



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61022

Entry Year 2024

Acreage: 1,647

County Benzie

Management Area: Benzie Outwash

**Stand Examiner:** Craig Allen

### Legal Description:

Colfax Township T25N- R13W; Sections 4, 5, 6, 7, 8, 9, 16, 17, 18 in Benzie County.

### Identified Planning Goals:

Compartment 22 is a 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, including the Betsie River which is a designated natural river; 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 improving the age-class distribution of aspen and red pine. Northern hardwoods management includes continued selective or regeneration harvesting of northern hardwoods to achieve an uneven age-class structure or 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. Expected trends in this 10-year planning period are increased recreational pressure on recreational trails and introduced insect and disease concerns, especially emerald ash borer and beech bark disease.

### Soil and topography:

The topography is mostly level with some rolling hills in sections 4, 5, and 8. The upland soils consist of Leelanau, Emmet, and Kalkaska. The lowlands consist of Roscommon, Au Gres, and Coswell soils.

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

The compartment is broken into four main blocks of State land. The surrounding private lands contain some residences, but the land is mostly undeveloped. The land surrounding the compartment is mostly solid blocks of State ownership, consisting of upland types except to the south where there are some areas of lowland hardwoods.

### Unique Natural Features:

The Betsie River is a "Michigan Natural River" that flows through sections 9, 16 and 17 of this compartment.

### Archeological, Historical, and Cultural Features:

There are no known Archeological/cultural sites within the compartment, although there are a few old homestead sites in this area.

### Special Management Designations or Considerations:

Protecting the vegetative cover on the banks of the Betsie River, and the encouragement of long lived species near the river will be a priority. Visual management will be important along snowmobile trails.

### Watershed and Fisheries Considerations:

The Betsie River flows through Compartment 22. The Betsie River is a Designated Trout Stream, and is a designated "Natural River". This river has excellent fishing for chinook salmon, coho salmon, steelhead, and brown trout.

### Wildlife Habitat Considerations:

This compartment lies entirely within a broad, flat outwash plain which covers almost ½ of Benzie County. This is a particularly wildfire prone and fire driven landscape, occupied in presettlement times by jack pine forests, oak and pine barrens, mixed pine forests, and beech-maple in more successional advanced areas. As there are few natural fire breaks (ridges, floodplains) upwind, this compartment must have been particularly subject to relatively frequent, intense burns, especially north of the Betsie River. An exception is the small moraine area in the northeast corner of the compartment, which probably was and still is dominated by northern hardwood forest. Consequently, wildlife adapted to this dynamic landscape will benefit from maintenance of early successional forest via timber harvesting which mimics the effects of wildfire. Harvesting small to medium stands of jack pine and aspen, and small patches within hardwood stands, will produce suitable habitat for chestnut-sided warbler, ruffed grouse, brown thrasher, deer, red fox, red-tailed hawk, and brown snake. Such cutting should incorporate a variety of leave trees (especially adjacent to wetlands), snags, and down logs for within-stand habitat diversity. Grass and brush openings should be maintained, preferably with fire, for species such as badger, wild turkey, eastern bluebird, meadow vole, cedar waxwing, American kestrel, and green snake. Larger openings in section 16 could be rotationally burned or enhanced by

reducing the bracken and planting herbaceous ground cover.

The hardwood stands on the small moraine in section 4 should be maintained in hardwoods. Treatments should be planned to maintain tree species and size diversity, cavity trees, vertical structure, and a steady supply of down logs. Species such as wood frog, white-breasted nuthatch, red-bellied woodpecker, and gray squirrel will benefit. There is also a history of nesting raptors in these hardwood ridges.

Poorly drained areas just southeast of the moraine have been harvested in small blocks in the past to create grouse habitat. Some of these have not regenerated well. Cuttings in the lowland deciduous forest should be limited to small patch cuts mimicking wind throws.

Red pine and spruce plantations throughout the compartment can be improved for wildlife through thinning, which will allow more species and structural diversity. Forest along the Betsie River should be managed for long lived species including a conifer component to provide habitat for riparian wildlife and protect the water quality and scenic values along the river.

Compartment 22 in section 16 east of Long Road is part the Little Betsie River Grouse Enhanced Management Site (GEMS). GEMS are designated areas that are intensively managed for upland gamebirds like grouse and woodcock, predominately walk-in access, and located across the northern Lower and Upper Peninsulas. The areas are called GEMS - Grouse Enhanced Management System, and are managed for young forests, primarily aspen. Primary management is for aspen with a shortened rotation age (40 years versus 60 years). Most old logging roads are gated and maintained to provide well managed grouse habitat with walk-in access for hunters.

### **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. (Peter Rose, DNR Geologist, 2/14/22).

### **Vehicle Access:**

There are good gravel and paved county roads throughout this compartment, offering very good and easy access to State lands. There are also many forest "2-track" roads in various areas of the compartment that are in good condition and are used for public and land management accessibility.

### **Survey Needs:**

There may be survey needs in section 4 to help establish private corners for timber sale operations.

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

The state snowmobile trail meanders through section 16. The Betsie River provides fishing and kayaking opportunities. Hunting, trapping, and dispersed camping are popular recreational activities throughout the compartment.

### **Fire Protection:**

This area has wildfire protection through coordinated efforts of DNR and local Fire Departments.

### **Additional Compartment Information:**

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

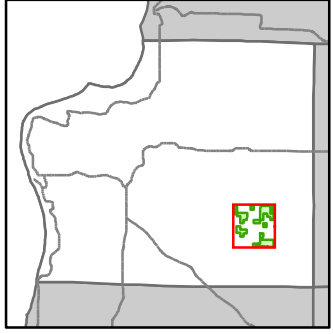
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

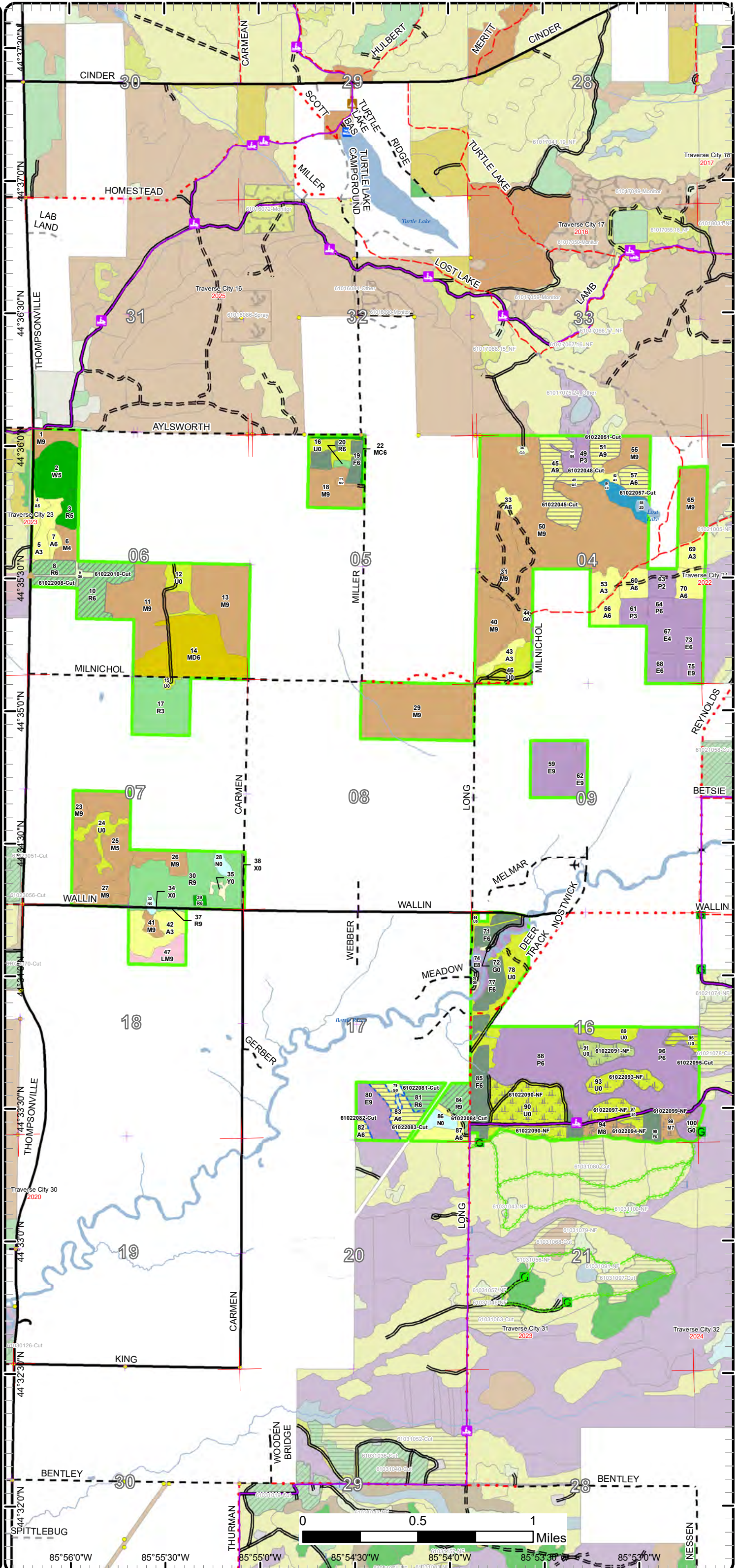
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 22  
 T25N, R13W, Sec. 4-9, 16-18  
 County: Benzie  
 Unit: Traverse City  
 Mgmt Area: Benzie Outwash  
 YOE: 2024  
 Acres: 1646.5 GIS Calculated  
 Examiner: Craig Allen  
 Map Revised: 10/17/2022  
 Map Phase: Post Review

