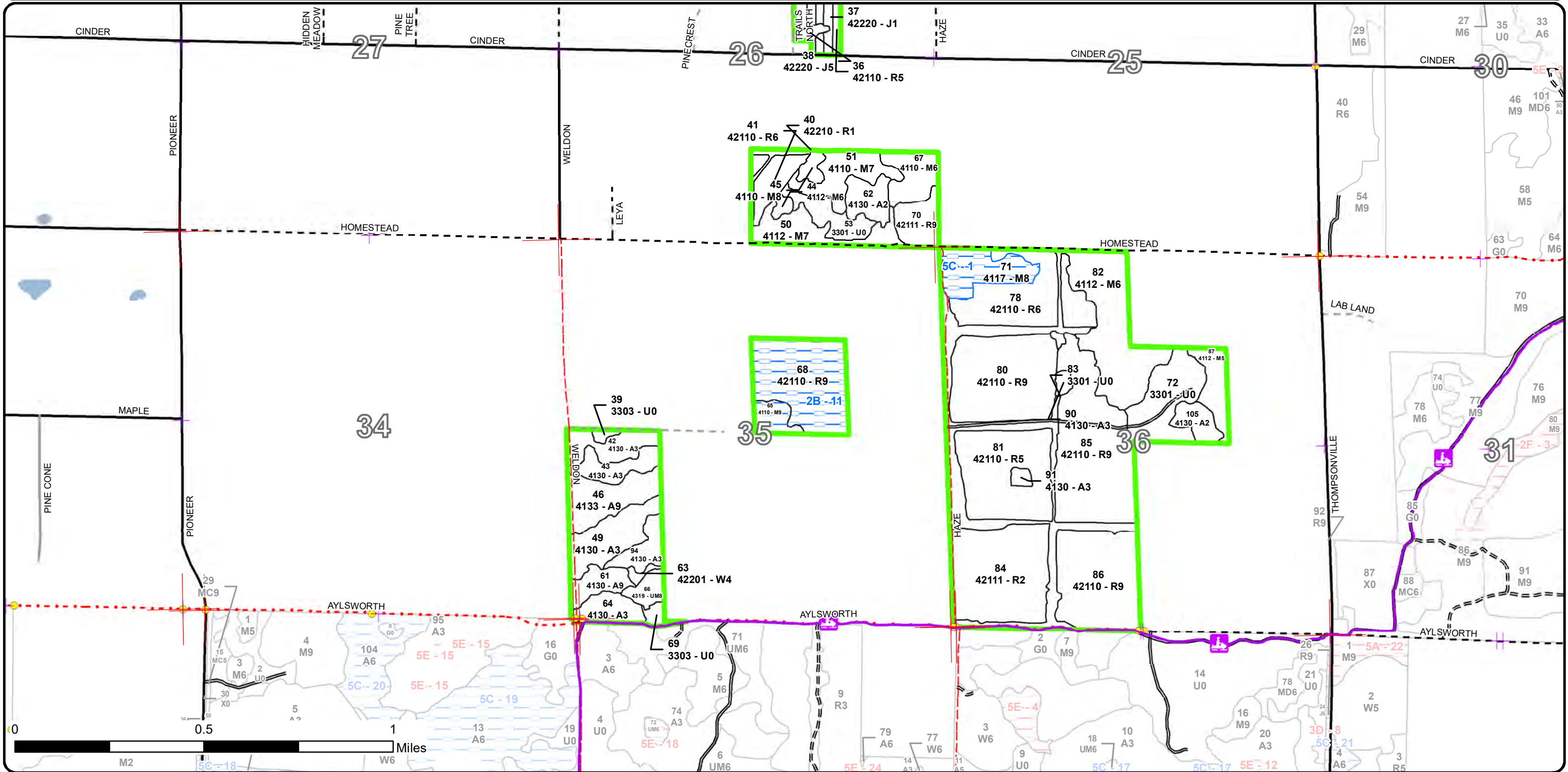


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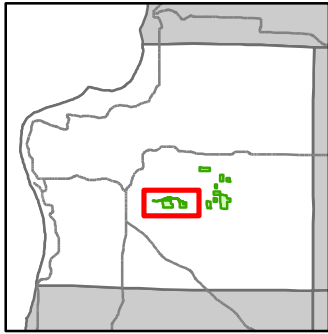


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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries

