



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61168

Entry Year: 2026

Acreage: 1,853

County: Kalkaska

Management Area: Kalkaska Sandy Moraines

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**Stand Examiner:** Paul Roell

### Legal Description:

T27N, R7W, Sections 2, 3, 4, 5 & 6

### Identified Planning Goals:

Management in the Kalkaska Sandy Moraines area will emphasize continuing to balance the age class of aspen on suitable sites, the thinning the northern hardwoods, balancing age classes of red pine and jack pine and regenerating the aging oak resource. Management will strive to sustainably produce various forest products; enhance game and non-game wildlife habitat; protect areas of unique character and provide for forest-based recreational uses. Expected trends within this 10-year planning period are increased recreational pressure, managing oil and gas development, introduced pests and diseases and the difficulty in regenerating oak.

### Soil and topography:

Mostly flat with Rubicon & Kalkaska sands.

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

The compartment is located 1 ½ miles north of Kalkaska. State Land is intermixed with private property throughout this compartment and also the compartment to the south. Further development of residential and industrial adjacent private land can be expected in the future.

### Unique Natural Features:

None known at this time.

### Archeological, Historical, and Cultural Features:

None known at this time.

### Special Management Designations or Considerations:

None known at this time.

### Watershed and Fisheries Considerations:

A small pothole lake, known as Bird Lake, is within this Compartment. Walk in access was improved and developed with small turn around parking area.

### Wildlife Habitat Considerations:

Compartment 168 lies just north of the city of Kalkaska and is bisected by US-131. This is a busy highway and presents a barrier to movement for many wildlife species. Parts of three types of glacial outwash formations, a broad outwash plain (5111), a pitted outwash plain (5211), and a small strip of poorly drained outwash channel (5549), comprise the geology of this compartment. Several large blocks of private property, including a residential neighborhood, break up state ownership. There are several trails that traverse this compartment, including ORV, hiking, and horse trails. The trails have various impacts, mainly non-consumptive, on wildlife.

Most of compartment 168 and much of the state ownership lie on the broad, flat outwash plain. The sandy soil found here was often the setting for large wildfires. These fires sustained a variety of fire driven communities, mainly conifer forests at the time of the GLO surveys. Present habitat types include aspen of various ages interspersed by grassland openings, upland brush, and several pine plantations. Timber harvests should be designed to mimic wildfires of various intensities, when possible. Aspen harvest should utilize red maple or similar species for the creation of dead and down material. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. Future sales could also be designed to utilize existing conifers as residuals. Several upland brush stands have been prescribed for maintenance to set back woody encroachment and stimulate native herbaceous vegetation. Species found in these early to mid-successional communities include white-tailed deer, ruffed grouse, eastern bluebird, smooth green snake, meadow vole, and red-tailed hawk.

The west end of the compartment is situated on a pitted outwash plain which also has dry sandy soils and was the scene of large wildfires. This type of outwash plain contains numerous kettle lakes, few of which occur in this compartment. Except

for a larger representation of northern hardwoods, habitat types found here are similar to the ones found on the broad, flat outwash plain. Therefore, treatment designs for the early successional communities should also be similar.

The remaining outwash formation is a narrow, poorly drained channel, which contains Bird Lake. Conifer swamps were the most common community on this mucky soil and are still prevalent. However, except for the lake, the section of outwash channel in this compartment is the tip of the channel and has the highest elevation of the channel. This apparently has resulted in drier soils which are supporting a mix of aspen, hardwoods, and pine.

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

There is no known metallic mineral potential in this part of the state. The closest known active sand/gravel pit is less than two miles north. There may be some potential for sand & gravel within the compartment and demand for aggregate exists in the area, but potential for commercial development may be inhibited by the prevalence of oil & gas infrastructure. The compartment is within the northern Silurian reef hydrocarbon play. Much of the compartment has been developed in association with the latter, and several successful, as well as many unsuccessful, wells are within the compartment. All State-owned mineral rights in the compartment are currently leased and held by production. It is possible that additional future reef reservoir discoveries beneath the compartment could occur, but potential is considered low. More likely are efforts of secondary recovery from old reservoirs. A number of depleted reef reservoirs in the area are being utilized for gas storage purposes, and there is future potential for additional gas and carbon storage opportunities within the compartment.

### **Vehicle Access:**

There is adequate access throughout the compartment.

### **Survey Needs:**

None needed at this time.

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

This compartment contains a variety of recreational trails. The non-motorized trails include the North Country Scenic Trail, and the Shore to Shore Equestrian trail. The motorized recreational trails include the Leetsville ORV Trail, and the Michigan Cross Country Cycle Trail (MCCCT). Trail protection specifications relevant to the specific type of trail should be used within stands being treated. Communication between the forester, and the appropriate recreation staff is needed to coordinate timber harvest activities impacting the Shore to Shore equestrian trail.

### **Fire Protection:**

Since the compartment is located 1 mile North of the Kalkaska Field Office, fire response times are minimal. Just a few red pine stands scattered throughout the compartment are the only real concern, plus most have good access along main roads.

### **Additional Compartment Information:**

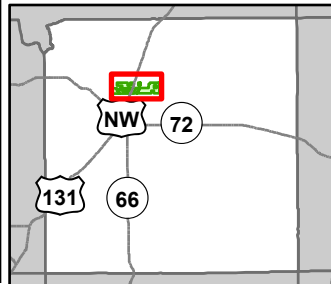
#### **The following reports from the Inventory are attached:**

- 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**

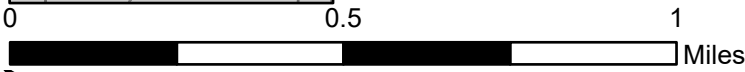
#### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