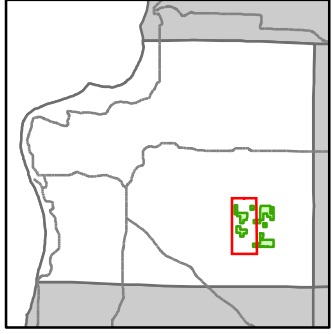


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hunter Walking Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ✈ Airport
- ▲ Berms
- ⬢ Gate
- ✕ Bridges
- Culvert
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil

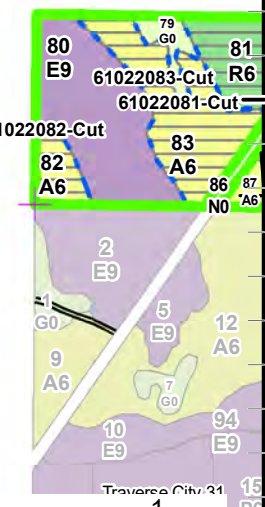
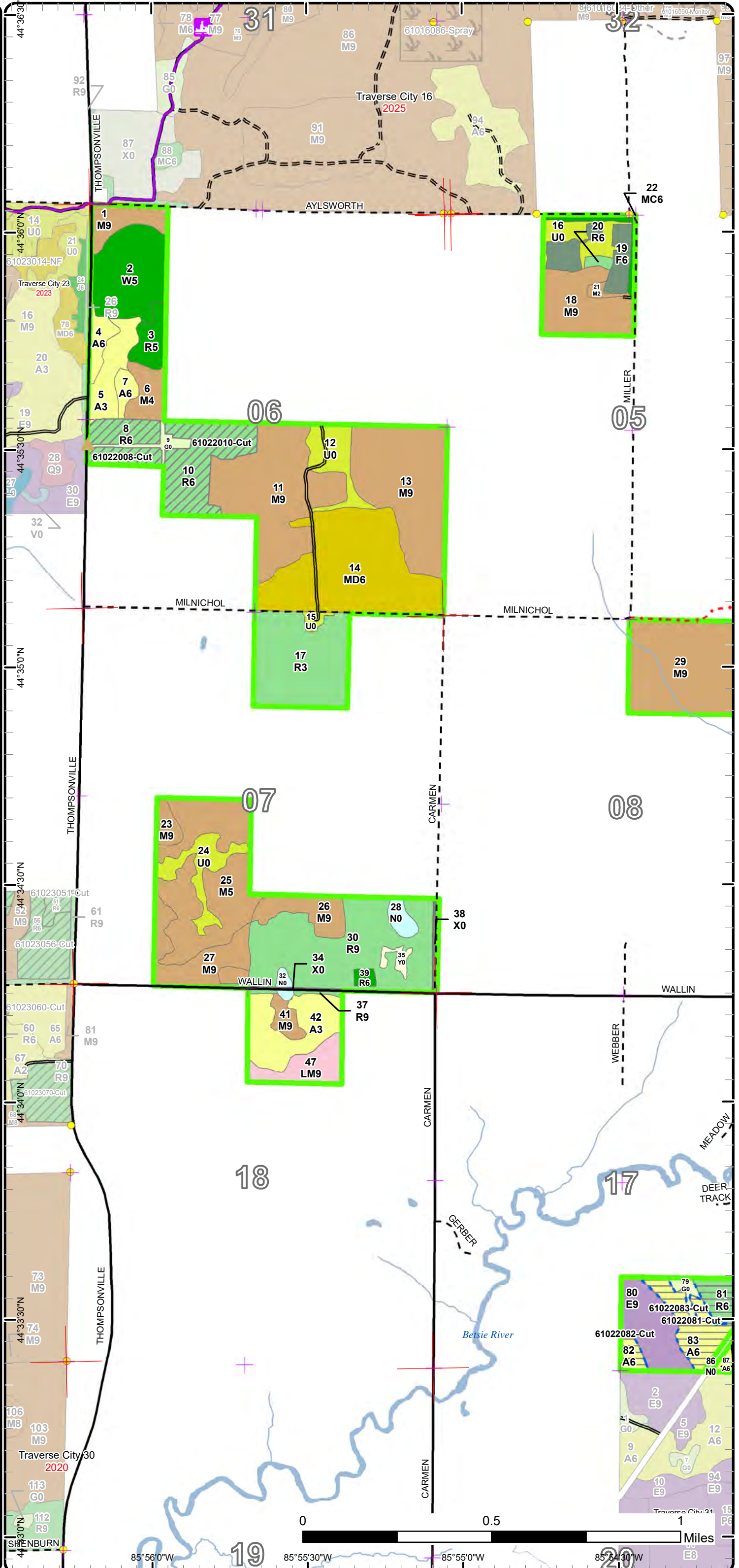


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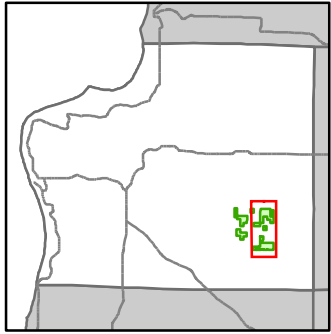