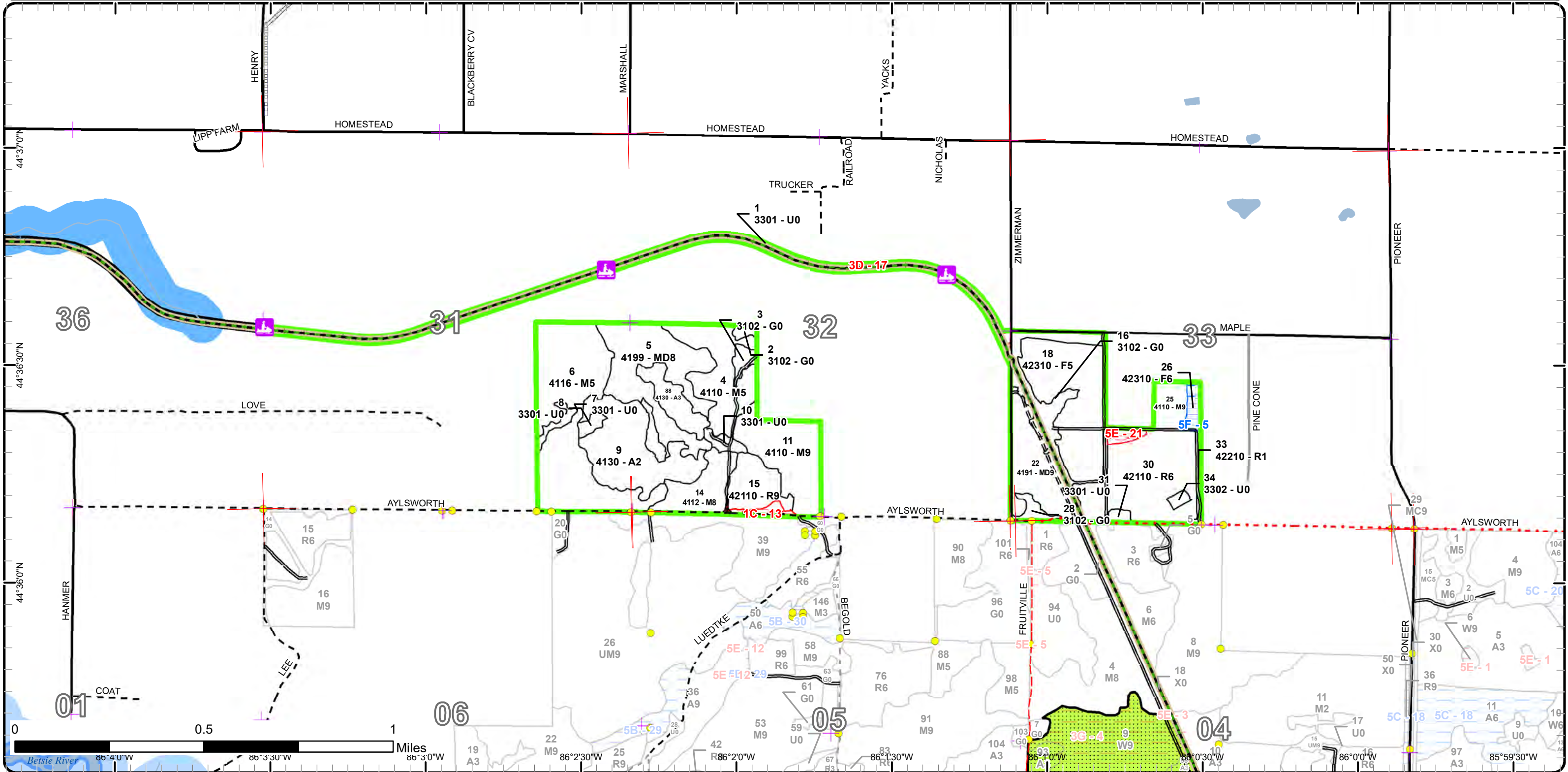


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- Available w/ Constraints
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- 3D: Recreational / Scenic values
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- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Trail - Trail Corridor
- Possible Type 2 Old Growth



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	39	75	20	0	0	0	23	2	2	0	0	0	0	0	0	0	8	168
Cedar	0	0	0	0	0	0	0	0	0	0	0	14	0	5	0	0	0	0	19
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Jack Pine	0	0	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	14	0	17	0	0	0	0	31
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	8	20
Mixed Upland Deciduous	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	33	57
Northern Hardwood	0	0	0	0	0	0	0	9	15	37	49	35	19	0	0	0	48	121	331
Red Pine	0	0	41	3	2	0	218	87	0	0	0	0	0	0	0	0	0	0	351
Upland Conifers	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	4
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	41
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<b>Total</b>	<b>153</b>	<b>39</b>	<b>123</b>	<b>25</b>	<b>2</b>	<b>0</b>	<b>242</b>	<b>162</b>	<b>23</b>	<b>44</b>	<b>49</b>	<b>75</b>	<b>19</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>171</b>	<b>1192</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2024

Compartment 15  
Total Compartment Acres: 1,191

### Acres of Harvest

Commercial Harvest - 171  
Harvests with Site Condition - 40  
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
Aspen	7	0	0	0	0	16	0	0	0	23
Mixed Upland Deciduous	0	0	0	18	0	0	0	0	0	18
Northern Hardwood	0	30	0	0	2	0	0	0	0	32
Red Pine	50	0	0	0	55	0	0	0	0	105
Upland Spruce/Fir	34	0	0	0	0	0	0	0	0	34
<b>Total</b>	<b>91</b>	<b>30</b>	<b>0</b>	<b>18</b>	<b>56</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>211</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	211	0	0	0	0	0	0	20	0	232
Next Step	0	118	84	0	168	239	0	0	0	609
<b>Total</b>	<b>211</b>	<b>118</b>	<b>84</b>	<b>0</b>	<b>168</b>	<b>239</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>841</b>



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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:**

11	61015011-Cut	24.7	4110 - Sugar Maple Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
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Prescription Mark for selection, residual BA about 90. Avoid marking in younger patches. Create some regen gaps in more mature parts of the stand.  
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable mixed hardwoods in regen gaps  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

15	61015015-Cut	11.6	42110 - Planted Red Pine	Sawtimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Mark for thinning; residual BA about 120.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

18	61015018-Cut	34.2	42310 - Planted Spruce	Poletimber Medium	61	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut. Retain patches of healthier, open-grown spruce adjacent to the trail corridor.  
Specs:

Next Step Pesticide, Skidder - Site Prep; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);  
Treatments: Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)

Acceptable planted red pine, with some white spruce volunteers  
Regen:

Other Cut and replant east to the 2-track near the property line, including a narrow strip of stand 16.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023





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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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22	61015022-Cut	17.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	59	81-110	Harvest	Shelterwood with Retention	4191 - Mixed Upland Deciduous with Conifer	Uneven-Aged	No
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Prescription Prescribe for shelterwood harvest. Cut most of the aspen and spruce. Retain some good quality maple, spruce and basswood for shade and seed. Residual BA about 50-60. Regenerate to mixed hardwoods, aspen and spruce. Retain the narrow strip between the trail corridor and a parallel old 2-track. Retain advanced regeneration as much as possible.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed hardwoods, aspen, and spruce

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

41	61015041-Cut	8.7	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Mark for thinning. Residual BA about 120. Leave hardwoods as much as possible for diversity.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

44	61015044-Cut	1.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	82	171-200	Harvest	Crown Thinning	4112 - Maple, Beech, Cherry Association	Two-Aged	No
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Prescription Mark for thinning. Residual BA about 90.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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<b>46</b>	<b>61015046-Cut</b>	16.1	4133 - Aspen, Mixed Pine	Sawtimber Well	60	111-140	Harvest	Overstory Removal	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	No
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Prescription Cut all aspen and ironwood over 2" DBH, leaving all other hardwoods. Mark white pine for thinning where dense if needed for spacing/quality.  
Specs: Retain advanced maple regeneration as much as possible.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: aspen, white pine, and maple

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>61</b>	<b>61015061-Cut</b>	7.0	4130 - Aspen	Sawtimber Well	60	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut. Possible retention patch of hardwoods in SW end of the stand, plus retain some or all of the mature sugar maple and white pine.  
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: aspen and mixed hardwoods, also some white pine

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>65</b>	<b>61015065-Cut</b>	5.5	4110 - Sugar Maple Association	Sawtimber Well	99	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
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Prescription Mark for selection; residual BA about 90. Create a few regeneration gaps.  
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: mixed hardwoods in canopy gaps

Other Comment: Depends on private access.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2023



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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
68 61015068-Cut	34.4	42110 - Planted Red Pine	Sawtimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark for thinning; residual BA about 120. Patch clearcut aspen on west edge.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u> May not have access. Owner of the S1/4SENE of sec. 35 allowed access for thinning in 2007.  <u>Comment:</u>  <u>Site Condition</u> Unknown Access  <u>Proposed Start Date:</u> 10/1 /2023</p>										
72 61015083-NF	20.2	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		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. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u> Could also spin cast some native grass/forb seeds to augment existing herbaceous vegetation.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										
85 61015085-Cut	49.8	42110 - Planted Red Pine	Sawtimber Well	59	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut; no retention prescribed. Replant to red pine post-harvest. Specify chip harvest if at all possible, and low stumps.  <u>Specs:</u>  <u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder -  <u>Treatments:</u> Release; Monitoring, Artificial Regen(3yr)  <u>Acceptable</u> red pine  <u>Regen:</u>  <u>Other</u> Retain E-W 2-track through the stand.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										