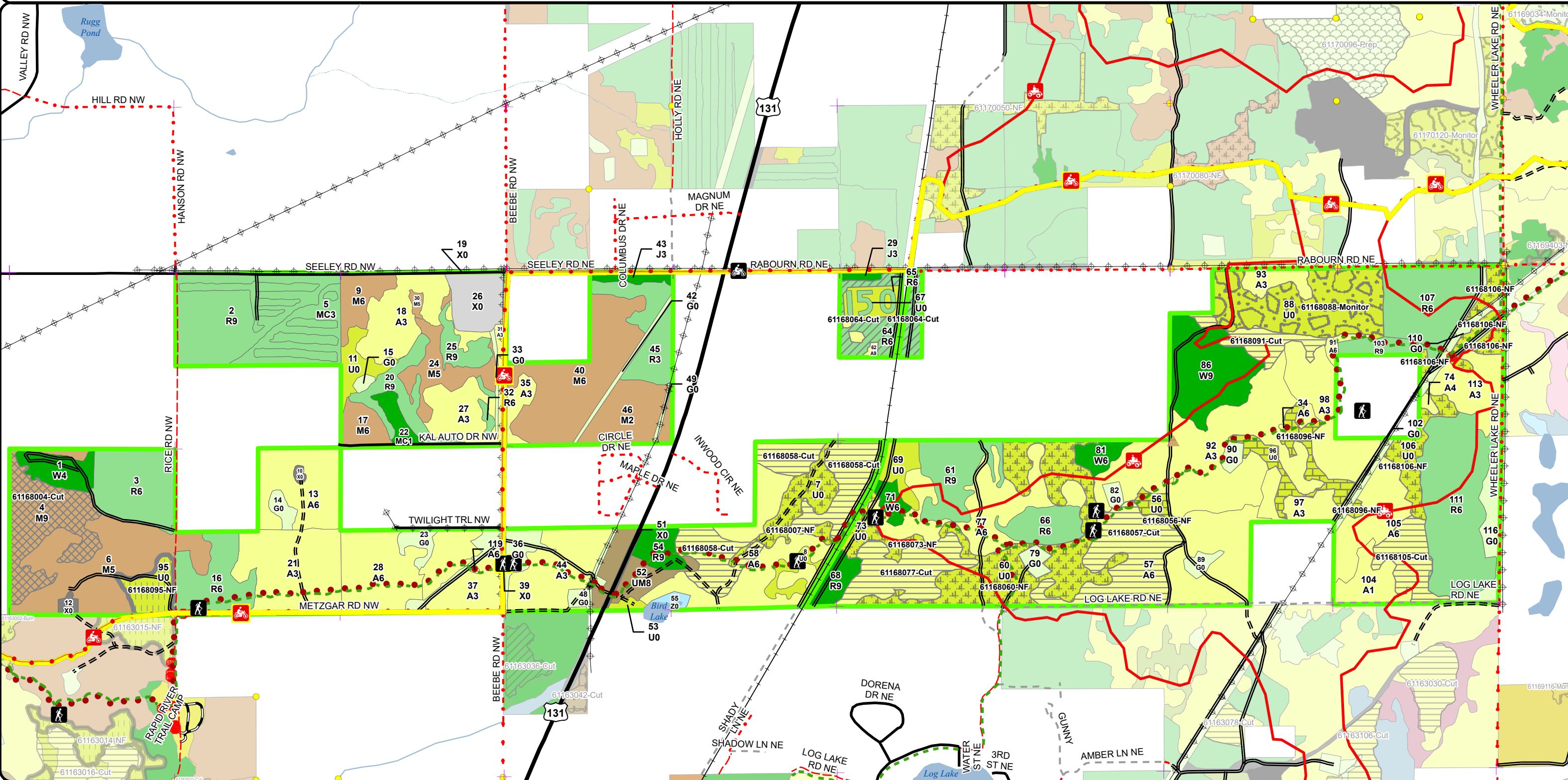
**Cover Type & Treatments Map**



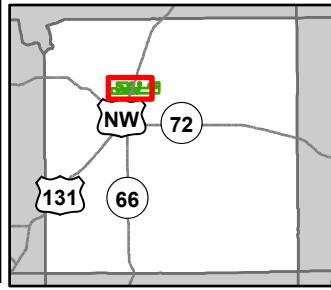
Compartment: 61168  
 T27N, R7W, Sec: 2-6  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Kalkaska Sandy  
 Moraines  
 YOE: 2026  
 Acres: 1853.2 GIS Calculated  
 Examiner: Paul Roell  
 Map Revised: 10/14/2024  
 Map Phase: Post Review



- |                                   |                                |   |                                     |                             |
|-----------------------------------|--------------------------------|---|-------------------------------------|-----------------------------|
| ▲ Berms                           | 🚲 MCCCT Trails                 | — Federal / State Highway               | 🌊 Lakes and Rivers                  | 🟡 413 - Aspen Types         |
| ⚠️ Campground                     | 🚲 ORV Trails                   | — Federal / State / County - Paved Road | 🟢 Compartment Boundary              | 🟢 421 - Planted Pines       |
| 🛑 Sign                            | ● Designated Equestrian Trails | - - - County - Gravel Road              | 📄 Other Treatment - See Comments    | 🟢 422 - Natural Pines       |
| ● Survey Grade Corners            | — Designated Hiking Pathways   | - - - County - Dirt Road (Seasonal)     | 🌲 Selection (Group, Single Tree)    | 🟢 430 - Upland Mixed Forest |
| ✚ Remonumented Section Corners    | — Designated ATV Trails        | - - - Private - Dirt / Gravel Road      | 📄 Clearcut (w/Reserves)             | 🟡 110 - Low Intensity Urban |
| 🚶 Hiking Trails                   | 🟡 Designated MCCCT Trails      | 🚂 Active Railroads                      | 📄 Thinning (Crown, Low, Systematic) | 🟡 122 - Roads/Parking Lot   |
| 🐎 Horse Trails                    | — DNR - Primary Forest Road    | 🌊 Intermittent Stream                   | 📄 Regeneration Survey               | 🟡 310 - Herbaceous Openland |
| 🚲 Motorcycle Trails (SOS License) | — DNR - Secondary Forest Road  | 🌊 Lake/Pond                             | 📄 Habitat Structures                | 🟡 330 - Low Density Trees   |
| 🚲 Motorcycle Trails (DNR License) | == DNR - Forest Access Route   | 🌊 Perennial River                       | 📄 Opening Maintenance               | 🟡 500 - Water               |
|                                   |                                | ⚡ Powerline                             | 🟢 411 - Northern Hardwood           |                             |



