



# Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61103

Entry Year 2025

Acreage: 1,564

County Kalkaska

Management Area: Kalkaska Sandy Moraines

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**Stand Examiner:** Steve Crigier

**Legal Description:**

T28N R6W, Sec 1, 11, 12, 23, 25, 26

**Identified Planning Goals:**

Maintain the health, structural integrity and diversity of the cover types that exist on the landscape. The compartment is dominated by aspen and hardwood timber types with some red pine plantations also. Through select cutting some of the hardwood stands we will maintain a healthy forest while growing better quality sawtimber. Amongst the aspen stands we will create some more age class diversity through final harvesting some stands. The compartment encompasses several lakes and ponds which will need to be appropriately buffered to maintain their unique natural features. The recreation trails will need to be properly addressed with the near by timber harvesting activities to provide a safe and enjoyable experience for its users.

**Soil and topography:**

The land in compartment 103 is mostly flat although there are a few areas with some rolling terrain in section 11. Most of the upland hardwood stands are on Kalkaska Sand or Island lake Loamy Sand. The majority of the compartment is on Island Lake Sand which is excessively drained.

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

Ownership around the compartment is mostly forested private property. The majority of the private property is used seasonally for recreation especially around the lakes. Forestry and oil and gas development are the more industrial uses of the land in and around the compartment.

**Unique Natural Features:**

None known.

**Archeological, Historical, and Cultural Features:**

**Special Management Designations or Considerations:**

None at this time.

**Watershed and Fisheries Considerations:**

Oxbow Lake lies within Compartment 103. Oxbow Lake also has bass and panfish, but is not heavily fished due to difficult access. BMPs should be followed for any cuts done near these lakes, and an appropriate buffer strip left. Woody debris is very important habitat for fish in inland lakes.

**Wildlife Habitat Considerations:**

The majority of this compartment lies in a pitted, outwash plain. Topography within this LTA is generally level to undulating with hills, ridges, and steep-sided ice-block depressions occurring locally. Soils are characterized by deep, excessively drained, acidic soils. This LTA shows a history of wildfires and less frequently, windfalls. Consequently, a variety of forest types and age classes were found, including: the entire spectrum of conifer dominated forests, jack pine and oak/pine savannas, to northern hardwoods in "fire shadow" areas. This area should continue to be managed to produce a variety of forest types and successional stages related to a fire prone community. Several upland brush types have been prescribed for burns or mechanical treatment to reduce encroachment of these habitat types. Timber prescriptions should be designed to incorporate leave trees and snags, as well as some downed logs, to mimic fire disturbance. Pine/aspen upland forests and open land habitats on outwash plains harbor species such as badger, wild turkey, hog-nosed snake, broad-winged hawk, red-backed salamander, pine warbler, American kestrel, and woodcock.

The SE portion of sec. 23 and the NE portion of sec. 26 lie on an ice contact ridge. The sandy soils found on these ridges have moderately low fertility and low available moisture. Even though much of this area was probably once covered with various northern hardwood communities, the dry soils did allow occasional wildfires on this landscape. Northern hardwood is still the dominant cover type with some aspen, pine, wetlands, and non-forested communities scattered throughout. Many wildlife species rely on small forest openings and upland shrub communities. These openings provide grassy nest

sites, plentiful seeds and insects, and cover. Examples of species include wild turkeys, northern flicker, eastern chipmunk, and blue racer. Upland shrub stands are important because they contain many berry-producing trees and shrubs.

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

There is no known metallic mineral potential in this part of the state. The nearest active sand/gravel pit is more than five miles away. There may be some potential for sand & gravel within the compartment, but development might be limited by the presence of energy industry facilities on the surface. The compartment is on the southern edge of the current extent of the Antrim Shale gas play. No Antrim production has occurred in the compartment and future Antrim wells are unlikely. There has been extensive exploration for and production from Silurian reefs in the area including within the compartment. There may be potential for additional reef discoveries beneath the compartment as well as potential for future underground gas storage and/or CO2 sequestration projects. The Cold Springs 1, Cold Springs 12, and Blue Lake gas storage fields overlap a portion of the compartment. Natural brine is being produced from a well just over one mile west, and there could be potential for additional brine production in the area. Nearly all State-owned mineral rights in the compartment are currently leased and held by production, and some surface rights are leased for gas storage purposes. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

### **Vehicle Access:**

The compartment has good vehicle access by paved county roads in the north 1/2 and good gravel roads throughout the southern portion (see map).

### **Survey Needs:**

Sections 1, 11 and 23.

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

The northern portion of this compartment contains no recreational facilities; however the southern portion contains Pickerel Lake State Forest Campground, the Michigan Cross-Country Cycle Trail (MCCCT), Kalkaska ORV trail and a section of the non-motorized North Country Hiking Trail. Proposed timber management activities should include trail protection specifications to reduce impacts, as well as serve as an example of how silviculturally sound timber harvesting practices can co-exist, and often improve recreation and hunting experiences for future generations. Treatments proposed directly adjacent to motorized trail treads should include either a “flush cut” specification, or be stumped high enough (3 feet) to avoid being hidden by perennial flora (ferns). Any forest treatments within Pickerel Lake State Forest Campground should include: collaboration with PRD to develop timber harvest plan; specifications that will lessen impacts on users during camping season (winter cut only); “short-log” requirement to lessen potential damage to campground infrastructure and desirable understory vegetation; slash management to reduce logging debris on campsites, removal of hazard trees; and “flush-cut” stump requirement to reduce tripping/vehicle hazards in concentrated use areas. (TMN 3/13)

### **Fire Protection:**

The compartment has good vehicle access through out the compartment which should help with response time to a fire in the area. The soils are also very shallow and the fuels are grass or leaf litter which should mean lead to short and fast burns. The ground is very level and is very workable for fire trucks and tractor plows. The near by lakes and ponds will provide water sources for the firefighters on the scene. There are lots of homes and seasonal residents around the compartment that will have to be defended in the event of a fire.

### **Additional Compartment Information:**

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

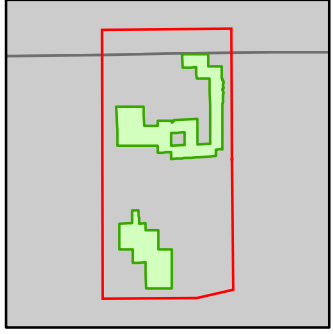
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

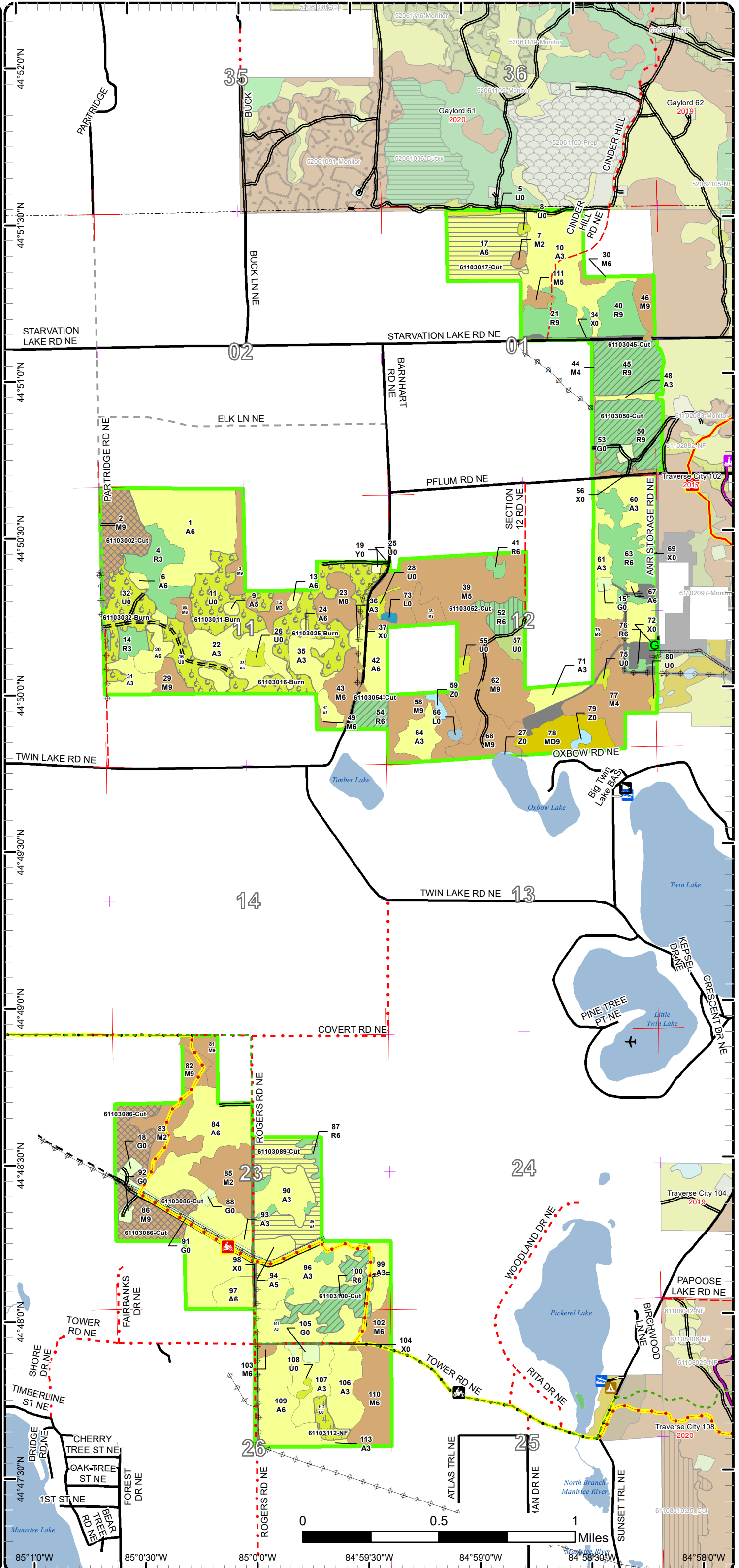
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 103  
 T28N-R6W, Sec 01,11,12  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Kalkaska Sandy Moraines  
 YOE: 2025  
 Acres: 1564.3 GIS Calculated  
 Examiner: Steve Crigier  
 Map Revised: 5/10/2023  
 Map Phase: Web-Post