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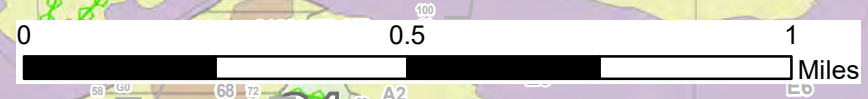
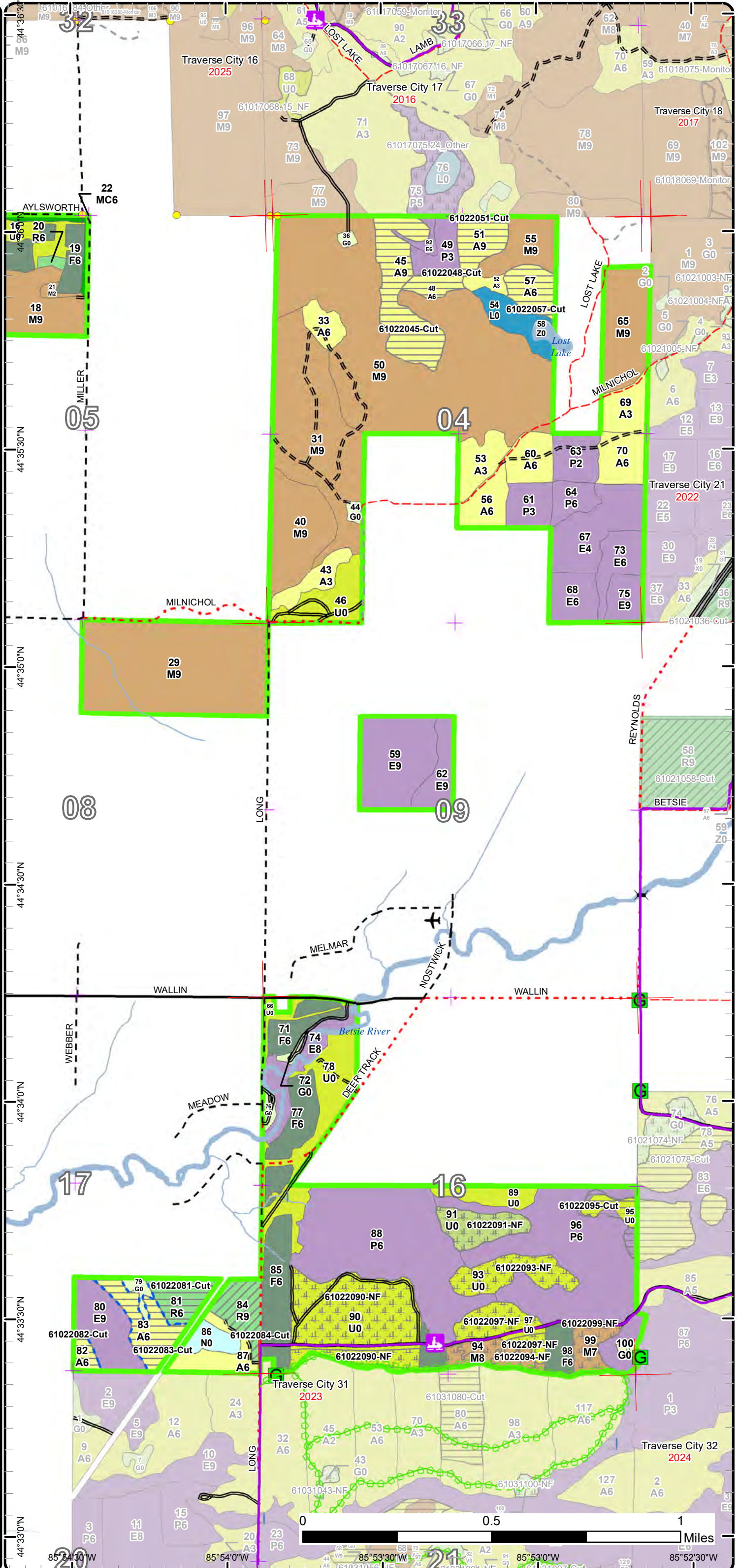


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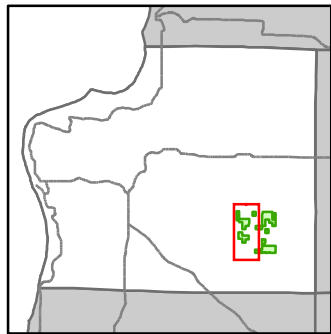
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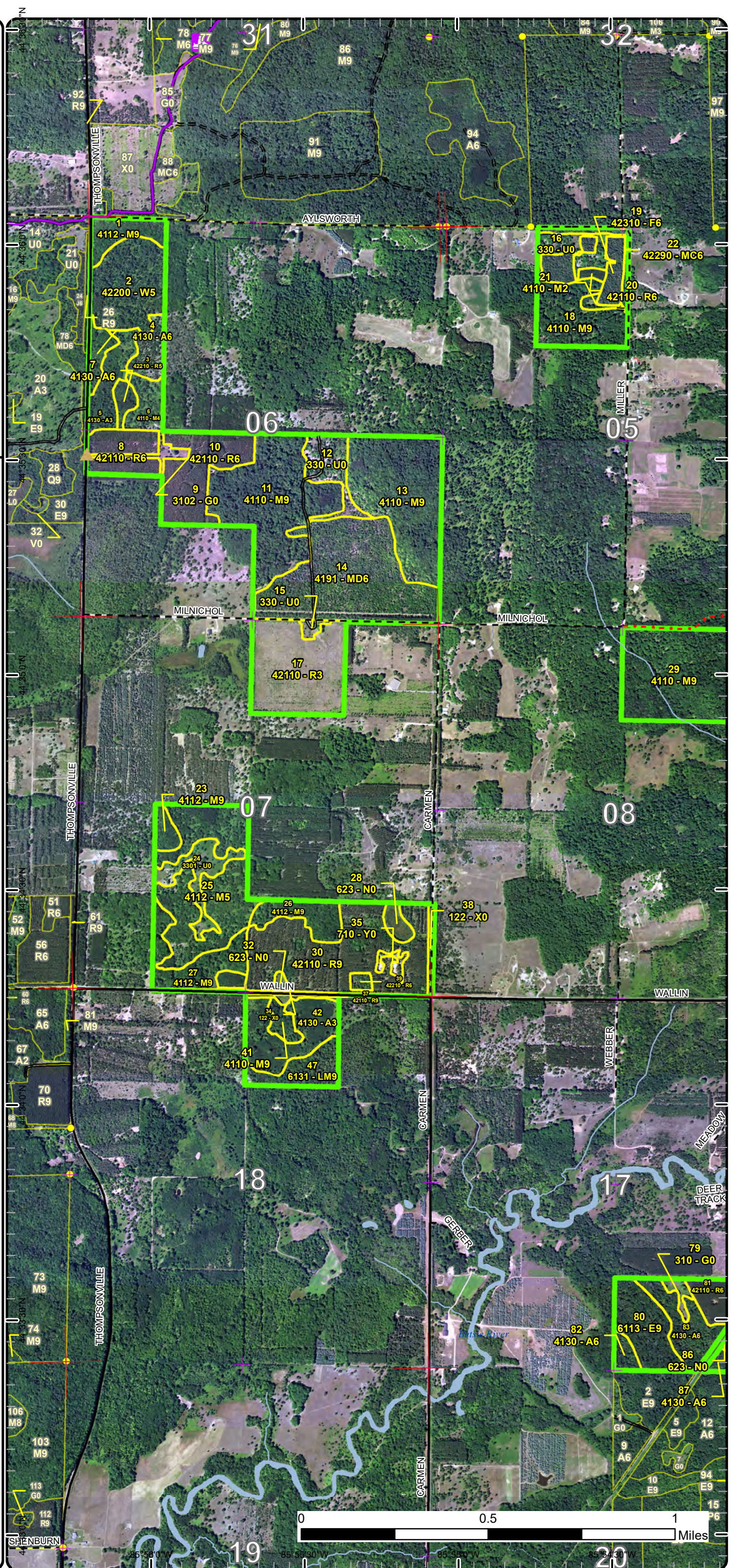
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# Stand Boundary Map

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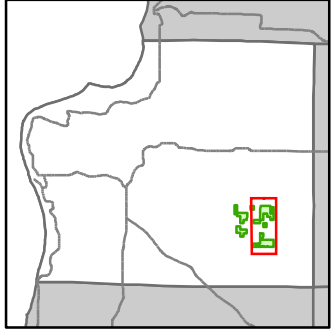