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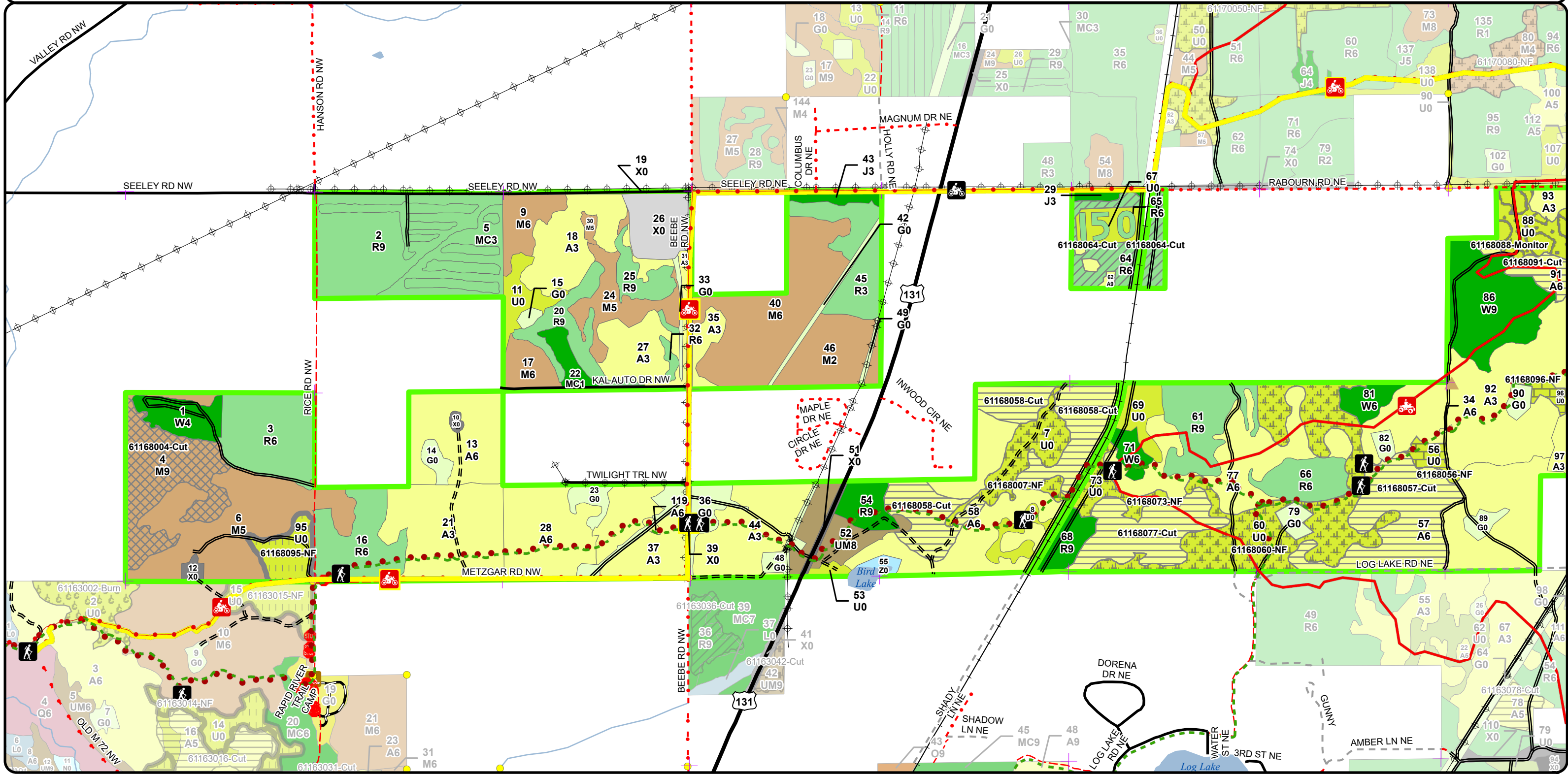
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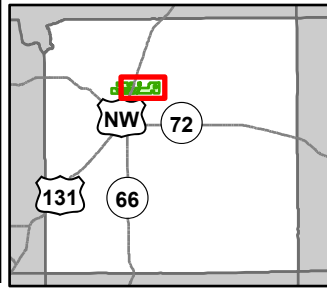
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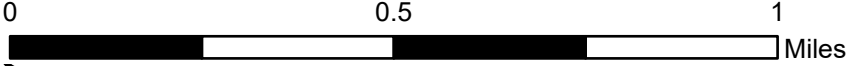
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
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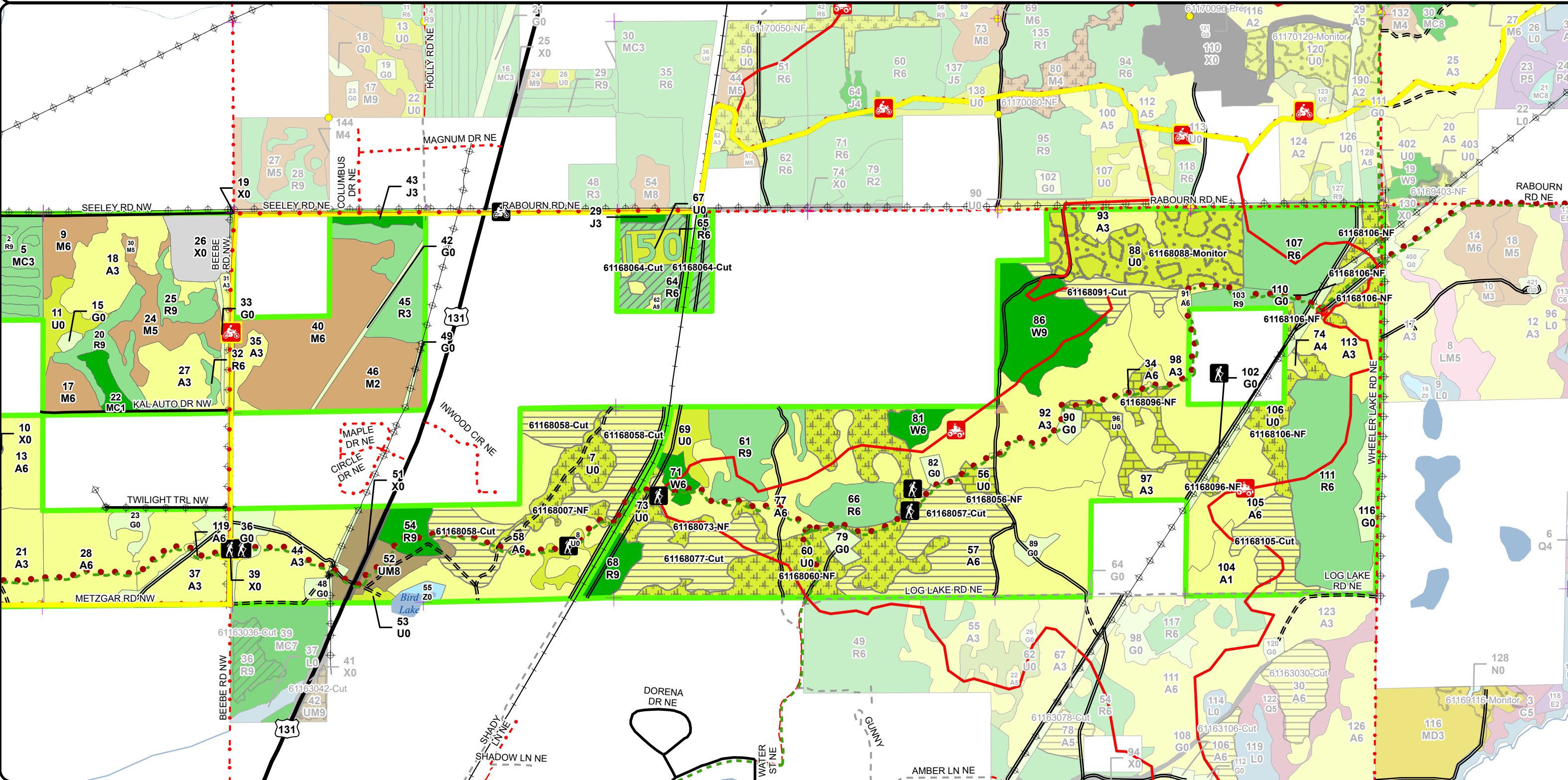
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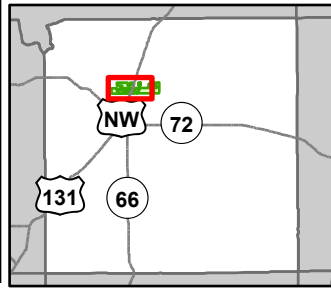
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- |                                   |   |                                   |                                     |                             |
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| ● Sign                            | ● Designated Equestrian Trails            | --- County - Dirt Road (Seasonal) | ▭ Other Treatment - See Comments    | ■ 430 - Upland Mixed Forest |
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# Stand Boundary Map