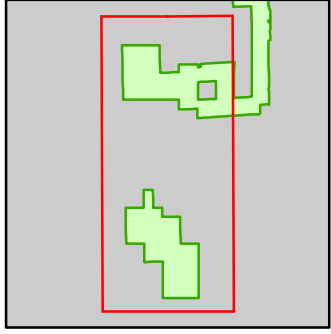


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
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- Private - Paved Road
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- ORV License & Trail Permit
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- Lakes and Rivers
- Toilet
- Airport
- Berms
- Gate
- Boating Access Site
- Bridges
- Campground
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 710 - Sand/Soil

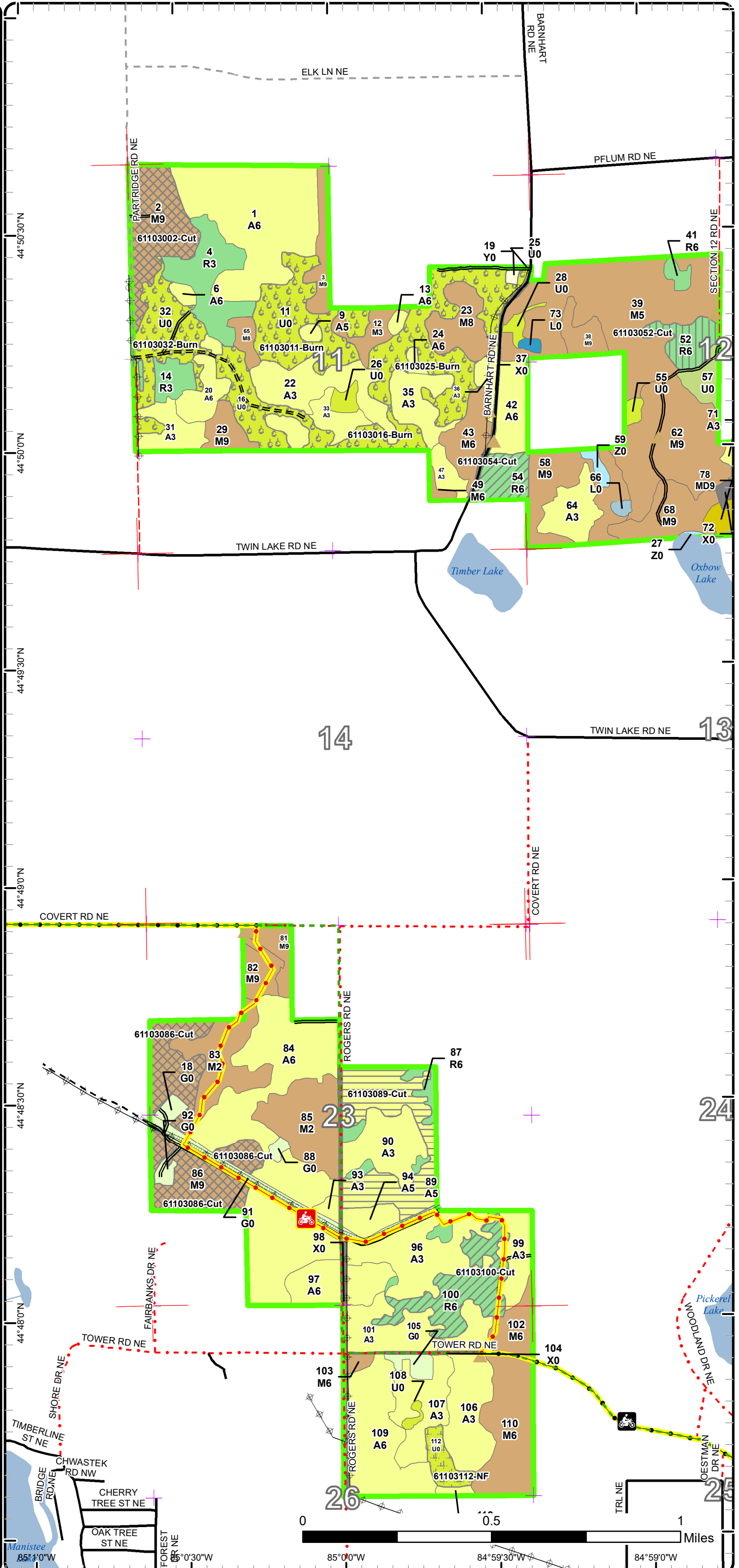


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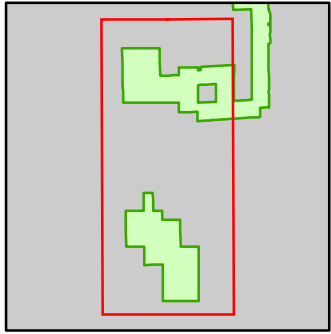
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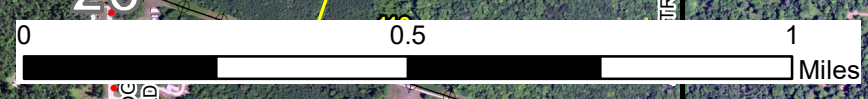
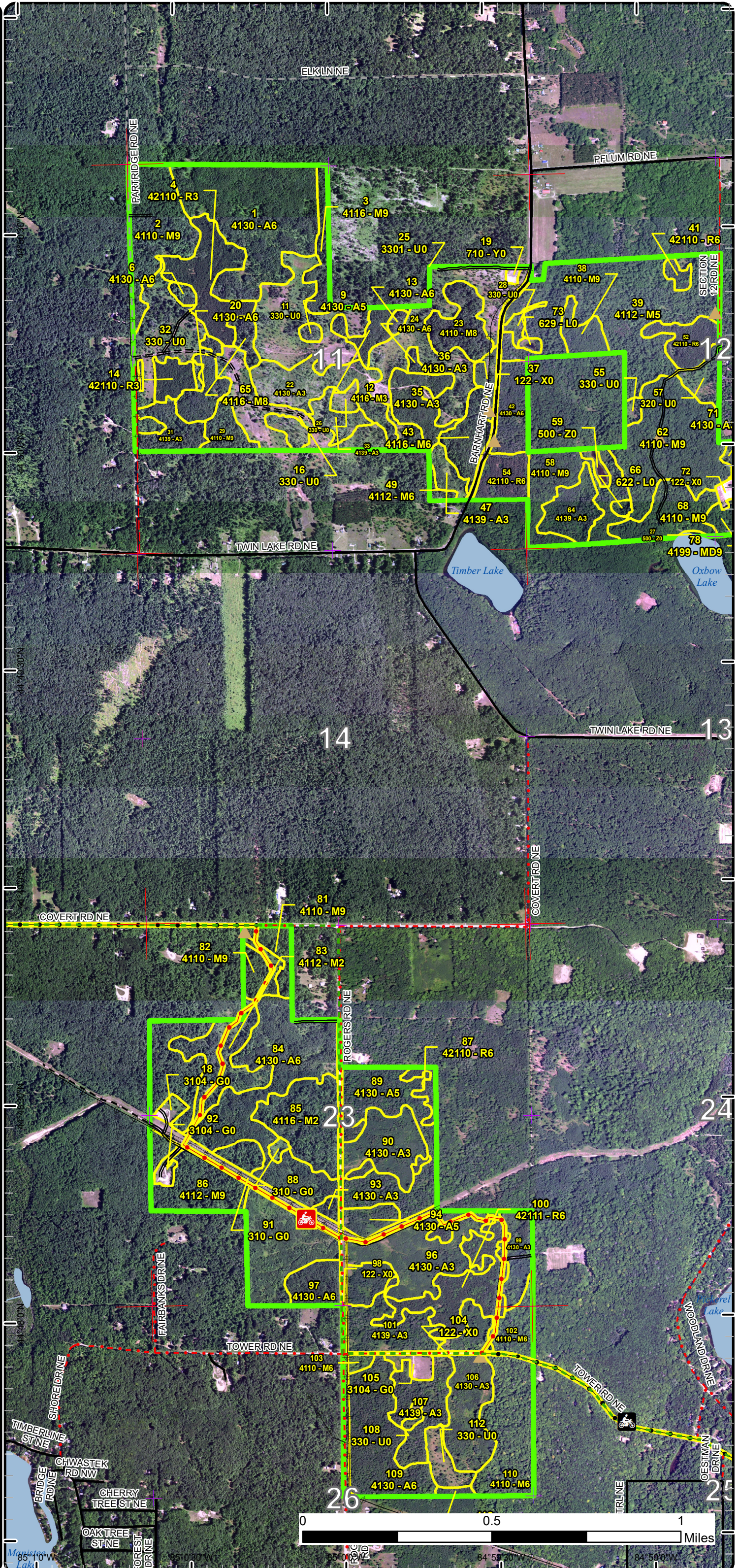