**Total Treatment Acreage Proposed: 231.5**

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 15

Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions							
		With Condition				2B	5C	5F	1C	2F	2G	3D	5E
169	157	0		12	Aspen					2	0	7	2
18	0	0		18	Cedar					0	18		
28	26	0		3	Herbaceous Openland							2	0
8	8	0		0	Jack Pine								
115	84	0		31	Low-Density Trees							31	
6	0	0		6	Lowland Aspen/Balsam Poplar							6	
31	1	0		30	Lowland Conifers						16	14	0
21	0	0		20	Lowland Mixed Forest						12	8	
57	57	0		0	Mixed Upland Deciduous								
331	236	20		74	Northern Hardwood	5	15		2	4		67	1
350	313	34		2	Red Pine	34							2
2	0	0		2	Upland Conifers							2	
5	5	0		0	Upland Mixed Forest								
4	4	0		0	Upland Shrub								
41	35	3		3	Upland Spruce/Fir			3				3	
5	0	0		5	Water							5	
1	1	0		0	White Pine								
1,191	927	58		206	Total Forested Acres	40	15	3	2	6	46	146	5
	78%	5%		17%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> mature aspen retained on steeper slope area							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 15

Year of Entry: 2024

3	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Available	5F: Evaluated for Forest Health Considerations	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> root disease risk to residual spruce if thinned							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Carter Creek riparian zone							
7	Unavailable	3D: Recreational / Scenic values	119	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 120 acre block corresponds to a proposed SCA including the Platte River State Forest Campground, Platte Springs Pathway, and surrounding state land. Includes Platte River and riparian area. State land south of the river is on a fairly steep slope and not accessible except via private land.							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Carter Creek riparian zone							

**Report 4 – Site Conditions**

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 15

Year of Entry: 2024

10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Carter Creek riparian zone							
11	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2F: Too steep</b>	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> slopes to Carter Creek floodplain; spring within stand							
13	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is the Betsie Valley Trail corridor along the former Ann Arbor Railroad grade.							
18	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	16	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Carter Creek riparian zone							

21	Unavailable	5E: Long-Term Retention	3	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<b>Comments:</b> turkey roosting cover retained in 2014 thinning							



**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
61015024	Spring Wetlands Riparian Area	Vernal Pool	SCA	120
Comments				





**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
1	3301 - Low Density Deciduous Trees	Nonstocked	26.5		Unspecified	Managed Opening	Betsie Valley Trail corridor along former Ann Arbor railroad grade. Several bluebird boxes along trail. Mixed hardwoods include sugar maple, basswood, elm, black cherry, ironwood, quaking aspen, and paper birch. Mixed pines are mainly Scotch pine. Stand not visited in 2021.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Deciduous Saplings	Low	Variable	Sapling					
								Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub					
								Pines (spp.)	Low	Variable	Sapling					
								Witch Hazel	Trace	5 - 10 feet	Tall Shrub					
								Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub					
								Black Cherry	Low	>20 feet	Pole					
								Sugar Maple	Low	>20 feet	Log					
								Staghorn Sumac	Trace	5 - 10 feet	Tall Shrub					
2	3102 - Grass	Nonstocked	1.3		Immature	No										
								Sub-Canopy Species	Density	Avg. Height	Size					
								Sugar Maple	Low	5 - 10 feet	Sapling					
								Sugar Maple	Trace	>20 feet	Log					
								Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub					
								Black Cherry	Low	>20 feet	Pole					
								Scotch Pine	Trace	5 - 10 feet	Sapling					
								White Spruce	Trace	10 - 20 feet	Sapling					
								Basswood	Low	>20 feet	Log					
								Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub					
3	3102 - Grass	Nonstocked	2.5		Immature	No										
								Sub-Canopy Species	Density	Avg. Height	Size					
								Black Cherry	Trace	Variable	Sapling					
								Quaking Aspen	Trace	10 - 20 feet	Sapling					
								Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub					
								Autumn Olive	Trace	5 - 10 feet	Tall Shrub					
								Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub					
								Sugar Maple	Low	Variable	Sapling					
								Black Cherry	Low	>20 feet	Pole					
								Apple (spp.)	Trace	>20 feet	Pole					
Scotch Pine	Trace	Variable	Sapling													
4	4110 - Sugar Maple Association	Poletimber Medium	22.7	51	51-80	N/A	Stand is well stocked with younger hardwoods, plus sparse mature hardwoods and aspen. Scattered beech, elm, bigtooth aspen. Ash all dead since last inventory except for a scant few survivors. Some mortality in aspen. 2021 BA about 60.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	6	Pole/Log	8	72	Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub
								Ironwood	8	Pole/Sapling	6		Beech	Low	Variable	Sapling
								Black Cherry	1	Pole	8		Sugar Maple	Full	Variable	Sapling
								Red Maple	4	Pole	7		Witch Hazel	Low	10 - 20 feet	Tall Shrub
								Basswood	15	Log/Pole	13		Ironwood	Medium	Variable	Sapling
								Sugar Maple	66	Pole/Sap/Log	6	51				



**Stand**      **Level 4 Cover Type**      **Size Density**      **Acres**      **Stand Age**      **BA Range**      **Managed Site**      **General Comments**

**5**      4199 - Other Mixed Upland Deciduous      Sawtimber Medium      32.6      72      51-80      N/A

Aspen is of poor quality; some mortality, lots of phelinus. Two patches were clearcut out of this parent stand in 2016; these are now stand 88. Ash mostly died since last inventory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8		Sugar Maple	Medium	Variable	Sapling
Basswood	20	Log/Pole/XLog	14		Beech	Low	Variable	Sapling
Quaking Aspen	33	Log/Pole	12	72	Ironwood	High	Variable	Sapling
Bigtooth Aspen	6	Log/Pole	13		Witch Hazel	Medium	10 - 20 feet	Tall Shrub
Ironwood	10	Pole/Sapling	6					
Black Cherry	4	Log/Pole	10					
Beech	2	Pole	8					
Sugar Maple	15	Pole/Log/Sap	7					

**6**      4116 - Mixed N. Hardwood - Aspen      Poletimber Medium      54.1      67      51-80      N/A

Stand is quite variable in size and age; some scattered older hardwoods, good stocking of poles and saplings. Scattered elm, bigtooth aspen, white ash. Some thick witch hazel patches, honeysuckle, hawthorn and juneberry. 2012 BA mean 56; 2021 BAs: 100, 80, 70, 110, 50, 80, 40, 30, 110; mean 74.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	22	Log/Pole	10	71	Ironwood	Medium	Variable	Sapling
Basswood	12	Log/Pole	13		Witch Hazel	Low	10 - 20 feet	Tall Shrub
Black Cherry	2	Pole/Log	8		Deciduous Shrubs	Low	Variable	Tall Shrub
Beech	2	Pole	7		Sugar Maple	High	Variable	Sapling
Ironwood	2	Pole/Sapling	6					
Sugar Maple	55	Pole/Sap/Log	6	67				
Red Maple	5	Pole	7					