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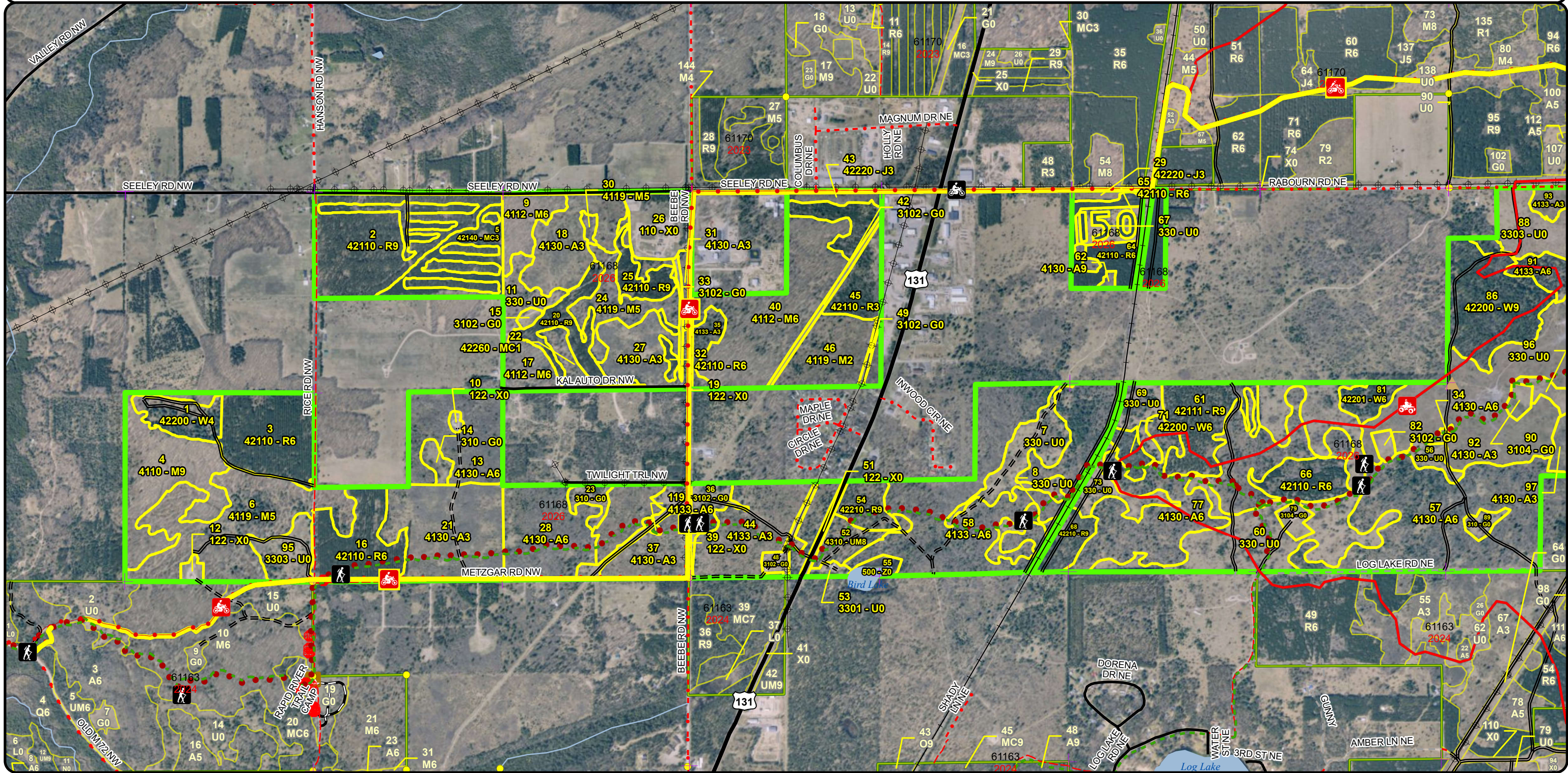
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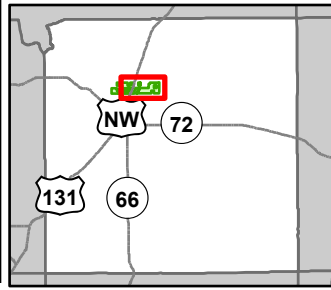
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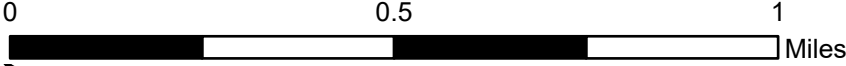
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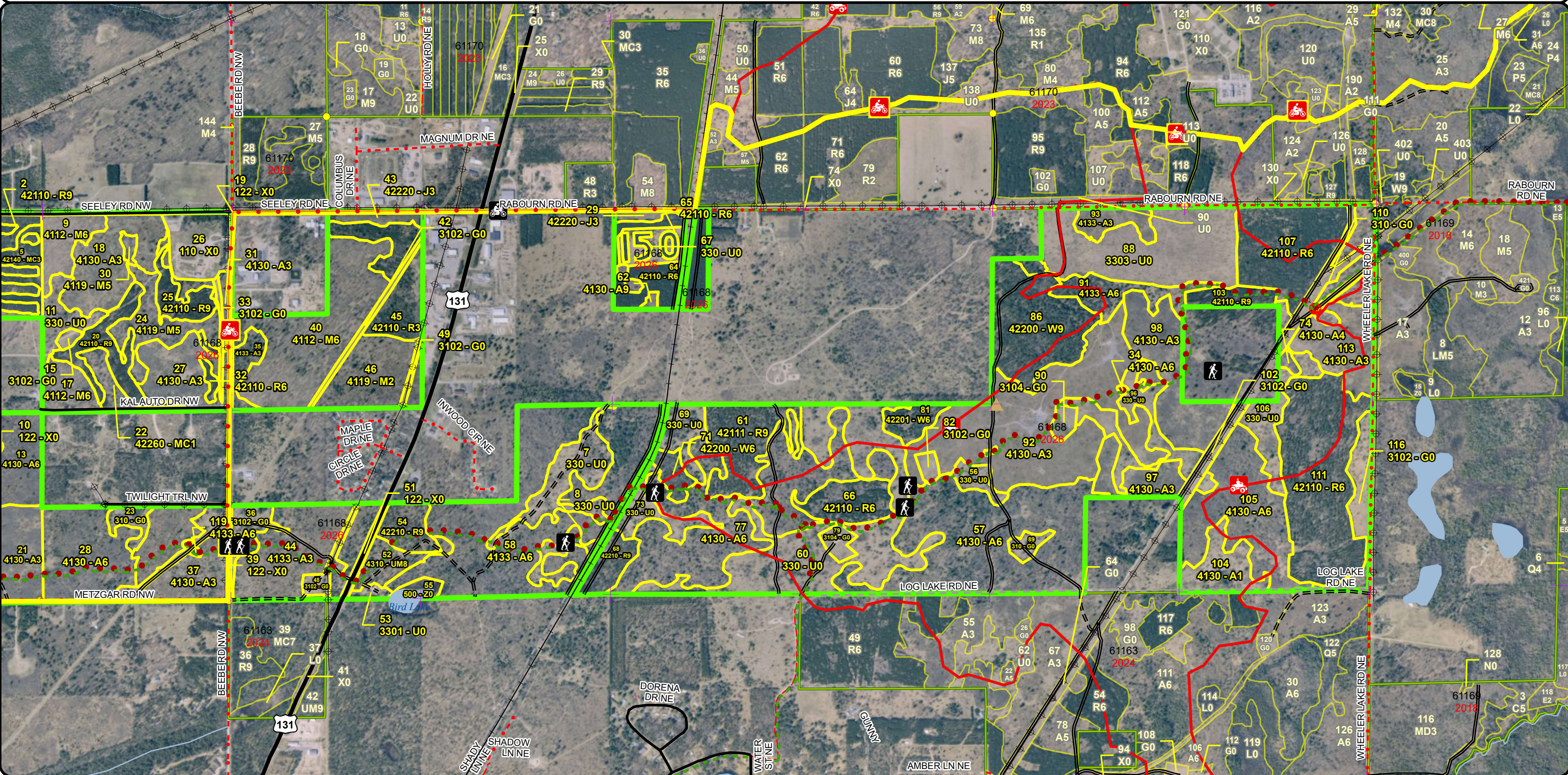
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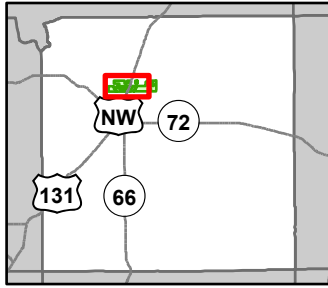