# Stand Boundary Map

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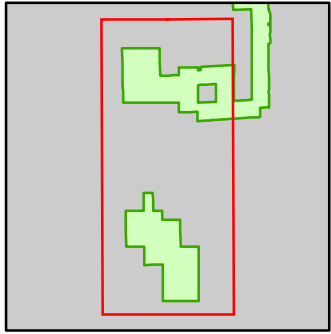
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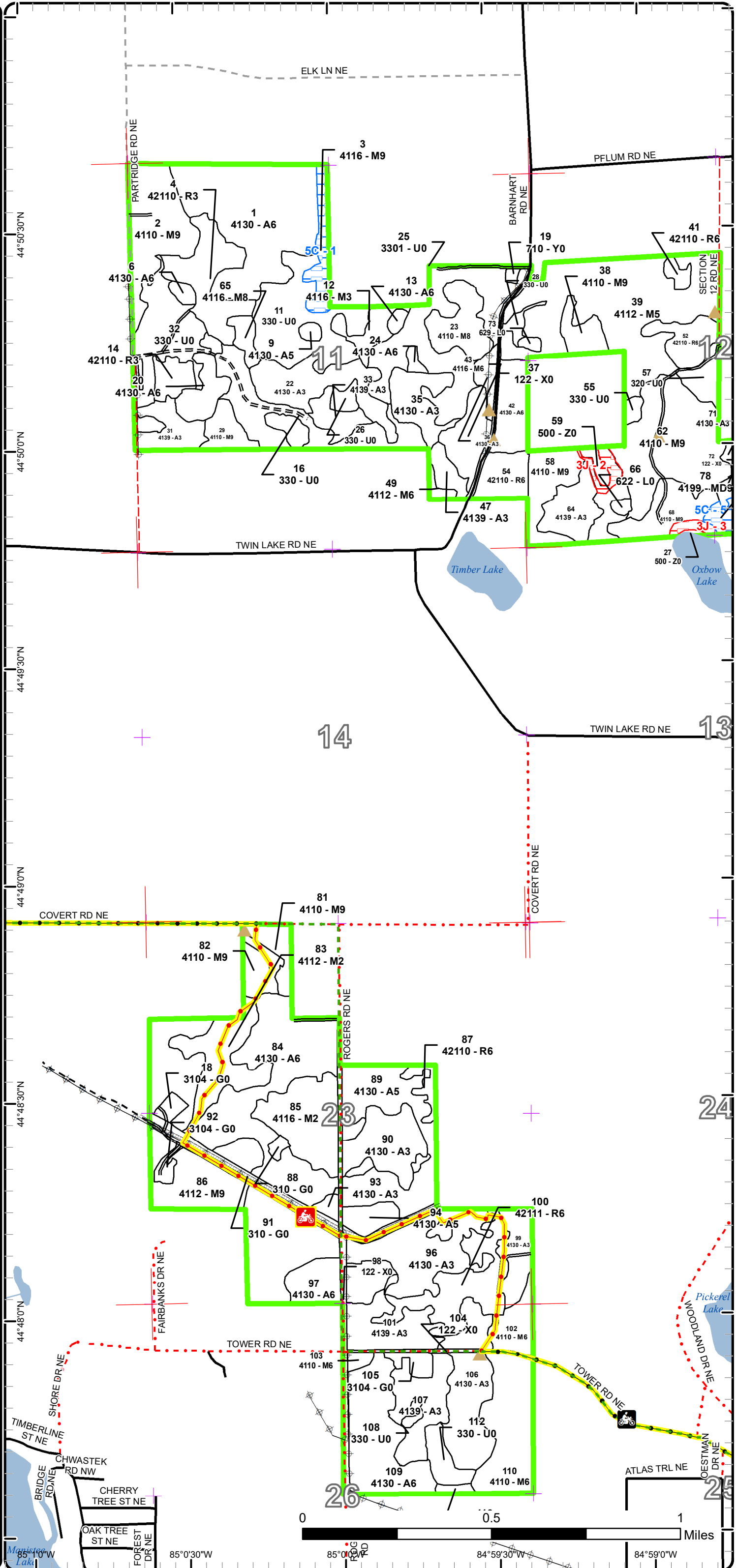


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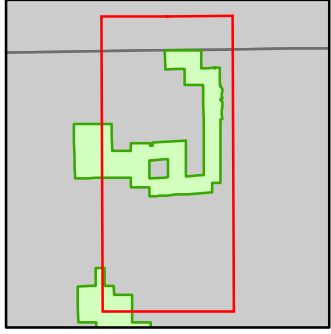


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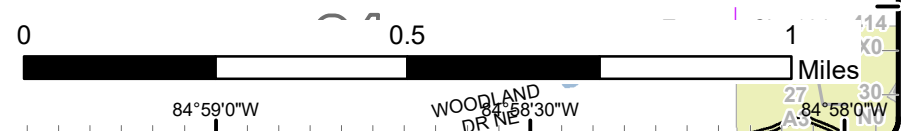
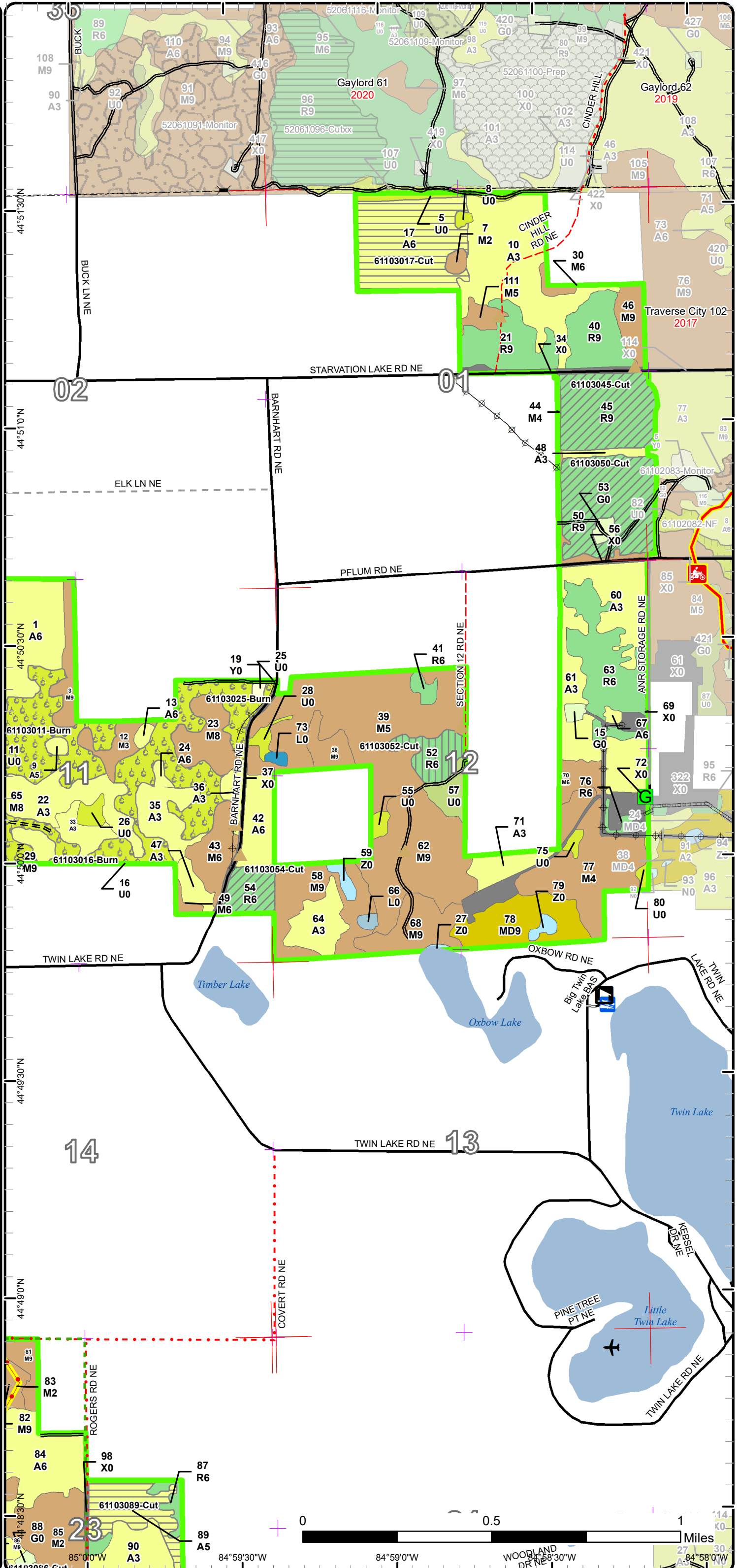