**7**      3301 - Low Density Deciduous Trees      Nonstocked      2.0      Immature      No

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low	Variable	Sapling
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub
Pines (spp.)	Trace	Variable	Sapling
Black Cherry	Low	>20 feet	Pole
Sugar Maple	Low	5 - 10 feet	Sapling
Basswood	Low	>20 feet	Log
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub
Honeysuckle (spp.)	Medium	< 5 feet	Tall Shrub
Quaking Aspen	Trace	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8 3301 - Low Density Deciduous Trees Nonstocked 1.7 No

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	>20 feet	Pole
Honeysuckle (spp.)	High	5 - 10 feet	Tall Shrub
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
Quaking Aspen	Trace	>20 feet	Pole
Quaking Aspen	Low	10 - 20 feet	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Deciduous Saplings	Low	Variable	Sapling
Basswood	Low	>20 feet	Log
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Pines (spp.)	Trace	10 - 20 feet	Sapling

9 4130 - Aspen Sapling Medium 31.1 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	15	Sapling	3	17
Quaking Aspen	2	Log	12	72
Black Cherry	5	Pole/Log/Sap	6	
Sugar Maple	5	Sapling/Pole	3	
Quaking Aspen	73	Sapling	2	17

Sub-Canopy Species	Density	Avg. Height	Size
Honeysuckle (spp.)	Full	< 5 feet	Tall Shrub
Witch Hazel	Low	< 5 feet	Tall Shrub
Ironwood	Low	< 5 feet	Sapling

Stand was cut and regenerated in 2005, includes 2 residual islands, about 1 acre each, of mixed aspen/hardwood. Stand is hilly. There are several open, shrubby patches within the stand. Scattered residual juneberry and elm.

10 3301 - Low Density Deciduous Trees Nonstocked 2.4 Immature No Succeeding to hardwoods.

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
Red Pine	Trace	< 5 feet	Seeding
Sugar Maple	Medium	Variable	Sapling
Basswood	Trace	>20 feet	Log
Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub
Quaking Aspen	Trace	>20 feet	Pole
Sugar Maple	Low	>20 feet	Log
Black Cherry	Low	>20 feet	Log
Black Cherry	Low	>20 feet	Pole
Bur Oak	Trace	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
11	4110 - Sugar Maple Association	Sawtimber Well	24.7	108	111-140	N/A	(2012: mean BA 97. Parts of stand are denser and could be thinned, but overall acreage would be low. Significant regen patches in parts of the stand.) 2021 BAs: 150, 200, 120, 60, 120, 140; mean 132.																																																							
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12	6112 - Lowland Aspen	Sawtimber Medium	5.7	75	Unspecified	N/A	Some surviving black ash.																																																							
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13	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	14.2	100		N/A	Stand is in the Platte River floodplain with numerous seeps. Trace amounts of tamarack, white pine; a few surviving black ash poles.																																																							
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14	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	16.0	82	51-80	N/A	There are some old cottonwoods along the road in the SE part of the stand, plus old cellar holes. Stand includes numerous small openings slowly filling in with maple. Scattered honeysuckle, hawthorn, and juneberry.																																																							
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15	42110 - Planted Red Pine	Sawtimber Well	11.6	59	141-170	N/A	Stand was 3rd-row thinned in 2006. Heavy understory cover of hardwood seedlings and saplings including beech, sugar maple, ironwood, cherry. 2012 BA about 140, 2021 about 170.																																																							
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16	3102 - Grass	Nonstocked	17.8			Managed Opening																																									
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18	42310 - Planted Spruce	Poletimber Medium	34.8	61	81-110	N/A	Stand was 3rd-row thinned in 2006. Scattered hardwoods on edges. Mortality/blowdown pockets throughout. 2022 BAs: 90, 90, 90, 140, 90; mean 100.																																								
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19	4115 - Y.Birch, Hemlock NH	Sawtimber Well	7.0	100	171-200	N/A	Stand has small amounts of quaking aspen, cedar,, and black cherry. Lots of beech mortality since last inventory.																																								
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20	500 - Water	Nonstocked	4.7			No	Platte River																																								
21	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	8.3	117	171-200	N/A	Platte River floodplain. There are numerous seeps and springs and a fair amount of blowdown. Stand not visited in 2021; data rolled forward from 2011 inventory.																																								
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22	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	21.4	59	81-110	N/A	There is significant mortality/blowdown of the spruce. 2022 BAs: 190, 110, 130, 40, 60; mean 106.																																																												
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23	4110 - Sugar Maple Association	Sawtimber Well	12.6	118	141-170	N/A	Platte River State Forest Campground. Beech mostly died since last inventory.																																																												
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24	4110 - Sugar Maple Association	Sawtimber Well	47.8	155	111-140	N/A	Most of the stand is on a steep bluff along the Platte River cut by numerous draws with seeps/springs. Stand not field visited in 2021; data rolled forward from 2011 inventory, but ash component removed from canopy table and other species cover percentages adjusted proportionally. Beech likely at risk of BBD mortality.																																																												
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25	4110 - Sugar Maple Association	Sawtimber Well	6.8	112	81-110	N/A	Stand was thinned in 2005 resulting in a thick flush of ironwood seedlings and saplings. Scattered red maple, elm, understory hemlock. 2022 BA about 100.																																																												
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26	42310 - Planted Spruce	Poletimber Well	3.1	61	111-140	N/A	Stand was thinned in 2006. Some mortality/blowdown, possibly from root rot. 2012 SI trees: 9.6" 66', 9.2" 61'. 2022 BA about 140.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**27** 429 - Mixed Upland Conifers Sawtimber Well 2.4 61 201+ N/A Platte River State Forest Campground

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole/Log	9		Sugar Maple	Medium	Variable	Sapling
White Spruce	25	Log/Pole	12	61				
White Pine	52	Log/Pole/XLog	16	61				
Red Pine	3	XLog/Log	18					
Black Cherry	10	Log/Pole	12					

**28** 3102 - Grass Nonstocked 2.6 No Very uneven terrain; may be old excavations/homestead site.

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Trace	>20 feet	Log
White Spruce	Trace	Variable	Sapling
Honeysuckle (spp.)	Medium	5 - 10 feet	Tall Shrub
Black Cherry	Low	>20 feet	Pole
Aspen (spp.)	Low	>20 feet	Pole