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**Special Conservation Areas & Site Conditions Map**

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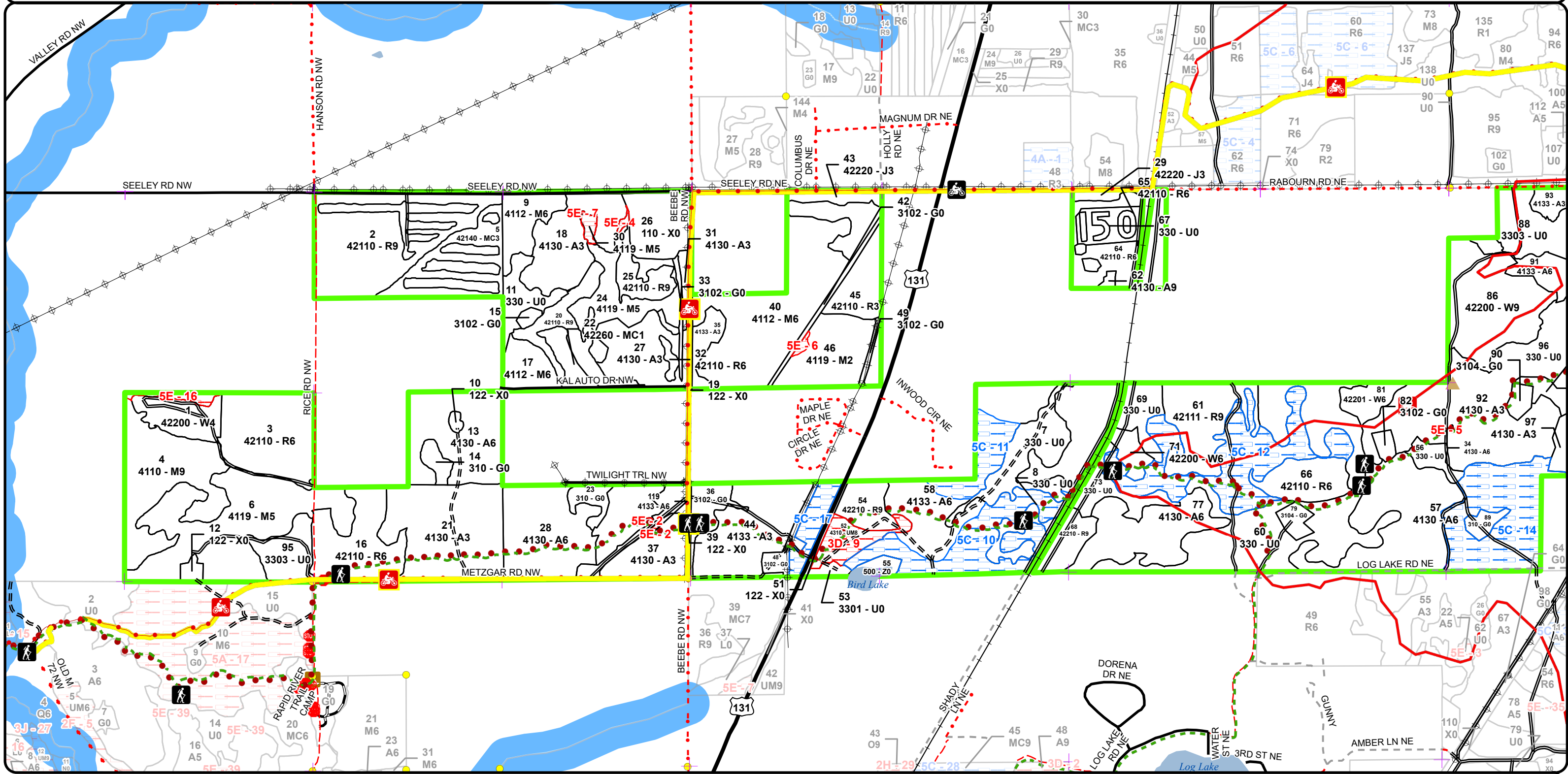
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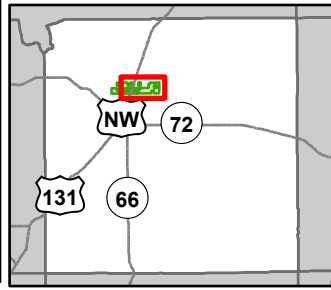
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- Lakes and Rivers
- Cold Water Streams
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- High Priority Trout Stream Buffer

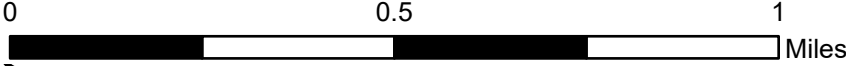




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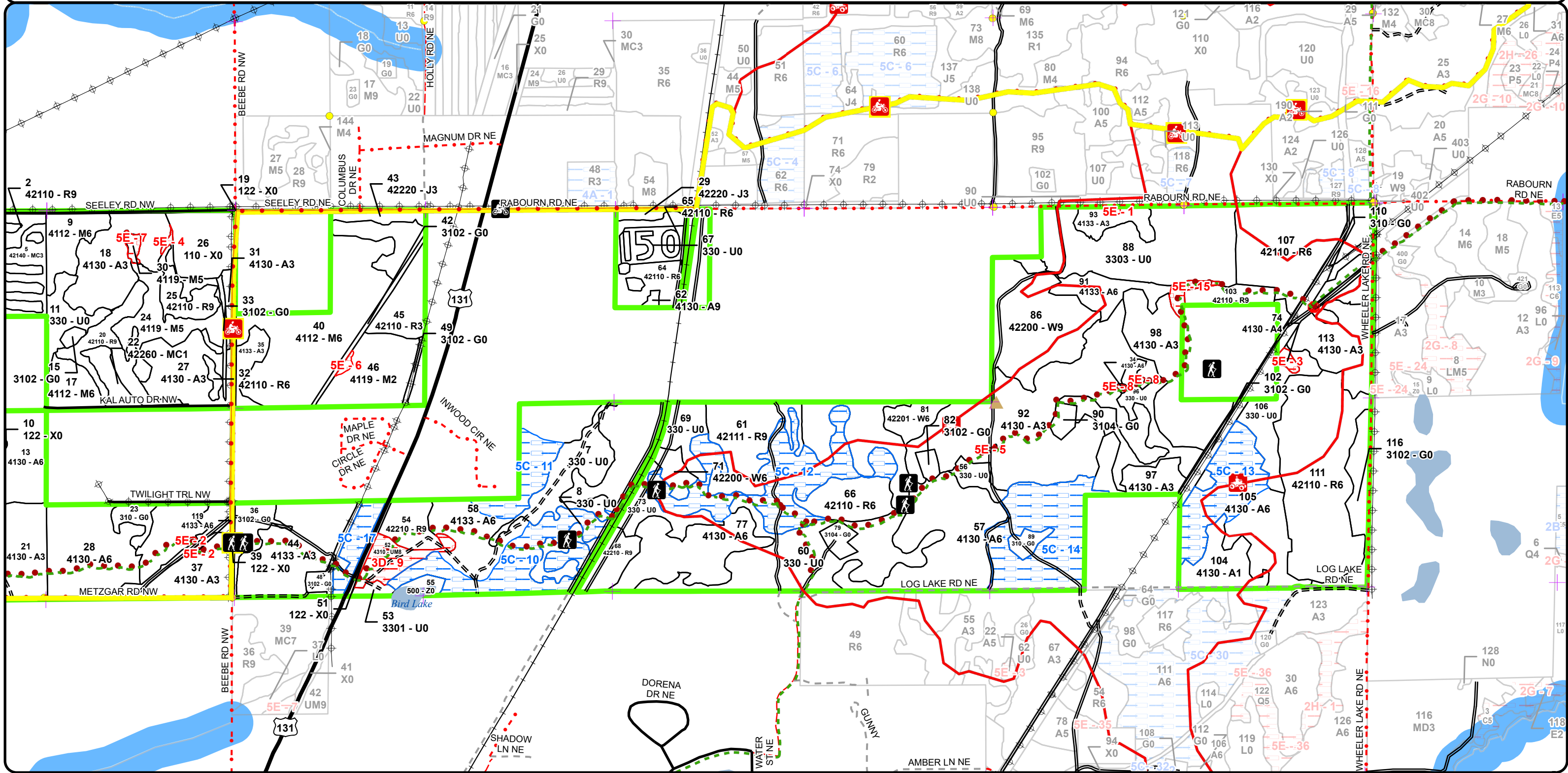
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Report 1 – Total Acres by Cover Type and Age Class