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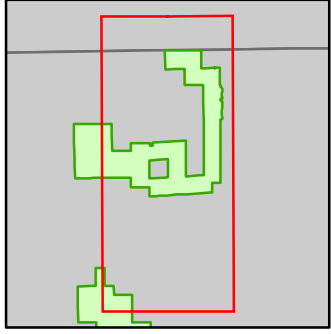
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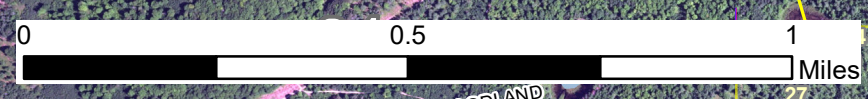
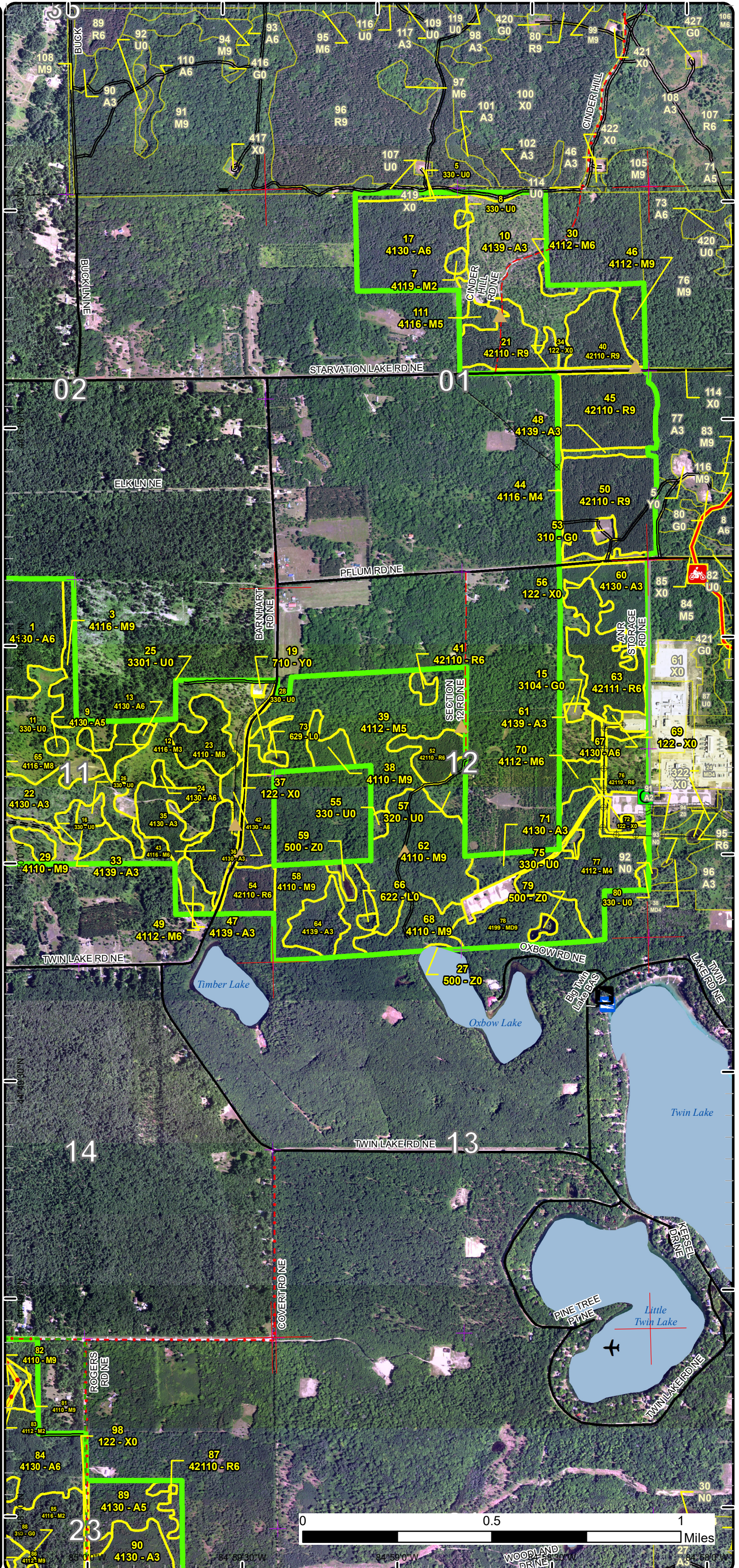


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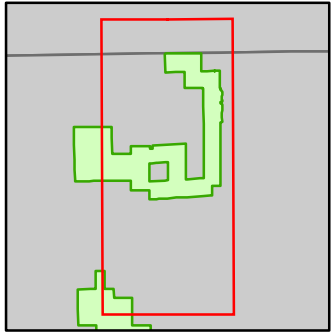


85° 00' 00" W      84° 59' 30" W      84° 59' 00" W      84° 58' 30" W

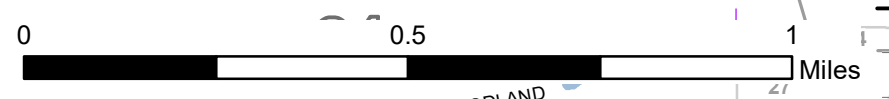
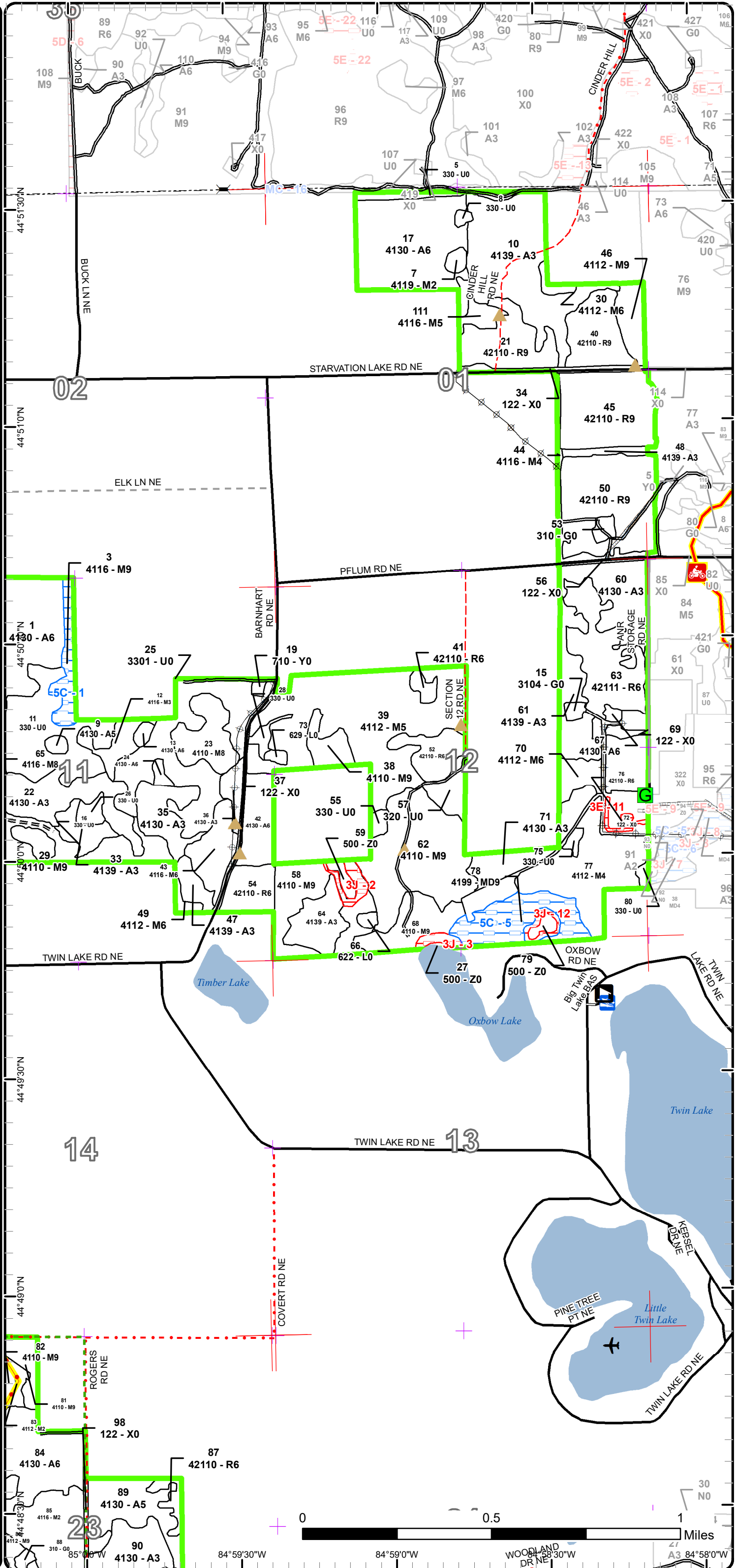