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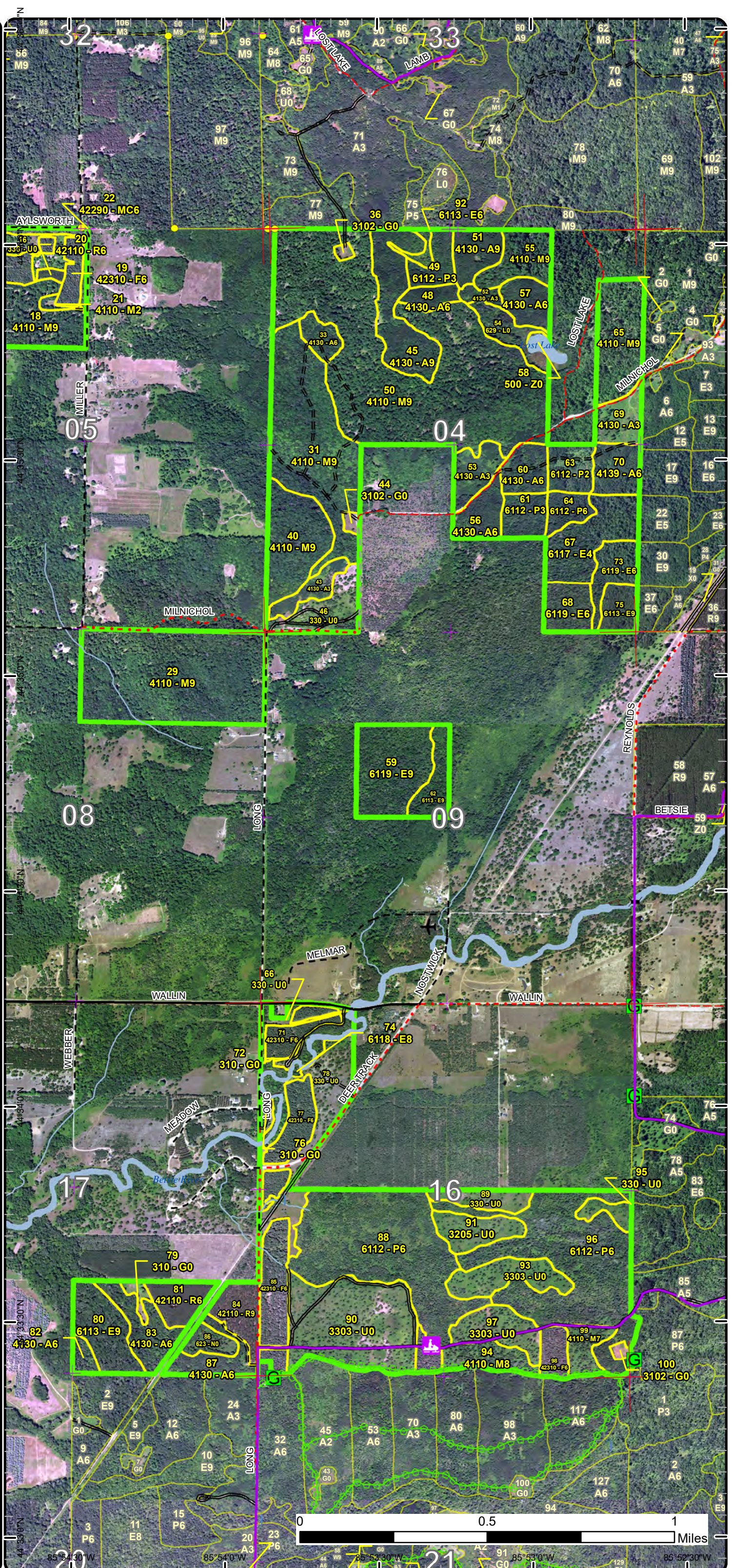


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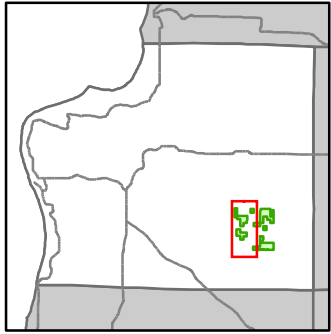
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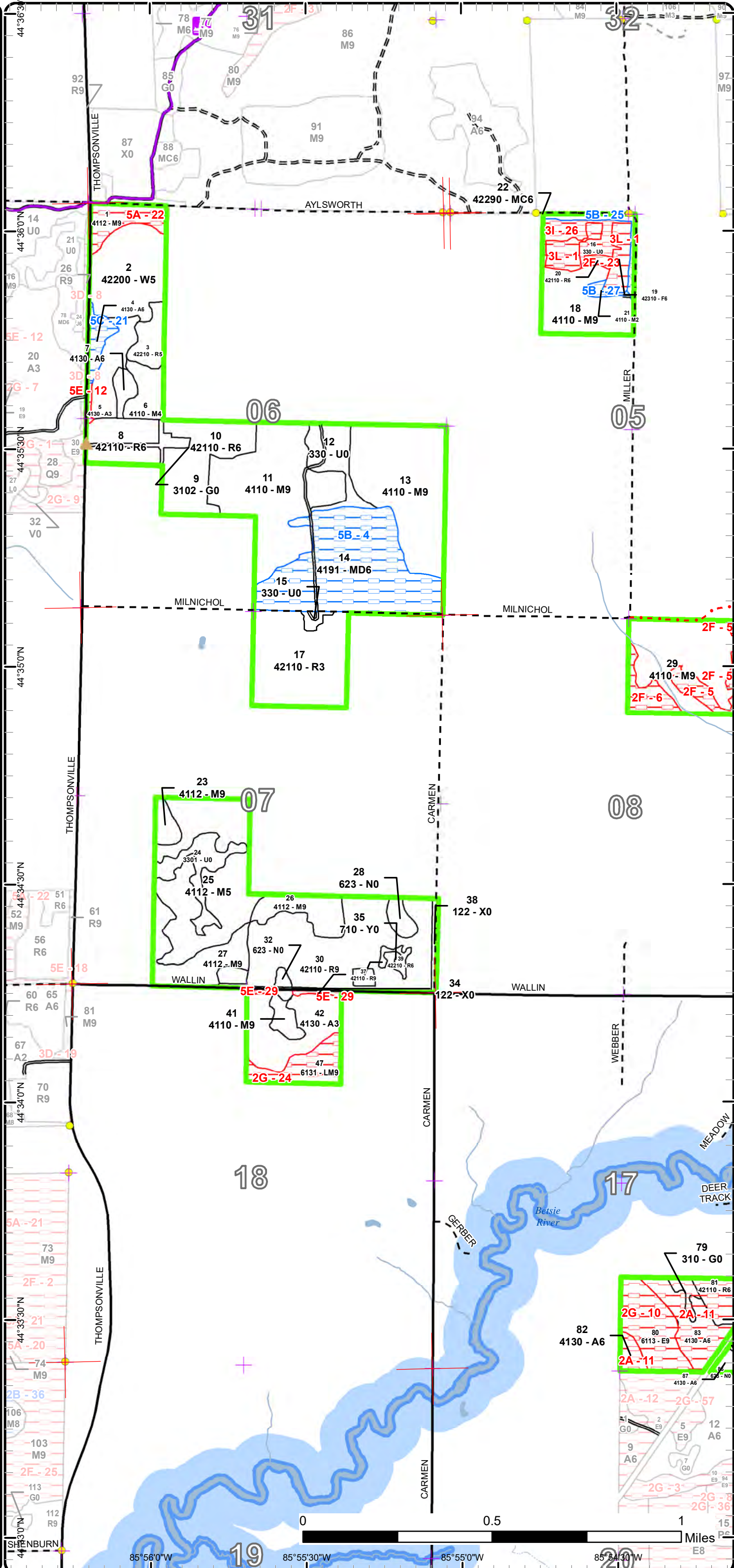


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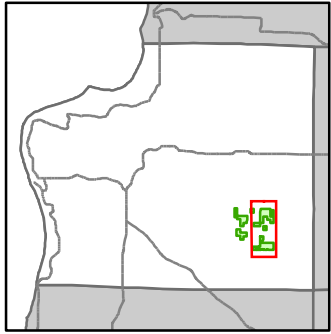