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+	Unseen-Aged	Total
Aspen	0	187	45	84	6	69	329	1	0	0	0	0	0	0	0	0	0	30	751
Herbaceous Openland	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Jack Pine	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Low-Density Trees	258	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	258
Natural Mixed Pines	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	26	0	60	0	0	0	20	0	0	0	0	0	0	0	0	0	123	228
Planted Mixed Pines	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Red Pine	0	0	24	38	27	26	170	7	78	0	0	0	0	0	0	0	0	0	370
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18
Urban	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	13	53	0	0	0	0	0	0	0	0	66
<b>Total</b>	<b>374</b>	<b>221</b>	<b>77</b>	<b>210</b>	<b>33</b>	<b>95</b>	<b>499</b>	<b>28</b>	<b>91</b>	<b>71</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>153</b>	<b>1851</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2026

Acres of Harvest

Compartment 168  
Total Compartment Acres: 1,853

Commercial Harvest - 228  
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	Oversyory Removal	Salvage	Other	Total Acres
Aspen	164	0	0	0	0	0	0	0	0	164
Northern Hardwood	0	40	0	0	0	0	0	0	0	40
Red Pine	0	0	0	0	0	24	0	0	0	24
<b>Total</b>	<b>164</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>228</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	228	0	0	0	0	0	54	0	168	450
Next Step	0	0	0	0	168	0	258	0	0	426
<b>Total</b>	<b>228</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>168</b>	<b>0</b>	<b>312</b>	<b>0</b>	<b>168</b>	<b>876</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>4</b>	<b>61168004-Cut</b>	40.2	4110 - Sugar Maple Association	Sawtimber Well	70	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription mark to cut the stand down to a residual basal area of 70-80 square feet per acre. Target the trees with top dieback or poor form for harvest.  
Specs: Create some 150'-200' regen gaps. It would be probably best to line these out and try to get about 5 of these in the sale area.

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

Acceptable sugar and red maple, cherry and some possible some pine.  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>7</b>	<b>61168007-NF</b>	20.5	330 - Low-Density Trees	Nonstocked	0		NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription Selectively 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. Possibly also could seed in additional native grasses and forbs.

Next Step Burn, Opening  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>56</b>	<b>61168056-NF</b>	5.0	330 - Low-Density Trees	Nonstocked	0		NonForestMgt	Brushpile/Woody Debris Creation	3204 - Mast Producing Shrub		No
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Prescription Selectively 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. Possibly also could seed in additional native grasses and forbs.

Next Step Burn, Opening  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>57 61168057-Cut</b>	46.4	4130 - Aspen	Poletimber Well	54	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand to regenerate aspen. Leave all oak and white pine.  <u>Specs:</u> Protect the rec trails, drum log spec and have considerations for oak wilt in mind during sale prep.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen, red maple, cherry, oak and mixed pines  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>58 61168058-Cut</b>	54.1	4133 - Aspen, Mixed Pine	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand to regenerate aspen. Leave all white oak. Green tree mark one or two white pine or red oak per acre.  <u>Specs:</u> Protect the rec trails, drum log spec and have considerations for oak wilt in mind during sale prep.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen, red maple, oak and mixed pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>60 61168060-NF</b>	71.5	330 - Low-Density Trees	Nonstocked	0		NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively 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. Possibly also could seed in additional native grasses and forbs.  <u>Specs:</u>  <u>Next Step</u> Burn, Opening  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>64 61168064-Cut</b>	23.5	42110 - Planted Red Pine	Poletimber Well	39	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut one row leave two. Remove a third of the volume.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u>  <u>Proposed Start Date:</u> 10/1 /2025</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
73	61168073-NF	9.8	330 - Low-Density Trees	Nonstocked	0		NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively 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. Possibly also could seed in additional native grasses and forbs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</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 /2025</p>											
77	61168077-Cut	30.9	4130 - Aspen	Poletimber Well	54	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest stand to regenerate aspen. Leave all white pine and white oak.</p> <p><u>Specs:</u> Protect the rec trails, drum log spec and have considerations for oak wilt in mind during sale prep.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, red maple, cherry, oaks and mixed pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
88	61168088-Monitor	53.5	3303 - Mixed Low Density Trees	Nonstocked		Immature	Monitoring	Artificial Regen(1yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; ; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully Stocked Free to Grow red pine</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
91	61168091-Cut	13.5	4133 - Aspen, Mixed Pine	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 4 inches and up. Mark to leave one white pine per acre . Protect recreation trails during the harvest and include drum log spec.</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, red maple, cherry and mixed pine which meets minimal stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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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95	61168095-NF	12.7	3303 - Mixed Low Density Trees	Nonstocked			NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub	No
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Prescription Hand fell or brush hog some trees to maintain opening and create some coarse woody debris. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Leave stumps to rot to provide future food source for insectivores, etc. Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment.

Next Step Burn, Opening  
Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

96	61168096-NF	19.7	330 - Low-Density Trees	Nonstocked		Immature	NonForestMgt	Brushpile/Woody Debris Creation	3204 - Mast Producing Shrub	No
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Prescription Selectively 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. Possibly also could seed in additional native grasses and forbs.

Next Step Burn, Opening  
Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

105	61168105-Cut	19.4	4130 - Aspen	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand to regenerate aspen. Leave all oak and white pine.

Specs: Protect the rec trails, drum log spec and have considerations for oak wilt in mind during sale prep.