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- Unavailable
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes



84°59'30"W 84°59'0"W 84°58'30"W 84°58'0"W  
 44°49'30"N 44°49'0"N 44°48'30"N 44°48'0"N

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	156	159	15	150	46	47	2	34	0	0	0	0	0	0	0	0	13	622
Herbaceous Openland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Low-Density Trees	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	23
Northern Hardwood	0	25	0	0	14	4	0	2	177	201	17	0	0	0	0	0	0	25	465
Red Pine	0	0	0	29	0	78	10	107	0	0	0	0	0	0	0	0	0	0	224
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Urban	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>232</b>	<b>181</b>	<b>159</b>	<b>44</b>	<b>164</b>	<b>128</b>	<b>57</b>	<b>111</b>	<b>211</b>	<b>201</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>38</b>	<b>1565</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2025

Compartment 103  
Total Compartment Acres: 1,564

### Acres of Harvest

Commercial Harvest - 267  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	76	0	0	0	0	0	0	0	0	76
Northern Hardwood	0	74	0	0	0	0	0	0	0	74
Red Pine	0	0	0	0	10	106	0	0	0	116
<b>Total</b>	<b>76</b>	<b>74</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>106</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>267</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	267	0	0	0	124	0	0	0	7	398
Next Step	0	0	0	0	0	0	161	0	124	285
<b>Total</b>	<b>267</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>124</b>	<b>0</b>	<b>161</b>	<b>0</b>	<b>131</b>	<b>682</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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**Proposed Treatments:**

<b>2</b>	<b>61103002-Cut</b>	28.8	4110 - Sugar Maple Association	Sawtimber Well	88	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand down to ~ 80sqft/ac. Also create 3, 1acre, regen gaps. It might work out best to line these out. Protect any maple regen.</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> maple, cherry, basswood, aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> Survey request has been submitted.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>11</b>	<b>61103011-Burn</b>	32.2	330 - Low-Density Trees	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus forbs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs, burning, or removal of woody encroachment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>16</b>	<b>61103016-Burn</b>	26.9	330 - Low-Density Trees	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus forbs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs, burning, or removal of woody encroachment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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17	61103017-Cut	42.4	4130 - Aspen	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Remove the overstory to release the hardwood understory. Save all sugar maple and protect as much of the hardwood understory as possible (leave all tree less than 4 or 6"). Don't cut serviceberry or witch hazel.

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

Acceptable maple, aspen, cherry, basswood.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

25	61103025-Burn	39.0	3301 - Low Density Deciduous Trees	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		No
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Prescription Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus forbs.

Next Step NonForestMgt, Other - Specify  
Treatments:

Acceptable  
Regen:

Other Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs, burning, or removal of woody encroachment.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

32	61103032-Burn	26.0	330 - Low-Density Trees	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		No
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Prescription Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus forbs.

Next Step NonForestMgt, Other - Specify  
Treatments:

Acceptable  
Regen:

Other Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs, burning, or removal of woody encroachment.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
45	61103045-Cut	31.8	42110 - Planted Red Pine	Sawtimber Well	62	111-140	Harvest	Systematic Thinning	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Thin stand using a cut 1 leave 1 pattern. Minimize damage to the hardwood understory. Bark slip restriction may be necessary.</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> Long term mgmt objective of hardwoods. Goal is to minimize damage to the existing regeneration while still providing some filtered light conditions for the maple to thrive in. Follow up with an overstory removal in 10-20 yrs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
50	61103050-Cut	38.9	42110 - Planted Red Pine	Sawtimber Well	62	141-170	Harvest	Systematic Thinning	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Thin stand using a cut 1 leave one pattern. Minimize damage to the hardwood understory. Bark slip restriction maybe necessary.</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> Long term mgmt objective of hardwoods. Goal is to minimize damage to the existing regeneration while still providing some filtered light conditions for the maple to thrive in. Follow up with an overstory removal in 10-20 yrs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
52	61103052-Cut	10.4	42110 - Planted Red Pine	Poletimber Well	47	141-170	Harvest	Shelterwood	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Remove the majority of the overstory to release the advanced hardwood regen. Leave about 20-40 sqft/ac of red pine to provide the filtered light for the maple regen. Protect as much of the advanced regen as possible during the harvest.</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> maple, cherry, basswood, birch, aspen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
54	61103054-Cut	10.1	42110 - Planted Red Pine	Poletimber Well	57	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand for a second time. Mark to cut with a target BA of 120-140.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
86	61103086-Cut	45.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand down to ~80sqft/ac. Create 4-5, 1 acre, regen gaps. It might be best to line these out. Try to knock back as much of the ironwood regen as possible. Sale will need ORV trail protection specs.</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> cherry, maple, basswood, aspen</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 /2024</p>											
89	61103089-Cut	33.9	4130 - Aspen	Poletimber Medium	70	51-80	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Remove the overstory. Save all of the sugar maple and also leave some scattered pine as retention. Protect as much of the hardwood understory as possible during the harvest, leave all maple less than 4-6" in diameter. Also do not cut any serviceberry or witch hazel.</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, maple, cherry, basswood, pine.</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 /2024</p>											
100	61103100-Cut	25.1	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	46	141-170	Harvest	Systematic Thinning	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Thin every third row out of stand. Due to the variable rows this might require the rows to be marked. Aspen and cherry within the rows will need to be removed as well. ORV trail protection specs will be needed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2024</p>											
112	61103112-NF	6.8	330 - Low-Density Trees	Nonstocked			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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Could also seed in appropriate herbaceous species for food and cover.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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Total Treatment Acreage Proposed: 397.5



## Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier : Examiner

Compartment: 103

Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3E	3J
		With Condition	Not Available				
621	621	0	0	Aspen			0
28	28	0	0	Herbaceous Openland			
148	148	0	0	Low-Density Trees			
2	2	0	0	Lowland Shrub			
23	0	21	2	Mixed Upland Deciduous	21		2
465	450	9	5	Northern Hardwood	9		5
225	223	0	2	Red Pine		2	
1	1	0	0	Sand, Soil			
7	7	0	0	Upland Shrub			
42	42	0	0	Urban			
5	5	0	0	Water			0
1,565	1,526	30	9	Total Forested Acres	30	2	8
	98%	2%	1%	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	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Treat when stand 1 is ready to harvest in 10-20 yrs.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Traverse City Mgt. Unit  
Steve Crigier : Examiner