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- Berms
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes

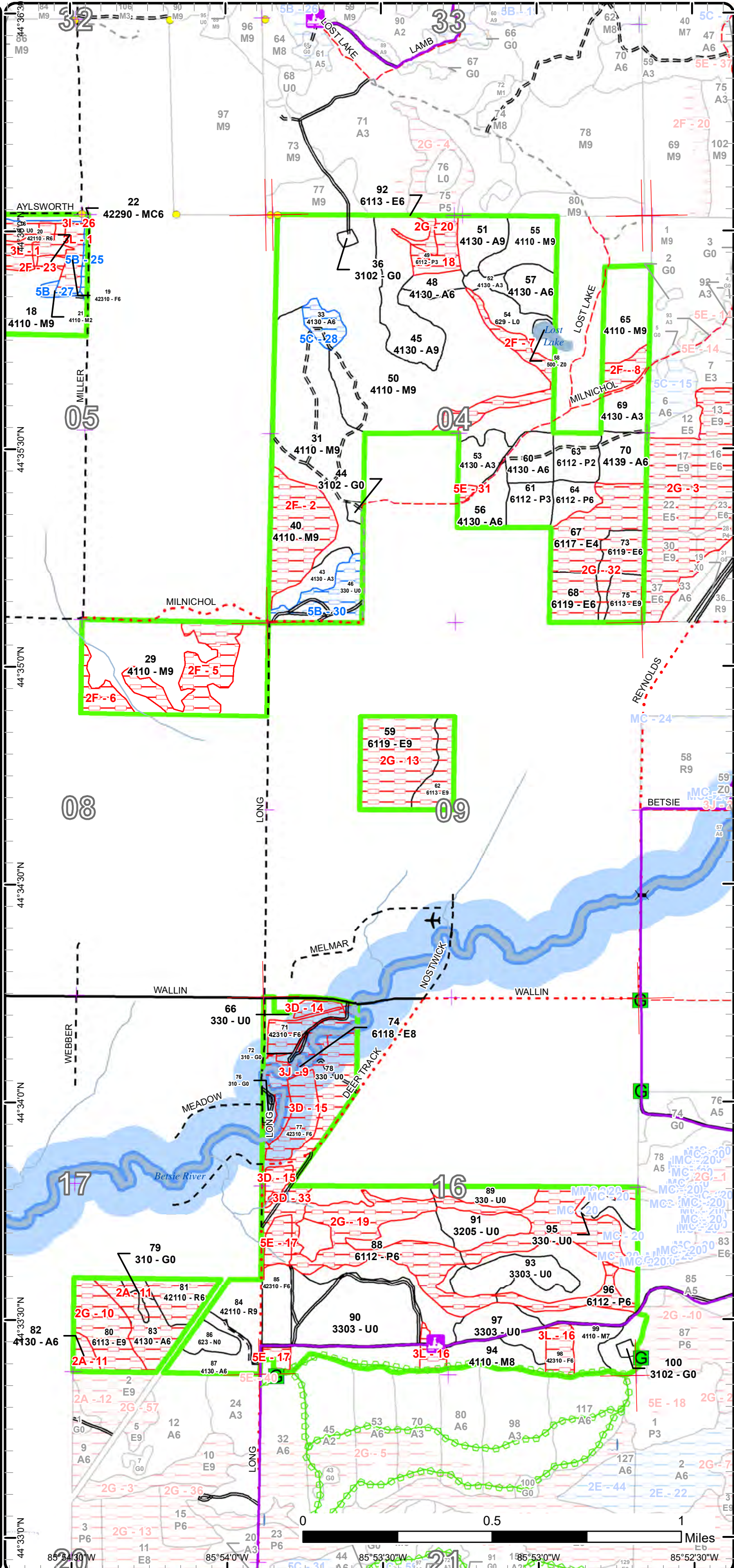


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Report 1 – Total Acres by Cover Type and Age Class



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	10	51	3	14	56	32	9	14	0	0	0	0	0	0	0	0	0	189
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Low-Density Trees	171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	171
Lowland Aspen/Balsam Poplar	0	0	0	27	73	82	0	0	0	0	0	0	0	0	0	0	0	0	182
Lowland Deciduous	0	0	0	0	21	0	3	0	0	62	14	26	0	0	0	0	0	0	125
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	60
Natural Mixed Pines	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	58	0	0	0	18	10	171	261	75	0	0	0	0	0	593
Red Pine	0	0	39	0	2	7	1	61	57	0	0	0	0	0	0	0	0	0	167
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Spruce/Fir	0	0	0	0	0	0	12	51	0	0	0	0	0	0	0	0	0	0	63
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	28
<b>Total</b>	<b>226</b>	<b>10</b>	<b>90</b>	<b>30</b>	<b>168</b>	<b>145</b>	<b>48</b>	<b>125</b>	<b>177</b>	<b>72</b>	<b>185</b>	<b>299</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1649</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2024

Acres of Harvest

Compartment 22  
Total Compartment Acres: 1,647

Commercial Harvest - 110  
Harvests with Site Condition - 28  
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	69	0	0	0	0	0	0	0	0	69
Low-Density Trees	7	0	0	0	0	0	0	0	0	7
Red Pine	10	0	0	0	0	51	0	0	0	61
<b>Total</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>138</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	138	0	0	0	0	0	1	101		240
Next Step	0	10	10	0	0	76	0	7		104
<b>Total</b>	<b>138</b>	<b>10</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>76</b>	<b>1</b>	<b>108</b>		<b>344</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:**

<b>8</b>	<b>61022008-Cut</b>	13.8	42110 - Planted Red Pine	Poletimber Well	66	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Lightly thin stand by select marking individual trees to harvest. Goal for residual basal area of 120 to no less than 110 (which is less than 1/3 of current basal area). Primarily focus on marking poor form, suppressed, defect trees then mark others allowing to thin to target BA and keep even spacing throughout plantation as much as possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2023</p>											

<b>10</b>	<b>61022010-Cut</b>	25.9	42110 - Planted Red Pine	Poletimber Well	66	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Lightly thin stand by select marking individual trees to harvest. Goal for residual basal area of 120 to no less than 110 (which is less than 1/3 of current basal area). Primarily focus on marking poor form, suppressed, defect trees then mark others allowing to thin to target BA and keep even spacing throughout plantation as much as possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2023</p>											

<b>45</b>	<b>61022045-Cut</b>	25.9	4130 - Aspen	Sawtimber Well	50	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all aspen, red maple, cherry, beech, ironwood to regenerate and expand aspen. Leave any oak, sugar maple and conifers. Mark to leave any large unique maple or other tree for diversity. Possible leave retention around low, wet area(s). Use drumming log spec in sale.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, maple, cherry,</p> <p><u>Other Comment:</u> Road leading in to stand will need repair due to many mudholes. Re-install road block that was breached near opening (stand #36) after harvest complete.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2023</p>											



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
48	61022048-Cut	5.4	4130 - Aspen	Poletimber Well	41	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all hardwoods to regen and expand aspen. Leave all oak, sugar maple and conifers. Mark some scattered large red maple to leave (if available). No other retention due to small size. Apply drumming log spec to sale.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, cherry, sugar maple</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
51	61022051-Cut	10.2	4130 - Aspen	Sawtimber Well	41	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwoods to regen and expand aspen. Leave any oak and conifers. possible mark a few leave maple if big and unique.</p> <p><u>Specs:</u> Otherwise, no other retention due to small size. Apply drumming log spec to sale.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, cherry, oak,</p> <p><u>Regen:</u></p> <p><u>Other</u> Road leading in to stand will need repair due to many mudholes</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
57	61022057-Cut	9.8	4130 - Aspen	Poletimber Well	41	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwoods to regen and expand aspen. Leave all conifers and oak. Mark some leave trees of large/unique maple for diversity.</p> <p><u>Specs:</u> Also, possible retention can be left along edge of L-type stand 54 to south. Apply drumming log spec to sale.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, cherry, oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
81	61022081-Cut	10.1	42110 - Planted Red Pine	Poletimber Well	66	171-200	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Due to lack of access pine stand has not been able to be thinned at proper intervals to maintain healthy stand. So now need to Final harvest all red pine. Trench and Re-plant to red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> If gain access to stand then can apply treatements.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Denied Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>82</b>	<b>61022082-Cut</b>	3.5	4130 - Aspen	Poletimber Well	62	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Harvest all hardwoods to regenerate and expand aspen. No retention due to small size of stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, cherry, oak

Regen:

Other Can harvest if ever get access to stand.