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

Acceptable Regen: aspen, red maple, cherry, oak and mixed pine

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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
106 61168106-NF	29.2	330 - Low-Density Trees	Nonstocked		Immature	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively 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. Possibly also could seed in additional native grasses and forbs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</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 /2025</p>										

**Total Treatment Acreage Proposed: 449.9**



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Paul Roell: Examiner

Compartment: 168  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5C	3D	5E
753	589	<b>158</b>	6	Aspen	<b>158</b>		6
80	80	<b>0</b>	0	Herbaceous Openland			0
8	8	<b>0</b>	0	Jack Pine			
258	258	<b>0</b>	0	Low-Density Trees			0
8	8	<b>0</b>	0	Natural Mixed Pines			
228	223	<b>0</b>	6	Northern Hardwood			6
28	28	<b>0</b>	0	Planted Mixed Pines			
371	371	<b>0</b>	0	Red Pine			
18	0	<b>8</b>	10	Upland Mixed Forest	<b>8</b>	10	
32	32	<b>0</b>	0	Urban			
3	3	<b>0</b>	0	Water			
66	66	<b>0</b>	0	White Pine			
1,853	1,665	<b>167</b>	21	Total Forested Acres	<b>167</b>	10	11
	90%	<b>9%</b>	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	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Paul Roell: Examiner

Compartment: 168  
Year of Entry: 2026

4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3D: Recreational / Scenic values	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 168

Year of Entry: 2026

11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 168

Year of Entry: 2026

17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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### 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.

Conservation Area	Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	42200 - Natural White Pine	Poletimber Poor	13.0	80	1-50	N/A																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>White Pine</td> <td>85</td> <td>Pole/Sap/Log</td> <td>8</td> <td>80</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	15	Pole	6		White Pine	85	Pole/Sap/Log	8	80																														
Canopy Species	% Cover	Size Class	DBH	Age																																																
Black Cherry	15	Pole	6																																																	
White Pine	85	Pole/Sap/Log	8	80																																																
2	42110 - Planted Red Pine	Sawtimber Well	58.6	70	111-140	N/A	Thinned for the second time in 2009. Thinned again in 2017.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>100</td> <td>Log/Pole</td> <td>12</td> <td>70</td> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Jack Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	100	Log/Pole	12	70	Red Pine	Low	Variable	Sapling						Beech	Medium	Variable	Sapling						Jack Pine	Low	Variable	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
Red Pine	100	Log/Pole	12	70	Red Pine	Low	Variable	Sapling																																												
					Beech	Medium	Variable	Sapling																																												
					Jack Pine	Low	Variable	Sapling																																												
3	42110 - Planted Red Pine	Poletimber Well	34.5	55	141-170	N/A	First thinning winter 2016-17.																																													
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Canopy Species	% Cover	Size Class	DBH	Age																																																
White Pine	5	Pole/Log	8																																																	
Red Pine	95	Pole/Log	9	55																																																
4	4110 - Sugar Maple Association	Sawtimber Well	43.0	70	111-140	N/A	Stand was harvested during summer 2011, sale #61-025-06.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> <td>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Basswood</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> <td>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>75</td> <td>Log/Pole</td> <td>12</td> <td>70</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Beech	5	Pole/Log	8		Beech	Medium	Variable	Sapling	Red Maple	10	Log/Pole	10		Ironwood	Medium	Variable	Sapling	Basswood	10	Pole	8		Sugar Maple	Low	Variable	Sapling	Sugar Maple	75	Log/Pole	12	70				
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
Beech	5	Pole/Log	8		Beech	Medium	Variable	Sapling																																												
Red Maple	10	Log/Pole	10		Ironwood	Medium	Variable	Sapling																																												
Basswood	10	Pole	8		Sugar Maple	Low	Variable	Sapling																																												
Sugar Maple	75	Log/Pole	12	70																																																
5	42140 - Planted Mixed Pine	Sapling Well	28.3	25	Immature	N/A	Thinned for the second time in 2009. Thinned again in 2017. Photos seem to show 2 ages within the stand.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>55</td> <td>Sapling/Pole</td> <td>3</td> <td>25</td> </tr> <tr> <td>Jack Pine</td> <td>30</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	55	Sapling/Pole	3	25	Jack Pine	30	Sapling/Pole	3		White Pine	5	Sapling	2		Red Maple	5	Sapling/Pole	3		Black Cherry	5	Sapling	2																
Canopy Species	% Cover	Size Class	DBH	Age																																																
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Jack Pine	30	Sapling/Pole	3																																																	
White Pine	5	Sapling	2																																																	
Red Maple	5	Sapling/Pole	3																																																	
Black Cherry	5	Sapling	2																																																	
6	4119 - Mixed Northern Hardwoods	Poletimber Medium	60.0	24	1-50	N/A	Salvage sale from wind event, #61-153-98. Fairly consistent pole and log sized maple throughout the stand.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Ironwood</td> <td>25</td> <td>Sapling</td> <td>3</td> <td>24</td> </tr> <tr> <td>Beech</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>40</td> <td>Pole/Log/Sap</td> <td>6</td> <td>24</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>15</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Ironwood	25	Sapling	3	24	Beech	10	Sapling	2		Sugar Maple	40	Pole/Log/Sap	6	24	White Pine	10	Log/Pole	10		Black Cherry	15	Sapling	3																
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White Pine	10	Log/Pole	10																																																	
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7	330 - Low-Density Trees	Nonstocked	20.5	0		No																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
8	330 - Low-Density Trees	Nonstocked	6.3	0		No																																										
9	4112 - Maple, Beech, Cherry Association	Poletimber Well	12.4	75	81-110	N/A	Thinned spring 2016.																																									
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Beech	Low	Variable	Sapling																																													
10	122 - Road/Parking Lot	Nonstocked	1.0	0	Immature		active well																																									
11	330 - Low-Density Trees	Nonstocked	9.8		Immature	No	mostly large diameter red maple																																									
12	122 - Road/Parking Lot	Nonstocked	2.1			No	Active Well site																																									
13	4130 - Aspen	Poletimber Well	34.4	44	51-80	N/A																																										
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Canopy Species	% Cover	Size Class	DBH	Age																																												
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Jack Pine	5	Pole	8																																													
Red Maple	5	Pole/Sapling	5	44																																												
Quaking Aspen	35	Pole/Sapling	5	44																																												
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Sub-Canopy Species	Density	Avg. Height	Size																																													
Black Cherry	Medium	Variable	Sapling																																													
White Pine	Low	5 - 10 feet	Sapling																																													
14	310 - Herbaceous Openland	Nonstocked	3.7		Immature	No	open stand																																									
15	3102 - Grass	Nonstocked	1.5		Immature	No	looks like old mowed area																																									
16	42110 - Planted Red Pine	Poletimber Well	27.9	55	141-170	N/A	First thinning winter 2016-17.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>100</td> <td>Pole/Log</td> <td>8</td> <td>55</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Pole/Log	8	55																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 4112 - Maple, Beech, Cherry Association Poletimber Well 10.7 64 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole	6		Beech	Low	Variable	Sapling
White Pine	2	Log/Pole	10		White Pine	Low	Variable	Sapling
Ironwood	2	Pole	6		Ironwood	Low	Variable	Sapling
Red Maple	59	Pole/Log	8	64				
Bigtooth Aspen	10	Pole/Log	9					
Sugar Maple	25	Pole/Log	8					

18 4130 - Aspen Sapling Well 30.2 7 Immature N/A harvested 2016

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	65	Sapling	2	7
Red Maple	20	Sapling	1	3
Black Cherry	5	Sapling	1	
Beech	5	Sapling	1	
White Pine	5	Sapling	4	