Compartment: 103  
Year of Entry: 2025

5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wait and harvest when stand 68 is ready and pair together.							
11	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	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	4130 - Aspen	Poletimber Well	58.9	38	51-80	N/A																																							
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Canopy Species	% Cover	Size Class	DBH	Age																																									
Red Maple	5	Sapling/Pole	4																																										
Black Cherry	15	Sapling/Pole	4																																										
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Canopy Species	% Cover	Size Class	DBH	Age																																									
Black Cherry	5	Log/Pole	10																																										
Sugar Maple	70	Log/Pole	10	88																																									
Basswood	25	Log/Pole	10																																										
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Beech	Trace	10 - 20 feet	Sapling																																										
Ironwood	High	10 - 20 feet	Sapling																																										
3	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	9.2	88	111-140	N/A																																							
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Canopy Species	% Cover	Size Class	DBH	Age																																									
Sugar Maple	40	Log/Pole	11	88																																									
Quaking Aspen	25	Log/Pole	10																																										
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4	42110 - Planted Red Pine	Sapling Well	22.2	28	Immature	N/A																																							
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Canopy Species	% Cover	Size Class	DBH	Age																																									
Red Pine	100	Sapling/Pole	4	28																																									
Sub-Canopy Species	Density	Avg. Height	Size																																										
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Beech	Trace	< 5 feet	Sapling																																										
5	330 - Low-Density Trees	Nonstocked	4.6			No																																							
6	4130 - Aspen	Poletimber Well	2.1	38	51-80	N/A																																							
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7	4119 - Mixed Northern Hardwoods	Sapling Medium	1.9	36	1-50	N/A																																							
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9	4130 - Aspen	Poletimber Medium	1.6	68	51-80	N/A	Poor quality aspen with maple regen in the understory.																																										
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10	4139 - Aspen, Mixed Deciduous	Sapling Well	49.2	8	Immature	N/A	2023 - stand is regenerating well with a good mix of maple. 2015 - Stand was slightly damaged from a tornado on 9/1/14 and was cut in the summer of 2015. 'Torna-dooch Aspen 61-075-14-01. Left all the maple less than 4"'.																																										
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11	330 - Low-Density Trees	Nonstocked	32.2			No	opening is slowly filling in with mixed hardwoods. Some nice patches of little blue stem. Rolling terrain. Some of the more open areas might benefit from a burn.																																										
12	4116 - Mixed N. Hardwood - Aspen	Sapling Well	7.0	30	Immature	N/A	2022 - Stand is a aspen/mixed hardwood stand. 2013 -Trees are about 20' tall. Stand is mixed with lots of species. OI notes that the stand was originally a poor quality hardwood stand that was cut to salvage poor quality basswood. North end of the stand is heavier to aspen.																																										
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13	4130 - Aspen	Poletimber Well	1.5	55	51-80	N/A	2013 -Trees are about 4 sticks tall, decent quality.																																										
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14	42110 - Planted Red Pine	Sapling Well	7.0	28	Immature	N/A	2022- trees are growing real well. On the verge of being pole size.																																										
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15	3104 - Degraded	Nonstocked	1.5			No	abandoned well pad, plugged in 2006, in need of rehab.  Stand data updated not "managed oil/gas". ANR not responsible for additional surface restoration. R Merrick																																										
16	330 - Low-Density Trees	Nonstocked	26.9			No	opening is slowly filling in with mixed hardwoods. Some nice patches of little blue stem. Some of the more open areas might benefit from a burn.																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
17	4130 - Aspen	Poletimber Well	42.4	51	51-80	N/A	Stand is dominated by quaking aspen 4-5 sticks tall. Stand seems to have quite a bit of advanced red and sugar maple regen. Also, note that there is some scattered red elm in the stand.																																														
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18	3104 - Degraded	Nonstocked	2.4				Active well pad.																																														
19	710 - Sand, Soil	Nonstocked	0.9			No	Old well pad. Road commission uses stand to stage material occassionally.																																														
20	4130 - Aspen	Poletimber Well	10.3	38	51-80	N/A	2022- Well stocked aspen stand. Developing a hardwood understory.																																														
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21	42110 - Planted Red Pine	Sawtimber Well	19.5	62	111-140	N/A	2023- A couple pockets of mortality. Crowns are fully developed. Thick hardwood understory. BA: 110, 80(west), 150, 130, 170 (east). 2013- Stand was row thinned in 2006. Understory is filling in with maple regeneration. Good diameter development most stems are 8-10" and around 6 sticks tall. Canopies have room to expand. Some A3 pockets where aspen was harvested out of the stand in 06. Hold on thinning for 10 years																																														
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22	4130 - Aspen	Sapling Well	22.5	8	Immature	N/A	2022 - Dense regen. Nice mix of maple and cherry coming back.																																														
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23	4110 - Sugar Maple Association	Sawtimber Medium	14.4	82	51-80	N/A	2022 - Some large canopy gaps left from harvest. Quite a bit of ironwood coming back. Scattered maple and cherry in the understory. BA: 70, 50, 702018 - - Stand was thinned in 2018. 'MM's Final Project' 61-147-15-01. Residual BA is variable.2013- Poor quality logs, some of them are starting to fall down. Lots of Ironwood in the understory. There is some sugar maple regen in the understory also.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>24</b>	4130 - Aspen	Poletimber Well	1.6	55	51-80	N/A																																														
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<b>25</b>	3301 - Low Density Deciduous Trees	Nonstocked	39.0			No	Some parts of the opening is filling in with mixed hardwoods. Mainly cherry and aspen. Eastern portion is almost forested. Hilly terrain.																																													
<b>26</b>	330 - Low-Density Trees	Nonstocked	2.8			No	Frost pocket with a small vernal pond at the bottom.																																													
<b>27</b>	500 - Water	Nonstocked	0.6			No	Oxbow Lake																																													
<b>28</b>	330 - Low-Density Trees	Nonstocked	2.2			No	Frost pocket. Edges filling in with hardwoods.																																													
<b>29</b>	4110 - Sugar Maple Association	Sawtimber Well	7.6	86	51-80	N/A	2022- Ironwood and sugar maple coming in the understory, heavier to ironwood. BA : 80, 70, 70 2018- Stand was thinned in 2018 'MM's Final Project' 61-147-15-01. Removed the aspen and Ironwood and thinned through the maple and basswood. 2013 - Good amount of hardwood regen. Stand has some potential but currently has some trees that are rough and limby.																																													
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<b>30</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.2	69	51-80	N/A	2013 -Stand is a small pocket of mostly red maple pole/log timber. Fairly clumpy. 2015 - Stand was harvested in summer of 2015. 'Torna-dooch Aspen' 61-075-14-01. All the aspen was removed and BA is around 60-70.																																													
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<b>31</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	10.7	5	Immature	N/A	2023 - stand is an M5 over top an A2. 2018 - Stand had the aspen removed in 2018 and left all of the young sugar maple (overstory removal). 'MM's Final Project' 61-147-15-0-1. Pockets of sugar maple are left I anticipate the open areas will come back to aspen.																																													
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<b>32</b>	330 - Low-Density Trees	Nonstocked	26.0			No	opening is slowly filling in with mixed hardwoods. Some nice patches of little blue stem. Some of the more open areas might benefit from a burn.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
33	4139 - Aspen, Mixed Deciduous	Sapling Well	10.9	8	Immature	N/A	2022 - Getting a mix of aspen mixed hardwoods for regen. Scattered log sized maple scattered throughout. 2015 - Stand had a tornado go through it on 9/1/2014 and was then salvage in the summer of 2015 'Semper Gumby Salvage' 61-074-14-01. Young maple was left as well as some Maple log trees for seed/shelter.																																																	
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34	122 - Road/Parking Lot	Nonstocked	4.4			No	Road/ROW																																																	
35	4130 - Aspen	Sapling Well	13.3	27	Immature	N/A	Aspen /mixed hardwoods and some scattered oak.																																																	
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36	4130 - Aspen	Sapling Well	4.3	16	Immature	N/A	2022 - Regen is ~ 20 tall. Good mix of hardwoods. 2013 - regen is about 10' tall and is well stocked																																																	
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39	4112 - Maple, Beech, Cherry Association	Poletimber Medium	73.5	77	51-80	N/A	2022 - Fully developed hardwood understory. Some areas are thick with inonwood but there is a lot of maple present in the understory. BAs: 70, 30, 60, 80, 90 2013 - Stand was thinned in 2007, also had the the aspen cut out of it. Residual timber is mediocre quality with lots of aspen and maple regen underneath.																																																	
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<b>40</b>	42110 - Planted Red Pine	Sawtimber Well	16.9	62	111-140	N/A	2023 - BA: 140, 130, 100. Fully developed hardwood understory.																																																								
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<b>41</b>	42110 - Planted Red Pine	Poletimber Well	2.5	47	81-110	N/A	Stand has a lot of hardwood competition and is of pretty poor quality. For now it is adding a bit of diversity from the mostly hardwood landscape. I don't think it is a good idea to crush all the new regen in stand 36 to get to 3 acres of poor quality redpine. Final harvest the pine next time the hardwood stand is treated																																																								
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<b>42</b>	4130 - Aspen	Poletimber Well	12.8	46	51-80	N/A	2022- some aspen is starting to fall out of the stand. Nice hardwood regeneration in the understory. 2013-Stand is immature, but is healthy. Trees are 3-4 sticks tall and is converting from a sapling stand to a pole stand.																																																								
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<b>43</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	12.2	73	51-80	N/A	2022 - stand is a mix of hardwoods and aspen. Pockets of log size timber with pockets of saplings /pole timber. Good amount of maple in the understory. Overstory is of poor to medium quality. BA: 60, 90, 2013 - Stand is a young maple stand with a decent amount of aspen also. Stand has lots of advance red maple regeneration. Stand also has a slope off to the west. The timber on the slope seems to be older and is more of a M6 stand with mostly red maple in the overstory. East end of the stand looks to be more of a sapling/pole stand. Stand is in the midst of convertin from saplings to poles.																																																								
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<b>44</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	5.2	37	1-50	N/A	Stand is a U0 Type that is filling in over time.																																																								
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<b>45</b>	42110 - Planted Red Pine	Sawtimber Well	31.8	62	111-140	N/A	2023 - BA: 100, 130, 140, 120. There are a few more pockets of mortality. Fully developed hardwood understory. Canopies are fully developed. 2013 -Stand thinned in 2006. 5-6 stick trees. Heavy soft maple understory. Some A3 pockets. Stand has a small dieback pocket in the center of stand. I did do the forest health app. into R. Mech. Extra BA: 110, 130,																																												
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<b>46</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.5	81	51-80	N/A	2023 - BA: 70, 90, 70. Some maple and cherry regenerating but more beech/ironwood. 2015 - Stand was select cut in summer of 2015 'Tornado Aspen' as an add-on stand. 61-075-14-01. 2013 - Stand is on a slight hill. Small pocket of stand was harvested with the hardwoods to the east. Timber is medium quality it could definely benefit from thinning out deformed stems.																																												
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<b>47</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	5.0	16	Immature	N/A	2022- Aspen and mixed hardwoods. 2013. Stand was cut in 2008. Stand is on rolling terrain. Regeneration is about 10 ft tall.																																												
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52	42110 - Planted Red Pine	Poletimber Well	10.4	47	141-170	N/A	2022 - Nice hardwoods in the understory, some beech but a lot of maple. 2013 - Rows are crooked and are on some hilly terrain. Trees are about 4-5 sticks tall however, there are some pockets that aren't doing as well and are more like 3 sticks.																																									
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53	310 - Herbaceous Openland	Nonstocked	2.2			No	old well pad, plugged in 1995.																																									
54	42110 - Planted Red Pine	Poletimber Well	10.1	57	141-170	N/A	2022- South end of stand has lots maple filling in the understory. Pocket of mortality in the SW part of the stand. strip of maple and aspen along the road. BA: 160, 120, 190. 2013 - Stand was 3rd row thinned in 2007. Stand has some rolling terrain. Trees are 6-7 sticks tall. Nice quality redpine. Rows are straight and plenty wide. Canopies appear to be closed in.																																									
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55	330 - Low-Density Trees	Nonstocked	1.9			No	Opening filling in.																																									
56	122 - Road/Parking Lot	Nonstocked	1.5			No	Road/ROW																																									
57	320 - Upland Shrub	Nonstocked	6.7			No																																										
58	4110 - Sugar Maple Association	Sawtimber Well	23.8	77	51-80	N/A	2022- Decent quality canopy. Ironwood is coming back in the understory with pockets of maple. BA : 70, 60, 70. 2017 -Stand was select cut in 2017 'Coon bear Hardwoods' 61-137-15-01. All the aspen was cut and the rest has a residual BA around 70-80. 2013 - Extra ba 140. Stand has a decent amount of aspen. North end of the stand seems to have larger diameter and better quality. South end is small timber and the stocking is lower.																																									
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59	500 - Water	Nonstocked	2.1			No	Vernal Pond																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>60</b>	4130 - Aspen	Sapling Well	20.8	16	Immature	N/A	2023 - Getting a good mix of hardwood back with the aspen. 2013 - Stand was cut in 2007. Regen is about 10' tall and is well stocked.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Sugar Maple		5	Sapling	1	16				
Black Cherry		10	Sapling	2	16				
Red Pine		5	Pole	8	45				
Quaking Aspen		65	Sapling	2	16				
Red Maple		15	Sapling	2	16				
<b>61</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	26.7	7	Immature	N/A	2023- Stand is filling in well. Scattered pole size maple. 2017 - Stand was final harvested in the summer of 2016 (Gas Pressure Mix 61-145-15-01). Left all the white pine, spruce, oak, birch and maple less than 4". Also marked some scattered maple to leave. 2013 - Aspen is starting to deteriorate, Stocking is variable in spots. Some areas are more of a red maple M5 type. South of well pad there some nice sugar maple regen.		
<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		25	Sapling/Pole	3	30	Sugar Maple	Low	5 - 10 feet	Sapling
Quaking Aspen		55	Sapling	1	7	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Black Cherry		15	Sapling	1	7				
Sugar Maple		5	Sapling/Pole	1	7				
<b>62</b>	4110 - Sugar Maple Association	Sawtimber Well	44.5	78	51-80	N/A	2022 - Decent flush of ironwood in the understory. Sugar maple is filling in the larger canopy gaps and skid trails. BA'S: 90, 90, 60, 70.		
<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>
Basswood		10	Log/Pole	12		Ironwood	High	5 - 10 feet	Sapling
Red Maple		10	Log/Pole	11		Sugar Maple	Medium	< 5 feet	Sapling
Sugar Maple		70	Log/Pole	11	78	Black Cherry	Trace	5 - 10 feet	Sapling
Red Oak		10	Log	14	95	Red Maple	Low	< 5 feet	Sapling
						Beech	Low	5 - 10 feet	Sapling
<b>63</b>	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	29.2	46	111-140	N/A	2023 - BA: 150, 80, 100, 150, Stocking is variable, rows are not uniform. Developing hardwood understory. 2013 -Red pine is short, about 3 sticks, and limby overall pretty poor quality. Stocking is variable, stand has quite a few pockets of aspen (A4/A5). Rows are fairly wide. Long term plan may want to push stand to aspen or hardwoods.		
<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>
Black Cherry		5	Pole	8		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple		3	Log/Pole	10		Black Cherry	Trace	5 - 10 feet	Sapling
Red Pine		80	Pole	8	46	Beech	Low	5 - 10 feet	Sapling
Sugar Maple		2	Pole/Log	9					
<b>64</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	12.6	7	Immature	N/A	2022 - Aspen is filling in but a good amount of hardwoods also. 2017 - Stand was clearcut in 2017 'Coon Bear Hwds' 61-137-15-01. We left all the maple that was under 4" and all oak and some scattered cherry. 2013 -Stand is in a bit of a bowl. Not great quality aspen.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		35	Sapling	2	16				
Quaking Aspen		45	Sapling	1	7				
Sugar Maple		20	Sapling	2	16				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
65	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	4.3	82	1-50	N/A	2022 - clumpy basswood and declining aspen. Sugar maple establishing in the understory.																																														
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66	622 - Lowland Shrub	Nonstocked	1.2			No	Vernal Pond																																														
67	4130 - Aspen	Poletimber Well	1.1	58	51-80	N/A																																															
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68	4110 - Sugar Maple Association	Sawtimber Well	16.8	93	81-110	N/A	2022- Pockets of maple regen, other areas are dominated by beech and ironwood in the understory. BA'S : 100, 70, 80, 90. 2013- Stand was first thinned in 1985 and then again in 2007 with 'Oxbox Lake Oak' to the east but this portion is more of a sugar maple stand. Quality of the trees is variable but mostly moderate quality.																																														
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69	122 - Road/Parking Lot	Nonstocked	3.6			No	Sub station site for TC Energy																																														
70	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.4	76	51-80	N/A	Stand has variable overstory stocking. Lots of maple in the understory. Maple is open grown and limby overall poor quality timber.																																														
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71	4130 - Aspen	Sapling Well	8.2	16	Immature	N/A	2022 - Was cut in 2007, Stand has regenerating well, trees are about 20ft tall. Some scattered large oak.																																														
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72	122 - Road/Parking Lot	Nonstocked	15.8				ANR Storage site and pipeline/powerline ROWs																																														