**29** 3301 - Low Density Deciduous Trees Nonstocked 4.4 Immature No Filling in with white pine.

Sub-Canopy Species	Density	Avg. Height	Size
Scotch Pine	Trace	Variable	Sapling
Black Cherry	Trace	>20 feet	Log
White Pine	Low	>20 feet	Pole
Quaking Aspen	Trace	>20 feet	Pole
White Pine	Medium	Variable	Sapling
Bracken Fern	Medium		Non-Wood
Black Cherry	Low	>20 feet	Pole
Black Cherry	Trace	Variable	Sapling
Sugar Maple	Trace	>20 feet	Pole
Sugar Maple	Low	Variable	Sapling

**30** 42110 - Planted Red Pine Poletimber Well 39.7 66 111-140 N/A Stand was pruned in 1992, 3rd-row thinned in 1996, 3rd-tree thinned in 2014 (SW lobe was a marked thinning; 2.5 acres in NW corner left unthinned for turkey roosting cover). There are some mature white pine and sugar maple along Aylsworth Road. There are some sapling hardwoods and red pines in the open lane that bisects the stand; sugar maple seedlings in SW lobe. 2012 SI trees: 9.3" 70', 9.0" 71', 8.1" 73'. 2022 BAs: 130, 100, 130, 160, 140, 140; mean 133.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	95	Pole/Log	9	66	Beech	Medium	Variable	Sapling
Sugar Maple	2	Log/XLog	16		Sugar Maple	Trace	5 - 10 feet	Seeding
Red Maple	1	Log	12		Conifers	Low	Variable	Sapling
Black Cherry	2	Log	12					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
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32	4139 - Aspen, Mixed Deciduous	Sawtimber Poor	7.6	60		N/A	Stand is borderline upland/lowland; high water table. Scattered paper birch, yellow birch, hemlock, cherry, and elm.																																																															
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33	42210 - Natural Red Pine	Sapling Poor	2.2	32	Immature	N/A	Stand consists of volunteer red pine saplings and small poles of various ages up to about 32, plus a few ironwood, sugar maple and beech saplings.																																																															
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34	3302 - Low Density Conifer Trees	Nonstocked	1.2			No	Old well pad, dry hole plugged 8/31/1970. Red pine volunteers filling in.																																																															
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35	31021 - Cool Season Grass	Nonstocked	2.4			No	Stand not field visited in 2021 inventory; data rolled forward from 2011 inventory.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>36</b>	42110 - Planted Red Pine	Poletimber Medium	10.6	67	111-140	N/A	Stand was 3rd-row thinned in 2005; marked thinning summer 2016. Narrow strip of white pine and old sugar maple along Cinder Rd. Residual BA from sale cruise = 126 in 2014. 2021 BAs: 130, 110, 150, 120; mean 128.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		100	Pole/Log	9	67	Deciduous Saplings		Low	Variable	Sapling
						Pines (spp.)	Low	< 5 feet	Sapling	
<b>37</b>	42220 - Natural Jack Pine	Sapling Poor	6.6	14	Immature	N/A	Clearcut in summer 2016. Some residual mature white pine and sugar maple along the road. Lots of standing dead and fallen JP from prior plantation.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Sugar Maple		10	Sapling/Pole	3						
Jack Pine		75	Sapling	1	14					
Black Cherry		10	Sapling	3						
Beech		5	Sapling	2						
<b>38</b>	42220 - Natural Jack Pine	Poletimber Medium	1.7	23	Immature	N/A	Stand originated from a 1999 wildfire and follow-up salvage cut. There are 2 solid patches of jack pines where there was plantation jack pine pre-fire; remainder of the stand is filling in with a mix of volunteer red pine and jack pine, or is still fairly open.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Jack Pine		90	Pole/Sapling	5	23					
Red Pine		10	Sapling/Pole	3	14					
<b>39</b>	3303 - Mixed Low Density Trees	Nonstocked	1.2		Immature	No	Most of the Scotch pine and aspen were cut out of this opening along with adjacent aspen clearcut in May 2016.			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Black Cherry		Trace	>20 feet	Pole						
White Pine		Low	Variable	Sapling						
Black Cherry		Low	>20 feet	Log						
Red Pine		Low	>20 feet	Log						
Common Or Ground Juniper		Trace	< 5 feet	Tall Shrub						
Deciduous Saplings		Low	Variable	Sapling						
Red Maple		Low	>20 feet	Pole						
Honeysuckle (spp.)		Trace	< 5 feet	Tall Shrub						
Scotch Pine		Trace	5 - 10 feet	Sapling						
<b>40</b>	42210 - Natural Red Pine	Sapling Poor	2.6	21	1-50	N/A	Opening filling in with red pine volunteers. Some mature sugar maple along the north property line.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Sugar Maple		20	Log/Pole	13						
Red Pine		80	Sapling/Pole	2	21					
<b>41</b>	42110 - Planted Red Pine	Poletimber Well	8.7	59	141-170	N/A	Stand was 3rd-row thinned in 2005. 2012: mean BA 134; SI trees: 9.3" 67', 9.5" 64', 8.7" 63'. 2022 BAs: 180, 120, 140, 180, 180; mean 160. Scattered aspen.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		4	Log/Pole	10		Deciduous Saplings		Trace	Variable	Sapling
Red Pine		93	Pole/Log	9	59	Pines (spp.)		Trace	Variable	Sapling
Red Maple		1	Log/Pole	12		Beech		Medium	Variable	Sapling
Black Cherry		2	Log	14						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
42	4130 - Aspen	Sapling Well	9.9	6	Immature	N/A	Red pine is in a single row along the north edge of the stand. Clearcut May 2016; numerous hardwoods retained in the south-central part of the stand plus scattered white pine. Good SM regeneration in places.																																																				
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43	4130 - Aspen	Sapling Well	8.3	17	Immature	N/A	Stand resulted from a 2005 clearcut with residuals. 2-storied stand, with remnant white pine and hardwoods over aspen saplings.																																																				
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44	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.6	82	171-200	N/A	Planted white pine.																																																				
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45	4110 - Sugar Maple Association	Sawtimber Medium	2.7	100	81-110	N/A	Under-planted white pine. Thinned in June 2016. 2022 BA about 90.																																																				
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46	4133 - Aspen, Mixed Pine	Sawtimber Well	16.1	60	111-140	N/A	Scattered red maple, basswood. 2021 BA about 130. Aspen is declining. Note: there is a private driveway easement west of Haze Rd.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**47** 3205 - Mixed Upland Shrub Nonstocked 4.1 Immature Managed Opening Two strips of planted conifers have autumn olive planted in between.

Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	Medium		Non-Wood
Staghorn Sumac	Trace	10 - 20 feet	Tall Shrub
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Autumn Olive	Medium	5 - 10 feet	Tall Shrub
Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Trace	>20 feet	Pole
White Spruce	Trace	Variable	Sapling
Apple (spp.)	Trace	>20 feet	Tall Shrub
Sugar Maple	Trace	>20 feet	Pole
White Spruce	Low	>20 feet	Pole
Red Pine	Low	>20 feet	Log
Spotted Knapweed	High		Non-Wood

**48** 3301 - Low Density Deciduous Trees Nonstocked 2.1 No

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Black Cherry	Trace	>20 feet	Pole
Sugar Maple	Medium	>20 feet	Pole
Scotch Pine	Trace	10 - 20 feet	Sapling

**49** 4130 - Aspen Sapling Well 15.7 17 Immature N/A Stand resulted from a 2005 clearcut with scattered mixed residual hardwoods and white pine.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	1	Log	14	
Quaking Aspen	20	Sapling	3	17
Black Cherry	2	Log/Pole	10	
Ironwood	6	Sapling/Pole	4	
Bigtooth Aspen	70	Sapling	3	17
Basswood	1	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	< 5 feet	Seeding
Ironwood	Medium	Variable	Sapling
Red Maple	Low	< 5 feet	Seeding

**50** 4112 - Maple, Beech, Cherry Association Sawtimber Poor 14.3 94 51-80 N/A Fairly open understory with many Scotch pine saplings and scattered clumps of mixed hardwood saplings and quaking aspen sprouts. Stand includes patches of mature planted white pine.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	1	Pole	8	
Red Maple	20	Log	14	
Sugar Maple	60	Log/Pole/XLog	14	94
Basswood	3	Log	16	
Bigtooth Aspen	1	Log/Pole	12	
White Pine	10	Log/Pole	12	51
Black Cherry	3	Log	14	
Scotch Pine	2	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Trace	Variable	Sapling
Scotch Pine	Medium	10 - 20 feet	Sapling
Sugar Maple	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Quaking Aspen	Trace	Variable	Sapling
Ironwood	Low	Variable	Sapling
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>51</b>	4110 - Sugar Maple Association	Sawtimber Poor	13.7	94	1-50	N/A	Stand was cut through in 1996 with larger hardwoods retained creating a two-storied stand. Regeneration varies in species and density, being thicker where more open. Regen. includes sugar maple, white ash, black cherry, ironwood, Scotch pine, white pine, and scattered thickets of quaking aspen.																																																		
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<b>52</b>	4130 - Aspen	Poletimber Well	12.3	26	Immature	N/A	Cut/regenerated in 1996. Fruiting shrubs include autumn olive, hawthorn, juneberry. Patch of mature remnant aspen at northwest end of stand, with a few maple & basswood. Scattered residual red oaks.																																																		
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<b>53</b>	3301 - Low Density Deciduous Trees	Nonstocked	8.8			No	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>Low</td> <td>&gt;20 feet</td> <td>Log</td> </tr> <tr> <td>Quaking Aspen</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Honeysuckle (spp.)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Scotch Pine</td> <td>Trace</td> <td>&gt;20 feet</td> <td>Pole</td> </tr> <tr> <td>Spotted Knapweed</td> <td>Medium</td> <td></td> <td>Non-Wood</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Scotch Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	>20 feet	Log	Quaking Aspen	Medium	Variable	Sapling	Honeysuckle (spp.)	Medium	5 - 10 feet	Tall Shrub	Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub	Sugar Maple	Low	Variable	Sapling	White Pine	Trace	Variable	Sapling	Scotch Pine	Trace	>20 feet	Pole	Spotted Knapweed	Medium		Non-Wood	Black Cherry	Low	Variable	Sapling	Scotch Pine	Trace	Variable	Sapling	White Oak	Trace	10 - 20 feet	Sapling		
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<b>54</b>	4130 - Aspen	Sawtimber Well	2.4	82	Unspecified	N/A	Stand is a narrow strip of overmature aspen on a north facing slope, between an aspen pole stand and swamp conifers along Carter Creek. Scattered birch.																																																		
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<b>55</b>	6120 - Lowland Cedar	Sawtimber Well	4.7	122	Unspecified	N/A	Carter Creek floodplain. Old RR grade runs through the stand. Scattered white birch, cherry, super-canopy white pine. Lots of blowdown.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>56</b>	4110 - Sugar Maple Association	Sawtimber Well	11.1	119	81-110	N/A	The stand varies considerably in age and density. Most of the hemlock is concentrated east of the spring/stream and along the edge of the adjacent conifer swamp. 2021 BAs:140, 70, 70, 140, 110, 90; mean 103, Some mortality in cherry.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Hemlock		5	Log	12		Sugar Maple		
Beech		2	XLog/Log	20		Ironwood		
Black Cherry		8	Log	16		Hemlock		
Red Maple		4	Log/Pole	12		Ironwood		
Basswood		4	Log	15				
Ironwood		1	Pole	7				
Bigtooth Aspen		3	Log/Pole	12				
Sugar Maple		73	Log/Pole/Sap	10	119			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>57</b>	3103 - Rubus-Fern	Nonstocked	1.9			Managed Opening	
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Scotch Pine		Trace	Variable	Sapling			
Deciduous Saplings		Low	Variable	Sapling			
Spotted Knapweed		High		Non-Wood			
Autumn Olive		Medium	5 - 10 feet	Tall Shrub			
Bracken Fern		High		Non-Wood			
Black Cherry		Low	>20 feet	Pole			
Common Or Ground Juniper		Trace	< 5 feet	Tall Shrub			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>58</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	12.3	108	141-170	N/A	Stand slopes gradually from southwest to northeast towards creek. Quite a bit of blowdown. A Carter Creek tributary runs through the east end of the stand.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Hemlock		25	Log/Pole	12		Hemlock		
Red Maple		20	Log/Pole/XLog	16				
Quaking Aspen		7	Log	16				
Yellow Birch		18	Log/Pole	12	108			
Northern White Cedar		30	Log/Pole	10	108			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>59</b>	6120 - Lowland Cedar	Poletimber Poor	13.6	108	81-110	N/A	Lots of standing dead and blowdown cedar, resulting in a sparse canopy. Carter Creek flows through the stand. Scattered balsam fir, hemlock, tamarack, white pine, and yellow birch.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		4	Log/Pole	12		Alder		
Quaking Aspen		6	Log/Pole	12		Hemlock		
Northern White Cedar		90	Pole/Log	9	108	Northern White Cedar		



**Stand**      **Level 4 Cover Type**      **Size Density**      **Acres**      **Stand Age**      **BA Range**      **Managed Site**      **General Comments**

**60**      4110 - Sugar Maple Association      Sawtimber Well      16.4      102      81-110      N/A

Variable in size and density, Some open gaps. Scattered red oak, elm, hemlock, white pine. Clone of aspen in NW corner. Understory is being invaded by autumn olive. 2021 BAs: 120, 80, 90, 140, 90, 90, 100; mean 101.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	46	Pole/Log	9	102	Autumn Olive	Medium	5 - 10 feet	Tall Shrub
Basswood	45	Log/Pole	12		White Pine	Trace	Variable	Sapling
Ironwood	1	Pole	7		Sugar Maple	Medium	Variable	Sapling
Bigtooth Aspen	1	Log/Pole	13		Ironwood	High	Variable	Sapling
Red Maple	3	Log/Pole	13		Hemlock	Low	Variable	Sapling
Black Cherry	4	Log/Pole	10					