Comment:

Site Condition Denied Access

Proposed Start Date: 10/1 /2023

<b>83</b>	<b>61022083-Cut</b>	14.2	4130 - Aspen	Poletimber Well	72	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all hardwoods to regenerate and expand aspen. Retain any oak, sugar maple or conifer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, cherry, oak

Regen:

Other Harvest if get access

Comment:

Site Condition Denied Access

Proposed Start Date: 10/1 /2023

<b>84</b>	<b>61022084-Cut</b>	11.6	42110 - Planted Red Pine	Sawtimber Well	66	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Lightly thin stand by select marking individual trees to harvest. Goal for residual basal area of 120 to no less than 110 (which is less than 1/3 of current basal area). Primarily focus on marking poor form, suppressed, defect trees then mark others allowing to thin to target BA and keep even spacing throughout plantation as much as possible.

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>90</b>	<b>61022090-NF</b>	47.1	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
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Prescription 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. Could also work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. Concentrate some of the shrub and tree planting along the north side of the hunting trail and both sides of the snowmobile trail for a living hedge, to prevent vehicle access into the GEMS, and snow retention on the snowmobile trail.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>91</b>	<b>61022091-NF</b>	11.5	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
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Prescription 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. Could also work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. Concentrate some of the shrub and tree planting around herbaceous plantings and access trails.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>93</b>	<b>61022093-NF</b>	14.8	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
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Prescription 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. Could also work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. Concentrate some of the shrub and tree planting around herbaceous plantings and access trails.

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>94</b>	<b>61022094-NF</b>	7.4	4110 - Sugar Maple Association	Sawtimber Medium	70	1-50	NonForestMgt	Fruit Tree/Shrub Planting	330 - Low-Density Trees	No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Could also work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. Concentrate some of the shrub and tree planting along the north side of the hunting trail and both sides of the snowmobile trail for a living hedge, to prevent vehicle access into the GEMS, and snow retention on the snowmobile trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

<b>95</b>	<b>61022095-Cut</b>	7.2	330 - Low-Density Trees	Nonstocked		Unspec ified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged No
<p><u>Prescription</u> Clearcut stand to regenerate and expand aspen. Long term retention in drainage areas as outlined by site condition layer. Mark to leave any unique large red maple and/or cherry. Also, leave all conifers. Leave any oak that may be present. Add drumming log spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Brush Cutting; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, cherry</p> <p><u>Regen:</u></p> <p><u>Other</u> This area is being harvested now to go along with adjacent harvest to the east in compartment 21 for access purposes.</p> <p><u>Comment:</u> Maintain stands 95 and 81 as non-forested stands post timber harvest. See notes in Treatment Lineage.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

<b>97</b>	<b>61022097-NF</b>	12.5	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Could also work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. Concentrate some of the shrub and tree planting around herbaceous plantings and access trails.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
99 61022099-NF	7.8	4110 - Sugar Maple Association	Sawtimber Poor	70	1-50	NonForestMgt	Fruit Tree/Shrub Planting	330 - Low-Density Trees		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Could also work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.</p> <p>Concentrate some of the shrub and tree planting along the north side of the hunting trail and both sides of the snowmobile trail for a living hedge, to prevent vehicle access into the GEMS, and snow retention on the snowmobile trail.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
100 61022100-Other	1.2	3102 - Grass	Nonstocked		Unspecified	Other	Other	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Could plant some shrubs and mast producing trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> This is an old well site that is now used as a parking area for the GEMS and a log landing for harvest operations.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

**Total Treatment** 239.9  
**Acreage Proposed:**

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 22

Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions												
		With Condition				5B	5C	MC	2A	2F	2G	3D	3I	3J	3L	5A	5E	
188	157	11		20	Aspen		11		18	0	0							2
13	10	0		2	Herbaceous Openland				2					0				
171	120	15		36	Low-Density Trees	15		0		0		28	8					
183	98	1		84	Lowland Aspen/Balsam Poplar			1			84							
125	0	0		125	Lowland Deciduous				0		111			14				
12	0	0		12	Lowland Mixed Forest						12							
9	9	0		0	Lowland Shrub													
11	11	0		0	Marsh													
60	0	60		0	Mixed Upland Deciduous	60												
4	0	4		0	Natural Mixed Pines	4												
593	509	2		83	Northern Hardwood	2				73							10	
168	155	0		13	Red Pine	0			10	1								1
2	2	0		0	Sand, Soil													
11	11	0		0	Upland Shrub													
63	10	0		53	Upland Spruce/Fir							23				22		8
5	5	0		0	Urban													
2	2	0		0	Water													
28	28	0		0	White Pine													
1,648	1,127	94		427	Total Forested Acres	81	11	1	30	75	207	51	8	14	22	10		11
	68%	6%		26%	Relative Percent													

\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3L: Other wildlife concerns	12	5B: Maintain for regeneration purposes	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2F: Too steep	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> very steep hills...too steep for logging activity.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 22

Year of Entry: 2024

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	120	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Available	5B: Maintain for regeneration purposes	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> allowing hardwood understory regen to nurse-up through the overstory jackpine. Allow jack pine to fall out of stand overtime.							
5	Unavailable	2F: Too steep	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	2F: Too steep	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2F: Too steep	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is stand that is the Betsie River and its floodplain corridor. A Natural River system. Vegetative setbacks.							

**Report 4 – Site Conditions**

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 22

Year of Entry: 2024

10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	2A: Adjacent landowner denied access	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand has not been inventoried due to landlocked by private lands. Not sure if a harvest prescription is needed							
14	Unavailable	3D: Recreational / Scenic values	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	3D: Recreational / Scenic values	14	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Traverse City Mgt. Unit  
 Craig Allen : Examiner

Compartment: 22  
 Year of Entry: 2024

16	Unavailable	3L: Other wildlife concerns	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	8	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	75	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 22

Year of Entry: 2024

22	Unavailable	5A: Not able to obtain desirable regeneration	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	Unavailable	(Inactive)3I: Historical / archeological (add locked comments)	8	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Available	5B: Maintain for regeneration purposes	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Hardwood saps invading edges. Allow continued natural seeding in of the area to hardwoods. Also some natural seeding in of spruce trees from adjacent plantation are welcome diversity addition.							