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
73	629 - Mixed non-forested wetland	Nonstocked	1.2			No	Frost pocket. Edges filling in with hardwoods.
75	330 - Low-Density Trees	Nonstocked	1.4			No	Opening filling in with timber.
76	42110 - Planted Red Pine	Poletimber Well	1.8	40	111-140	N/A	Inside the ANR fence of their storage facility.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Pine	100	Pole	6	40	
77	4112 - Maple, Beech, Cherry Association	Poletimber Poor	37.1	87	1-50	N/A	2022 - stand is regenerating well with a mix of cherry, maple and aspen.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		White Pine	5	Log/Pole	12		
		Red Oak	15	Log	12		
		Black Cherry	10	Pole	8		
		Red Maple	30	Log/Pole	10		
		Sugar Maple	40	Pole/Sap/Log	8	87	
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Serviceberry (Juneberry)	Low	Variable	Sapling		2018 - Stand was cut in the fall of 2017 'Oxbow left Behind Hwds 61-131-17-01). The residual BA is variable but is probably around 10-40sqft/ac. There will be some pockets that will regenerate to aspen. The logging crew did a good job of trying to work around and advanced maple regen. 2013 - Stand is a mix of aspen and maple with lots of hardwood understory. Aspen is deteriorating and the maple is of poor quality. Stocking is variable, a few pockets of nothing but 15' tall ironwood.
		Black Cherry	Medium	5 - 10 feet	Sapling		
		Quaking Aspen	Medium	5 - 10 feet	Sapling		
		Red Oak	Trace	5 - 10 feet	Sapling		
		White Pine	Trace	< 5 feet	Sapling		
		Ironwood	Low	Variable	Sapling		
		Red Maple	Medium	5 - 10 feet	Sapling		
		Sugar Maple	Low	5 - 10 feet	Sapling		
78	4199 - Other Mixed Upland Deciduous	Sawtimber Well	22.8	95	81-110	N/A	2022 - Decent mix of maple in the understory but there are areas dominated by beech and ironwood. Oak is looking economically mature. Overstory is healthy and of moderate quality. BAs: 50, 90, 100, 80. 2013 - Stand was first thinned in 1985 and then again in 2007, High to medium quality red oak logs left. Red maple sprouts are coming back thick. Stand has a small bluff leading down to Oxbow lake. The old timber sale didn't extend south of the bluff. West end of the stand has a higher component of sugar maple, along with more advanced regen.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	10	Pole/Sap/Log	8		
		Basswood	5	Log/Pole	12		
		Red Oak	50	Log	14	95	
		Sugar Maple	35	Pole/Log	9		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Red Maple	High	Variable	Sapling		
		Ironwood	Medium	10 - 20 feet	Sapling		
		Sugar Maple	Medium	5 - 10 feet	Sapling		
		Beech	Low	10 - 20 feet	Sapling		
79	500 - Water	Nonstocked	1.8			No	Vernal pond
80	330 - Low-Density Trees	Nonstocked	1.4			No	
81	4110 - Sugar Maple Association	Sawtimber Well	7.4	88	81-110	N/A	2023 - BA: 90, 90. 2013 - This is a hardwood stand with an aspen component. ORV trail runs through the stand. Aspen is overmature. Stems are medium to poor quality. South finger of the stand is better quality timber, was marked and set up last YOY but wasn't cut?
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Sugar Maple	70	Log/Pole	10	88	
		Basswood	15	Log/Pole	12		
		Bigtooth Aspen	15	Log/Pole	11		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Sugar Maple	Trace	5 - 10 feet	Sapling		
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		Ironwood	High	Variable	Sapling		