**61**      4130 - Aspen      Sawtimber Well      7.0      60      Unspecified      N/A

Scattered black cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	11		Witch Hazel	Low	10 - 20 feet	Tall Shrub
Sugar Maple	3	Log/Pole	12		Red Maple	Medium	Variable	Sapling
White Pine	1	Pole	8		Ironwood	High	Variable	Sapling
Ironwood	1	Pole	6		White Pine	Trace	Variable	Sapling
Bigtooth Aspen	75	Log/Pole	13	60				
Quaking Aspen	15	Pole/Log	9	60				

**62**      4130 - Aspen      Sapling Medium      7.9      26      Immature      N/A

Stand was cut in 1996. Remnant mature hardwoods. Moderately stocked, fair to poor quality. Scattered sapling Scotch pine and white oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	3	Log	16		Honeysuckle (spp.)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	70	Sapling	2	26				
Black Cherry	10	Sapling	2					
Ironwood	2	Sapling	2					
Sugar Maple	5	XLog/Log	18					
Basswood	2	Log	17					
Sugar Maple	8	Sapling	1					

**63**      42201 - Natural White Pine, Mixed Deciduous      Poletimber Poor      1.2      22      1-50      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	3	Sapling	2		White Pine	Low	Variable	Sapling
Bigtooth Aspen	3	Sapling	3		Deciduous Saplings	Low	Variable	Sapling
White Pine	67	Pole/Sap/Log	6	22				
Black Cherry	25	Log/XLog	14					
Red Maple	2	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
<b>64</b>	4130 - Aspen	Sapling Well	7.7	17	Immature	N/A	Stand resulted from a 2005 clearcut with scattered residual black cherry, red maple, ironwood and white pine.																																																			
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<b>65</b>	4110 - Sugar Maple Association	Sawtimber Well	5.5	99	111-140	N/A	Stand is within a land-locked parcel, small acreage. Numerous cavity trees. 2021 BAs: 150, 120, 110, 110; mean 122. Good quality timber.																																																			
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<b>66</b>	4319 - Mixed Upland Forest	Sawtimber Medium	4.5	86	81-110	N/A	Thinned in April 2016. Residual BA from sale cruise: RM 36, WP 32, SM 18, BTA 8, BC 6; total 100. 2021 BA about 110.																																																			
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<b>67</b>	4110 - Sugar Maple Association	Poletimber Well	10.5	94	81-110	N/A	Hardwood stand underplanted with white pine. Scotch pine and white pine plantations on adjacent property to the north extend onto state land in the north part of this stand. Stand was thinned in May 2016, including removal of all the Scotch pine that was in the northeast corner of the stand. Scattered basswood, aspen. 2022 BA about 105. Strip of aspen regen along south edge.																																																			
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<b>68</b>	42110 - Planted Red Pine	Sawtimber Well	34.4	59	141-170	N/A	Stand was 3rd-row thinned in 2007. 2021 BAs: 170, 150, 170, 220, 150; mean 172 (152 in 2011).. Mature aspen patch along west edge. Scattered mature ironwood. Stand is succeeding to hardwoods. Stand is within a land-locked parcel.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**69** 3303 - Mixed Low Density Trees Nonstocked 2.1 Immature No Filling in with saplings. Maybe change to forested cover type next inventory.

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Trace	>20 feet	Log
Spotted Knapweed	Low		Non-Wood
Mixed Grasses	High		Non-Wood
Black Cherry	Low	>20 feet	Pole
Deciduous Saplings	Low	Variable	Sapling
Scotch Pine	Trace	Variable	Sapling
White Pine	Low	>20 feet	Log
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
White Pine	Low	Variable	Sapling
Quaking Aspen	Low	10 - 20 feet	Sapling
Black Cherry	Low	>20 feet	Log
Ironwood	Low	Variable	Sapling

**70** 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 9.1 59 141-170 N/A (2012 comments: Hardwoods along road and scattered throughout stand, many multi-stemmed. Lots of advanced deciduous seedlings, mostly sugar maple and beech. SI trees: 10.6" 64', 10.3" 69'. ) Thinned in May, 2016. Residual BA from sale cruise: about 100 RP, 30 mixed hardwoods. 2022 BA about 150.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	75	Log/Pole	10	59
Black Cherry	6	Log	14	
Red Maple	12	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	5 - 10 feet	Sapling
Beech	Medium	5 - 10 feet	Sapling

**71** 4117 - Mixed N. Hardwood - Pine Sawtimber Medium 15.0 71 111-140 N/A Stand was thinned summer 2015. 2022 BA about 120.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Log/Pole	10	
Red Maple	45	Log/Pole	10	71
White Pine	35	Pole/Log	9	59
Black Cherry	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	>20 feet	Pole
Ironwood	Low	Variable	Sapling
Ironwood	High	< 5 feet	Seeding
White Pine	Low	Variable	Sapling
Quaking Aspen	Trace	Variable	Sapling
Beech	Low	Variable	Sapling
White Pine	Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**72** 3301 - Low Density Deciduous Trees Nonstocked 20.2 Unspecified Managed Opening Some small patches of well-stocked hardwoods, scattered aspen clones, and areas of well-stocked red pine saplings. Commercially cut in May 2016 to reduce tree cover. Most of the larger cherry and all of the Scotch pine were cut; other species retained (maple, red pine, etc.).

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Black Cherry	Trace	>20 feet	Pole
Jack Pine	Trace	Variable	Sapling
Deciduous Saplings	Trace	Variable	Sapling
Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub
Red Maple	Low	>20 feet	Log
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Sugar Maple	Trace	>20 feet	Log
Scotch Pine	Trace	< 5 feet	Seeding
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Autumn Olive	Trace	5 - 10 feet	Tall Shrub

**73** 4130 - Aspen Sawtimber Well 1.9 70 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	86	Log/XLog/Pole	14	70	Beech	Low	Variable	Sapling
Beech	2	Pole/Log	9		White Pine	Low	>20 feet	Pole
White Pine	2	Pole/Log	8		White Pine	Low	Variable	Sapling
Red Maple	10	Log/Pole	10		Hemlock	Low	10 - 20 feet	Sapling
					Ironwood	Low	Variable	Sapling

**74** 4110 - Sugar Maple Association Sawtimber Well 1.0 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	1	Pole	5		Sugar Maple	Medium	Variable	Sapling
Sugar Maple	60	Log/Pole	12	91	Ironwood	High	Variable	Sapling
Basswood	25	Log	12					
White Pine	2	Log	12					
Red Maple	2	Pole	9					
Bigtooth Aspen	10	Log	11					