**Report 4 – Site Conditions**

Traverse City Mgt. Unit  
 Craig Allen : Examiner

Compartment: 22  
 Year of Entry: 2024

28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	Unavailable	5E: Long-Term Retention	1	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	51	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	Unavailable	3D: Recreational / Scenic values	28	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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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**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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.5	85	111-140	N/A																																						
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2	42200 - Natural White Pine	Poletimber Medium	27.8	71	51-80	N/A	Red maple cut out of stand in Dec.2004.																																					
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3	42210 - Natural Red Pine	Poletimber Medium	7.3	45	51-80	N/A	nice young natural red pine stand. slowly filling in gaps with pine regen																																					
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5	4130 - Aspen	Sapling Well	11.8	18	Unspecified	N/A	Was clearcut in Dec.2004. for regen and expansion of aspen. Some scattered white pine pole and saw log trees were retained.																																					
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9	3102 - Grass	Nonstocked	3.3		Unspecified	No																																													
10	42110 - Planted Red Pine	Poletimber Well	25.9	66	141-170	N/A	Was row thinned in 1994. Was thinned again in spring 2006.																																												
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11	4110 - Sugar Maple Association	Sawtimber Well	52.2	111	81-110	N/A	Stand was thinned in 1947, 1978 and most recently in Spring of 2005. Medium quality Hardwoods. Better quality located middle to west.																																												
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12	330 - Low-Density Trees	Nonstocked	11.7		Unspecified	No	transitioning to stocked forested stand of mix species hardwood and conifers.																																												
13	4110 - Sugar Maple Association	Sawtimber Well	47.5	95	81-110	N/A	Stand had TSI commercial cut in 1978. Then, 35 acres were thinned in 1997. Hilly, many multi-stems,																																												
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14	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	60.4	72	1-50	N/A	Allow jack pine overstory to naturally fall out of stand to let hardwood understorey to continue to nurse in and takeover the stand. Getting quite a bit of windthrow and dieoff of jack pine overstorey.																																												
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17	42110 - Planted Red Pine	Sapling Well	38.8	11	Immature	N/A	Stand has been trenched and will be hand-planted by contract to red pine seedlings in spring of 2012. On 9/6/2013 stand was treated with herbicide due to unsatisfactory regen survey determined previous planting was a failure. Site will be replanted in spring of 2014 TSI not recommended because of poor red pine survival in southern half of stand. This stand has been updated from a field evaluation for a project on free to grow red pine.																																								
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18	4110 - Sugar Maple Association	Sawtimber Well	22.6	115	81-110	N/A	Select thinned in Sept. 2013 Commercial TSI cut in 1977																																								
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19	42310 - Planted Spruce	Poletimber Well	11.6	59	51-80	N/A																																									
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20	42110 - Planted Red Pine	Poletimber Well	1.4	52	51-80	N/A																																									
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21	4110 - Sugar Maple Association	Sapling Medium	1.5	35	1-50	N/A																																									
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22	42290 - Natural Mixed Pine	Poletimber Well	4.3	65	1-50	N/A																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.0	100	81-110	N/A																																					
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24	3301 - Low Density Deciduous Trees	Nonstocked	10.9		Unspecified	No																																					
25	4112 - Maple, Beech, Cherry Association	Poletimber Medium	48.2	38	51-80	N/A	Was cut in 1984.																																				
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26	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.1	100	81-110	N/A	variable volume density																																				
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27	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.5	90	81-110	N/A	Lots of multi-stems. Also has a few mature beech																																				
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28	623 - Emergent Wetland	Nonstocked	3.6		Unspecified	No																																					
29	4110 - Sugar Maple Association	Sawtimber Well	77.9	90	81-110	N/A	Due to terrain and access...43 acres of the stand were thinned in fall of 2014. Very hilly in some areas. some quite steep.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
30	42110 - Planted Red Pine	Sawtimber Well	56.1	73	141-170	N/A	Was thinned in Feb. of 2005.																																									
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31	4110 - Sugar Maple Association	Sawtimber Well	58.8	100	81-110	N/A	Has some steep slopes																																									
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32	623 - Emergent Wetland	Nonstocked	1.7		Unspecified	No																																										
33	4130 - Aspen	Poletimber Well	5.9	52	Unspecified	N/A	Also has a trace of oak																																									
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34	122 - Road/Parking Lot	Nonstocked	2.8		Unspecified	No	Milnichol road																																									
35	710 - Sand, Soil	Nonstocked	1.9		Unspecified	No																																										
36	3102 - Grass	Nonstocked	1.1		Unspecified																																											
37	42110 - Planted Red Pine	Sawtimber Well	1.3	73	81-110	N/A	small strip of trees left along Wallin road. and adjacent cut.																																									
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Sub-Canopy Species	Density	Avg. Height	Size																																													
Sugar Maple	Low	Variable	Sapling																																													
38	122 - Road/Parking Lot	Nonstocked	2.3		Unspecified	No	road corridor																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
39	42210 - Natural Red Pine	Poletimber Well	1.6	37	81-110	N/A																																					
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40	4110 - Sugar Maple Association	Sawtimber Well	26.3	100	111-140	N/A																																					
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41	4110 - Sugar Maple Association	Sawtimber Well	4.0	90	51-80	N/A	Was thinned in 2006.																																				
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42	4130 - Aspen	Sapling Well	21.6	16	Unspecified	N/A	Was clearcut in 2006 to regenerate and expand aspen component. Various trees retained out in sale area...mostly maple and some white pine a few red oak.																																				
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43	4130 - Aspen	Sapling Well	7.3	14	Unspecified	N/A	Clearcut in late summer early fall of 2008. Was cut to expand and regenerate aspen component.																																				
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44	3102 - Grass	Nonstocked	1.5		Unspecified	No																																					
45	4130 - Aspen	Sawtimber Well	25.9	50	Unspecified	N/A																																					
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Beech	Low	Variable	Sapling																																								
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Red Maple	Medium	Variable	Sapling																																								
46	330 - Low-Density Trees	Nonstocked	14.9		Unspecified	No																																					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**47** 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Well 11.8 100 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Log/Pole	13	100	Hemlock	Low	Variable	Pole
White Pine	20	XLog/Log/Pole	18		Hemlock	Low	< 5 feet	Sapling
Northern White Cedar	5	Pole/Log	8		Red Maple	Low	Variable	Sapling
Hemlock	30	Log/Pole	11		Balsam Fir	High	Variable	Sapling
					Balsam Fir	Medium	Variable	Pole
					White Pine	Low	Variable	Sapling

**48** 4130 - Aspen Poletimber Well 5.4 41 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	3	Pole	9		Sugar Maple	Low	Variable	Sapling
Red Maple	5	Pole	9	41	Ironwood	High	Variable	Sapling
Bigtooth Aspen	92	Pole	9	41				

**49** 6112 - Lowland Aspen Sapling Well 8.2 26 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	95	Sapling/Pole	4	26
Red Maple	5	Sapling/Pole	4	

**50** 4110 - Sugar Maple Association Sawtimber Well 147.0 100 81-110 N/A stand was thinned in fall of 2014. (very rainy fall)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	75	Log/Pole	14	100	Sugar Maple	Low	< 5 feet	Sapling
Basswood	20	Log/Pole	13	100	White Ash	Low	< 5 feet	Sapling
Beech	5	Log/Pole	15		Beech	High	< 5 feet	Sapling
					Ironwood	High	Variable	Sapling
					Sugar Maple	Medium	Variable	Pole