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<b>82</b>	4110 - Sugar Maple Association	Sawtimber Well	4.9	88	81-110	N/A	2023- BA:120, 70, 100. Some cherry in the understory but mostly ironwood. 2013 - Stand was thinned in 2008. Beech and ironwood advanced regen is present. Decent quality timber. Hold on thinning for 10-20 years.																																																																
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<b>83</b>	4112 - Maple, Beech, Cherry Association	Sapling Medium	25.0	20	Immature	N/A	Opening that has filled in with hardwoods and aspen. Stocking is patchy. Scattered pole size cherry.																																																																
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<b>84</b>	4130 - Aspen	Poletimber Well	55.7	38	51-80	N/A	2023 - Overstory stocking is variable with some sparse areas. Understory is dense consisting of mostly maple. 2013 - Stand is converting into a pole stand. Trees are 20-30' tall. Some of the areas with big tooth present are pole sized timber.																																																																
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<b>85</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	24.8	6	Immature	N/A	2023- Aspen has regenerated well. Nice mix of Maple and aspen.  2017 - Stand was harvested in the Fall of 2017 'Claustrophobic Aspen' 61-144-15-01. It was more of overstory removal than a clearcut leaving marked sugar maple to leave and all sugar maple less than 4". 2013 -Past inventory notes says a fire in the area might explains some of the different ages in the aspen. Stand has thick hardwood regen in the understory.																																																																
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<b>86</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	45.2	85	111-140	N/A	2023 - BA: 110, 120, 120, 110, 110. Understory is dominated by ironwood, overstory is mediocre quality. Low amounts of maple and cherry in understory. A few A3 pockets in the stand. 2013 - Stand was thinned in 2008. South and west property lines appears to be established. Some areas have large canopy gaps. West end of stand is decent quality timber but drops off to poor quality on the east side. Canopies still have room to expand. Hold for 10 years. Extra BAs 110, 90.																																																																
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<b>87</b>	42110 - Planted Red Pine	Poletimber Well	7.0	46	111-140	N/A	2023- small pockets of red pine. can't be managed with normal red pine silvicultural. Final harvest when the pockets reach maturity.																																																							
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<b>88</b>	310 - Herbaceous Openland	Nonstocked	1.4			No	Starting to fill in.																																																							
<b>89</b>	4130 - Aspen	Poletimber Medium	33.9	70	51-80	N/A	2023 - Understory is fully developed. time to remove the overstory. Stocking is variable. 2013 -Stand has scattered red pine throughout the stand. Stand has hardwood advanced regen in the understory. Some pockets look like they can hold for 10 year others are already starting to fall down.																																																							
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<b>90</b>	4130 - Aspen	Sapling Well	18.9	13	Immature	N/A	2023 - Stand looks good. Some maple mixed in. 2013 - Stand was cut in 2010, and has scattered red pine pole timber scattered through it. Regen is about 10' tall.																																																							
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<b>91</b>	310 - Herbaceous Openland	Nonstocked	14.1			No	Pipeline ROW and ORV route.																																																							
<b>92</b>	3104 - Degraded	Nonstocked	2.4				Active well pad.																																																							
<b>93</b>	4130 - Aspen	Sapling Well	2.0	6	Immature	N/A	2023- stand is regenerating well 2017 -Stand was final harvested in the fall of 2017 Claustrophobic Aspen 61-144-15-01.																																																							
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<b>94</b>	4130 - Aspen	Poletimber Medium	6.3	37	1-50	N/A	2023- Poor quality aspen with a developing hardwood understory. 2013 - Stand is converting into a pole stand just not quite there yet. Trees are 20-30' tall.																																				
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<b>96</b>	4130 - Aspen	Sapling Well	59.2	13	Immature	N/A	2023 - A good component of hardwoods filling in with the aspen. 2013 - Stand was cut in 2010. Was originally poor quality aspen. Regen is about 10' tall																																				
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<b>97</b>	4130 - Aspen	Poletimber Well	17.0	37	1-50	N/A	2023- Poor quality aspen, has hardwoods developing in the understory. 2013 -Stand is converting into a pole stand just not quite there yet. Trees are 20-30' tall.																																				
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<b>98</b>	122 - Road/Parking Lot	Nonstocked	10.0			No	road/ROW																																				
<b>99</b>	4130 - Aspen	Sapling Well	11.5	13	Immature	N/A	2023 - 2013 - Stand was cut in 2010. Regen is about 10' tall. There is some scattered white pine pole/log sized trees in the stand also																																				
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<b>100</b>	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	27.2	46	141-170	N/A	2023 - BA: 160, 190, 140. Stand has a developing hardwood understory. 2013 -Stand is an odd shaped plantation, wide rows, with some pockets of aspen and hardwood. Trees are about 4 sticks tall limby open grown timber. Hold for 10 years Stand provides some diversity to a hardwood/aspen landscape.																																				
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<b>101</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	16.6	6	Immature	N/A	2023- Aspen and hardwood regen is filling in. 2018 - Stand was final harvested in the fall of 2017 'Claustrophobic Aspen' 61-114-15-01. Advanced sugar maple regen was protected pretty well during the harvest.																																					
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<b>102</b>	4110 - Sugar Maple Association	Poletimber Well	9.4	77	81-110	N/A	Poor quality timber. Lots of ironwood and beech in the understory. Stand has some beech mostly in the east part of stand, and the beech does have the scale.																																					
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<b>103</b>	4110 - Sugar Maple Association	Poletimber Well	1.8	82	81-110	N/A	2023 - Mediocre quality. Some aspen and maple regen. 2013 -Stand had the aspen removed in 2010, 'Tower Rd Aspen'.																																					
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<b>105</b>	3104 - Degraded	Nonstocked	3.6			No	Old well pad, plugged in 1998. Locals using a shooting range/ dump site.																																					
<b>106</b>	4130 - Aspen	Sapling Well	27.9	13	Immature	N/A	2023 - High stems density. Some hardwood species present. 2013 - Stand was cut in 2010. Has ORV trail running through the north part of the stand. Regen is about 10' tall.																																					
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<b>107</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	17.9	6	Immature	N/A	2023 - Some scattered white pine. Aspen is regenerating well. 2018 - Stand was harvested in the fall of 2017 'Claustrophobic Aspen' 61-144-15-01. All of the young sugar maple was protected during the harvest.																																					
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<b>108</b>	330 - Low-Density Trees	Nonstocked	1.2			No																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
<b>109</b>	4130 - Aspen	Poletimber Well	33.0	46	51-80	N/A	2023 - Fully developed hardwood understory. Overstory looks healthy.																																											
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<b>110</b>	4110 - Sugar Maple Association	Poletimber Well	29.3	82	81-110	N/A	2023 - Understory has lots of beech and ironwood regen. BA: 110, 70, 100. 2013 - Stand was thinned in 2008. Poor quality timber and stocking is clumpy. There is beech scale present. Stand is up on a hill that slopes down to the west.																																											
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<b>111</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	3.9	45	1-50	N/A	2023- Scattered cherry and aspen overstory. Understory is filling in with hardwoods.																																											
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<b>112</b>	330 - Low-Density Trees	Nonstocked	6.8			No																																												
<b>113</b>	4130 - Aspen	Sapling Well	1.6	26	Immature	N/A	Stand was originate from a timber trespass.																																											
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