**75** 4110 - Sugar Maple Association Poletimber Medium 3.0 91 51-80 N/A A utility R.O.W. and Rosa Road pass through the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	10	Pole/Sapling	6		Ironwood	High	Variable	Sapling
Bigtooth Aspen	5	Pole/Log	9		Sugar Maple	Low	Variable	Sapling
Black Cherry	2	Pole	8					
Basswood	18	Pole/Log	9					
Sugar Maple	65	Pole/Log	9	91				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
76	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	16.7	122	171-200	N/A	Scattered aspen, paper birch, cherry, and super-canopy white pine. The stand has some significant patches of blowdown and standing flood-killed cedar, especially in the west half.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	35	Log/Pole	10	122
Yellow Birch	25	Log/Pole	11	
Hemlock	30	Log/Pole	12	
Red Maple	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	>20 feet	Pole
Northern White Cedar	Medium	>20 feet	Pole
Hemlock	Medium	Variable	Sapling

77	3302 - Low Density Conifer Trees	Nonstocked	2.6		Immature	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	High		Non-Wood
Scotch Pine	Low	>20 feet	Pole
American Elm	Trace	>20 feet	Pole
Spotted Knapweed	Medium		Non-Wood
Black Cherry	Low	>20 feet	Pole
Scotch Pine	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	Trace	10 - 20 feet	Sapling
Black Cherry	Trace	Variable	Sapling
Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub
Sugar Maple	Low	Variable	Sapling
Autumn Olive	Trace	5 - 10 feet	Tall Shrub

78	42110 - Planted Red Pine	Poletimber Well	30.0	59	111-140	N/A	(2012 comments: Stand was 3rd-row thinned in 2005, crowns starting to close back in. Hardwoods are low quality, multi-stemmed.) Thinned again summer 2015. 2022 BAs: 110, 90, 130, 140, 110; mean 116. Scattered aspen.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	88	Pole/Log	9	59
Black Cherry	5	Log/Pole	12	
Red Maple	5	Log/Pole	12	
Sugar Maple	2	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	Sapling
Red Maple	Trace	5 - 10 feet	Seeding
Ironwood	Low	Variable	Sapling

79	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	2.8	55	81-110	N/A	A few honeysuckle, autumn olive shrubs.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	55	Log/Pole	10	55
Black Cherry	5	Pole/Log	9	
Bigtooth Aspen	5	Pole/Log	9	
Ironwood	5	Pole/Log	8	
Basswood	15	Log	14	
Sugar Maple	15	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Ironwood	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
<b>80</b>	42110 - Planted Red Pine	Sawtimber Well	39.7	59	141-170	N/A	[2012: Stand was 3rd-row thinned in 2005, still a fair amount of headroom in the canopy. Hardwoods are low quality, multi-stemmed. BA mean 151. SI trees: 9.8" 64', 9.3" 64', 9.4" 62'.] 2021 BAs: 130, 150, 130, 150, 190, 200, 170, 160; mean 160. Hardwood regeneration is thick in places.																																																												
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<b>81</b>	42110 - Planted Red Pine	Poletimber Medium	34.8	59	111-140	N/A	(2012 comments: Stand was 3rd-row thinned in 2005, crowns are starting to close in. Hardwoods are low quality, multi-stemmed. BA's: 210, 130, 190, 190, 200; mean 184. SI trees: 10.4" 68', 9.2" 62'.) Thinned again in summer 2015; every third RP cut, plus a small amount of hardwoods. 2021 BAs: 130, 150, 100, 120, 100, 80; mean 113.																																																												
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<b>82</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	35.8	85	81-110	N/A	Generally low to medium quality, numerous multi-stemmed trees. Scattered white pine, sugar maple, black cherry. One part of stand has underplanted white pine, spruce, & Douglas-fir. Bigtooth aspen is in scattered clones. 2021 BAs: 90, 100, 120, 150, 120, 130; mean 118.																																																												
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Conifers	Low	Variable	Sapling																																																																
<b>83</b>	3301 - Low Density Deciduous Trees	Nonstocked	37.9		Unspecified	Managed Opening	Semi-open lanes between RP plantation blocks. Some small patches of well-stocked hardwoods, scattered aspen clones, and areas of well-stocked red pine saplings.																																																												
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84	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	40.8	11	Immature	N/A	Prior mature RP plantation here was final harvested in 2009-2010, trenched 2010, replanted spring 2011. Cherry stump sprouts and patches of aspen sprouts. Pine is starting to close in, fairly well stocked.																																																						
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85	42110 - Planted Red Pine	Sawtimber Well	49.8	59	111-140	N/A	Stand was 3rd-row thinned in 2005. Hardwoods are low quality, multi-stemmed. Thinned again in summer 2015; every third RP cut plus some hardwoods. 2021 BAs: 170, 130, 110, 100, 130, 130; mean 128.																																																						
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86	42110 - Planted Red Pine	Sawtimber Well	35.8	67	141-170	N/A	(2012 comments: Stand was 3rd-row thinned in 1996. Includes 2 hardwood patches in NE and SC parts of stand, plus scattered old black cherry throughout. BA's: 170, 200, 160, 180, 150; mean 170. SI trees: 10.1" 65', 10.8" 64'.) Stand was thinned again in April 2015, including the hardwood patches. 2021 BAs: 130, 130, 170, 160, 110, 160; mean 143. Pushing to hardwoods; maple regen is thick in places.																																																						
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87	4112 - Maple, Beech, Cherry Association Poletimber Medium	Medium	9.1	65	81-110	N/A	(2012 comment: Numerous multi-stemmed hardwoods, generally low quality.) Thinned in May 2016; chip harvested.																																																						
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88	4130 - Aspen	Sapling Well	11.6	6	Immature	N/A	Clearcut with retention Oct. 2016. Residuals included sugar maple, black cherry, witch hazel, fruiting shrubs. More retained maple/less aspen regeneration in the SW part of the stand.																																																						
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<b>90</b>	4130 - Aspen	Sapling Well	2.3	7	Immature	N/A	Clearcut in spring 2015; some RP residuals. In both patches, west side was fully stocked with aspen saplings, east sparsely stocked with red pine volunteers and beech/cherry sprouts. East parts were merged into stand 85 to include in a clearcut/replant treatment.																																																						
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<b>92</b>	4130 - Aspen	Sapling Well	12.4	16	Immature	N/A	Stand was clearcut in 2006. Scattered residual pole-sized white pine and red oak. Dense bracken fern ground cover with blackberry.																																																						
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<b>94</b>	4130 - Aspen	Sapling Well	7.1	6	Immature	N/A	Clearcut with scattered residual white pine and hardwoods, April 2016. NE lobe is sparsely stocked, otherwise well stocked.																																																						
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