**51** 4130 - Aspen Sawtimber Well 10.2 41 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	82	Log/Pole	10	41	Sugar Maple	Low	Variable	Sapling
Red Maple	15	Log/Pole	10		White Ash	Low	Variable	Sapling
Black Cherry	3	Log/Pole	10		Ironwood	Medium	Variable	Sapling
					Red Maple	High	Variable	Sapling
					Black Cherry	Low	Variable	Sapling
					Beech	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	4130 - Aspen	Sapling Well	3.0	26	Unspecified	N/A	also contains some scattered red oak leave trees
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		25	Sapling/Pole	4	26		
Black Cherry		5	Sapling/Pole	4	26		
Bigtooth Aspen		70	Sapling/Pole	4	26		
53	4130 - Aspen	Sapling Well	10.0	14	Unspecified	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		15	Sapling/Pole	3	14		
Bigtooth Aspen		70	Sapling/Pole	3	14		
Black Cherry		15	Sapling/Pole	3	14		
54	629 - Mixed non-forested wetland	Nonstocked	9.5		Unspecified	No	
55	4110 - Sugar Maple Association	Sawtimber Well	13.7	100	81-110	N/A	Thinned in 1996
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Sugar Maple		90	Log/Pole	16	100		
Beech		5	Log/Pole	16			
Basswood		5	Log/Pole	14			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
White Ash		Low	Variable	Sapling			
Ironwood		High	Variable	Sapling			
Beech		High	Variable	Sapling			
56	4130 - Aspen	Poletimber Well	10.0	41	Unspecified	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black Cherry		15	Pole	7	41		
Quaking Aspen		70	Pole	7	41		
Red Maple		15	Pole	7	41		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Red Maple		Full	Variable	Sapling			
57	4130 - Aspen	Poletimber Well	9.8	41	Unspecified	N/A	steep slopes
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		20	Log/Pole	10	41		
Bigtooth Aspen		80	Log/Pole	10	41		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Beech		Low	Variable	Sapling			
Black Cherry		Low	Variable	Sapling			
Red Maple		High	Variable	Sapling			
White Ash		Low	Variable	Sapling			
58	500 - Water	Nonstocked	1.7		Unspecified	No	Lost Lake
59	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	28.9	80	Unspecified	N/A	Canopy species information is an estimate of what may possibly be there based on stands nearby and using imagery.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Northern White Cedar		15	Pole/Log	9			
Quaking Aspen		35	Pole/Log	8			
Red Maple		50	Log/Pole	11	80		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Red Maple		High	Variable	Sapling			
Red Maple		Medium	Variable	Pole			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
60	4130 - Aspen	Poletimber Well	9.7	41	Unspecified	N/A			
<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>
Quaking Aspen		40	Pole	6	41	Red Maple	High	Variable	Sapling
Bigtooth Aspen		40	Pole	7	41	Alder	Medium	Variable	Tall Shrub
Black Cherry		5	Pole	7					
Red Maple		15	Pole	7	41				
61	6112 - Lowland Aspen	Sapling Well	9.2	26	Unspecified	N/A			
<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 Maple		5	Sapling/Pole	4	26	Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen		95	Sapling/Pole	4	26	Tag Alder	High	Variable	Tall Shrub
62	6113 - Lowland Maple	Sawtimber Well	10.3	85	Unspecified	N/A	Stand canopy information is an estimate based on imagery and surrounding stands.		
<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 Maple		90	Log/Pole	10	90	Red Maple	High	Variable	Sapling
Northern White Cedar		10	Pole/Log	9					
63	6112 - Lowland Aspen	Sapling Medium	9.9	26	Unspecified	N/A			
<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 Maple		2	Sapling/Pole	4	26	Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen		98	Sapling/Pole	4	26	Tag Alder	High	< 5 feet	Tall Shrub
64	6112 - Lowland Aspen	Poletimber Well	7.0	41	Unspecified	N/A			
<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>
Quaking Aspen		90	Pole	7	41	Slippery Elm	Medium	Variable	Sapling
Red Maple		10	Pole	7	41	Black Ash	Medium	Variable	Sapling
65	4110 - Sugar Maple Association	Sawtimber Well	24.7	90	81-110	N/A			
<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>
Beech		1	Log/Pole	12		Sugar Maple	Medium	Variable	Pole
Basswood		19	Log/Pole	1		Beech	High	Variable	Sapling
Sugar Maple		80	Log/Pole	11	90				
66	330 - Low-Density Trees	Nonstocked	4.4		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**67** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Poor 22.7 85 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole	6		American Elm	Medium	Variable	Sapling
Red Maple	25	Log/Pole	10	85	Tag Alder	High	Variable	Tall Shrub
Quaking Aspen	10	Pole	7		Red Maple	Medium	Variable	Sapling
Balsam Fir	15	Pole	6					
Northern White Cedar	10	Log/Pole	1					
Slippery Elm	25	Pole/Log	8					

**68** 6119 - Mixed Lowland Deciduous Forest Poletimber Well 10.7 34 Unspecified N/A wet year round

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	6		Tag Alder	Medium	Variable	Tall Shrub
Northern White Cedar	5	Pole	7	34	Black Ash	Medium	Variable	Sapling
Slippery Elm	35	Pole	5	34	Red Maple	Medium	Variable	Sapling
Paper Birch	20	Pole	5	34	American Elm	Low	Variable	Sapling
Red Maple	35	Pole	5	34				

**69** 4130 - Aspen Sapling Well 9.8 8 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	3	Sapling	1	8
Bigtooth Aspen	72	Sapling	1	8
Red Maple	25	Sapling	1	8

**70** 4139 - Aspen, Mixed Deciduous Poletimber Well 10.8 41 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	3	Pole	6		Red Maple	High	Variable	Sapling
Red Maple	35	Pole	6	41	Balsam Fir	Low	Variable	Pole
Quaking Aspen	54	Pole	6	41				
Paper Birch	3	Pole	6					
Northern White Cedar	5	Pole/Log	9					

**71** 42310 - Planted Spruce Poletimber Well 8.9 61 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	100	Pole	8	61

**72** 310 - Herbaceous Openland Nonstocked 1.1 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
73	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	10.3	34	Unspecified	N/A																																																	
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74	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	14.2	95	1-50	N/A	Narrow corridor and banks along both sides of Betsie River. Some bur oak along river bank area east side of river in south end of stand.. and has had some natural regen around the area.																																																
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75	6113 - Lowland Maple	Sawtimber Well	7.6	101	111-140	N/A																																																	
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76	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified	No	used for Betsie river access and minimal camping/fishing																																																
77	42310 - Planted Spruce	Poletimber Well	14.2	61	51-80	N/A	Some nice natural spruce regen along outside edges. Rows less defined and trees more spaced apart than the spruce stand south of this one																																																
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78	330 - Low-Density Trees	Nonstocked	27.8		Unspecified	No																																																	
79	310 - Herbaceous Openland	Nonstocked	2.5		Unspecified	No																																																	
80	6113 - Lowland Maple	Sawtimber Well	18.1	101	Unspecified	N/A																																																	
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81	42110 - Planted Red Pine	Poletimber Well	10.1	66	171-200	N/A																																																	
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82	4130 - Aspen	Poletimber Well	3.5	62	Unspecified	N/A																																	
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83	4130 - Aspen	Poletimber Well	14.2	72	Unspecified	N/A																																	
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84	42110 - Planted Red Pine	Sawtimber Well	11.6	66	141-170	N/A	Row thinned in 1995.2nd thinning done in fall of 2015 (select mark approx 1/3 volume removed)..																																
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86	623 - Emergent Wetland	Nonstocked	5.6		Unspecified	No																																	
87	4130 - Aspen	Poletimber Well	10.4	36	Unspecified	N/A																																	
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88	6112 - Lowland Aspen	Poletimber Well	73.4	36	Unspecified	N/A	Also contains some scattered spruce and burr oak to save and keep in stand for diversity and mast production. (Oak = most are small dbh but a few mature)																																
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89	330 - Low-Density Trees	Nonstocked	8.1		Unspecified	No	This opening is part of a series of openings in the compartment. These were likely old farm homestead fields originally. Nice opening as is. Limited access and is adjacent to private property.																																
90	3303 - Mixed Low Density Trees	Nonstocked	50.2		Unspecified	No	This opening is part of a series of openings in the compartment. These were likely old farm homestead fields originally. Scattered trees are mostly multi-stem cherry. 5/5/22-This opening was prescribed for opening maintenance last inventory cycle to reduce the extent of bracken fern and establish herbaceous cover conducive to wildlife grazing and cover. SG																																



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91	3205 - Mixed Upland Shrub	Nonstocked	11.5		Unspecified	No	This opening is part of a series of openings in the compartment																																				
92	6113 - Lowland Maple	Poletimber Well	2.5	50	Unspecified	N/A																																					
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93	3303 - Mixed Low Density Trees	Nonstocked	14.8		Unspecified	No	This opening is part of a series of openings in the compartment. These were likely old farm homestead fields originally.																																				
94	4110 - Sugar Maple Association	Sawtimber Medium	10.4	70	1-50	N/A																																					
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97	3303 - Mixed Low Density Trees	Nonstocked	13.7		Unspecified	No	This opening is part of a series of openings in the compartment. These were likely old farm homestead fields originally.																																				
98	42310 - Planted Spruce	Poletimber Well	10.1	61	81-110	N/A	Originally planted for wildlife cover.																																				
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100	3102 - Grass	Nonstocked	1.2		Unspecified	Managed Opening																																					