19 122 - Road/Parking Lot Nonstocked 6.8 No Road

20 42110 - Planted Red Pine Sawtimber Well 16.4 53 111-140 N/A First thinning sprin 2016.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Log/Pole	12		Beech	Low	5 - 10 feet	Sapling
Red Pine	98	Log/Pole	10	53	Cherry (spp.)	Low	Variable	Sapling

21 4130 - Aspen Sapling Well 47.5 25 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	50	Sapling	4	25
Black Cherry	10	Sapling	2	
White Pine	5	Sapling	3	
Quaking Aspen	30	Sapling	4	25
Jack Pine	5	Sapling	3	

22 42260 - Natural Pine, Mixed Deciduous Sapling Poor 7.5 16 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	20	Sapling	3	16
Black Cherry	5	Sapling/Pole	3	
Scotch Pine	35	Sapling	3	16
Bigtooth Aspen	5	Sapling	3	
White Pine	10	Sapling	3	
Red Maple	25	Pole/Log/Sap	8	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 310 - Herbaceous Openland Nonstocked 4.8 0 No

24 4119 - Mixed Northern Hardwoods Poletimber Medium 17.6 67 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole	6		Beech	Low	Variable	Sapling
Bigtooth Aspen	10	Pole/Log	8					
Jack Pine	5	Pole	6					
Black Cherry	5	Pole	8					
White Pine	10	Log	12					
Red Maple	65	Pole/Log	8	67				

25 42110 - Planted Red Pine Sawtimber Well 9.1 52 111-140 N/A First thinning spring 2016.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Log	16		Beech	Low	5 - 10 feet	Sapling
Red Pine	94	Log/Pole	10	52				
Black Cherry	3	Pole	8					

26 110 - Low Intensity Urban Nonstocked 17.4 No Leased as a oil and gas facility.

27 4130 - Aspen Sapling Well 21.8 24 1-50 N/A Salvage cut in 1999

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Sapling	3	
Red Maple	10	Sapling	3	
Quaking Aspen	20	Sapling	4	24
Jack Pine	5	Sapling	3	
Bigtooth Aspen	55	Sapling/Pole	4	24
White Pine	5	Sapling	3	

28 4130 - Aspen Poletimber Well 35.0 45 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	3	Sapling	3	
Red Maple	3	Pole/Log	8	
Quaking Aspen	35	Pole	8	45
White Pine	2	Pole	8	
Bigtooth Aspen	55	Pole	8	45
Jack Pine	2	Pole	6	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**29** 42220 - Natural Jack Pine Sapling Well 2.7 7 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	80	Sapling	2	7
Red Maple	5	Sapling	1	
White Pine	5	Sapling	1	
Black Cherry	10	Sapling	1	

**30** 4119 - Mixed Northern Hardwoods Poletimber Medium 2.2 67 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Pole	6		Beech	Low	Variable	Sapling
White Pine	10	Log	12					
Black Cherry	5	Pole	8					
Bigtooth Aspen	10	Pole/Log	8					
Red Maple	65	Pole/Log	8	67				
Quaking Aspen	5	Pole	6					

**31** 4130 - Aspen Sapling Well 2.6 8 Immature N/A Cut spring 2017.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Jack Pine	10	Sapling	3	
White Pine	5	Sapling	1	
Bigtooth Aspen	45	Sapling	2	8
Black Cherry	5	Sapling	1	
Quaking Aspen	25	Sapling	1	

**32** 42110 - Planted Red Pine Poletimber Well 2.5 52 111-140 N/A First thinning spring 2016.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Pole/Log	9	52

**33** 3102 - Grass Nonstocked 1.9 Immature No Pipeline

**34** 4130 - Aspen Poletimber Well 0.7 60 51-80 N/A Heavier to white pine in NW part of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Log	8		Black Cherry	Low	Variable	
Quaking Aspen	50	Pole/Sapling	8	60	Quaking Aspen	Low	Variable	Sapling
White Pine	10	Log/Pole	12		White Pine	Low	Variable	Sapling
Bigtooth Aspen	35	Pole/Log	8					
Black Cherry	2	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
<b>35</b>	4133 - Aspen, Mixed Pine	Sapling Well	6.3	30	Unspecified	N/A																																									
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White Pine	Medium	5 - 10 feet	Sapling																																												
<b>36</b>	3102 - Grass	Nonstocked	15.4			No	opening/Pipeline																																								
<b>37</b>	4130 - Aspen	Sapling Well	30.0	7	Immature	N/A	168 Epicenter Sale Closed spring of 2018																																								
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White Pine	15	Pole/Sapling	5																																												
Quaking Aspen	35	Sapling	1	7																																											
<b>39</b>	122 - Road/Parking Lot	Nonstocked	1.6		Immature	No	Beebe Road																																								
<b>40</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	56.4	65	51-80	N/A	Thinned in 2006 - 61-025-06-01																																								
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Canopy Species	% Cover	Size Class	DBH	Age																																											
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Ironwood	Medium	Variable	Sapling																																												
White Pine	Low	Variable	Sapling																																												
<b>42</b>	3102 - Grass	Nonstocked	3.6			No	pipeline																																								
<b>43</b>	42220 - Natural Jack Pine	Sapling Well	5.2	6	Immature	N/A																																									
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Jack Pine	65	Sapling	1	6																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>44</b>	4133 - Aspen, Mixed Pine	Sapling Well	33.6	7	Immature	N/A	168 Epicenter Sale Closed spring of 2018
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log/Pole	10		Red Maple	Low	Variable	Sapling
Bigtooth Aspen	20	Sapling	1		White Pine	Low	Variable	Sapling
Red Pine	5	Pole/Sapling	6		Beech	Low	Variable	Sapling
Quaking Aspen	30	Sapling	1	7				
Red Maple	25	Sapling	1					
White Pine	15	Pole/Sap/Log	6					

<b>45</b>	42110 - Planted Red Pine	Sapling Well	23.9	18	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	75	Sapling/Pole	4	18
Black Cherry	5	Pole/Sapling	6	
Jack Pine	10	Sapling	4	
White Pine	10	Pole/Sap/Log	8	

<b>46</b>	4119 - Mixed Northern Hardwoods	Sapling Medium	25.9	8	Immature	N/A	168 Epicenter Sale Closed spring of 2018
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling/Pole	1	8
White Pine	10	Pole	8	
Beech	15	Sapling	1	8
Black Cherry	15	Sapling	1	
Sugar Maple	10	Pole/Log	8	
Ironwood	10	Sapling	1	
Bigtooth Aspen	10	Sapling	1	

<b>48</b>	3102 - Grass	Nonstocked	4.9			No	Abandon well site and power line.
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<b>49</b>	3102 - Grass	Nonstocked	1.5			No	Powerline
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<b>51</b>	122 - Road/Parking Lot	Nonstocked	2.9			No	131
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<b>52</b>	4310 - Pine, Oak Mix	Sawtimber Medium	18.0	80	51-80	N/A	168 Epicenter Sale Closed spring of 2018
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	55	Log/Pole	12	80	Bigtooth Aspen	High	5 - 10 feet	Sapling
Red Oak	45	Pole/Log	8		Beech	Low	5 - 10 feet	Sapling
					Red Maple	Medium	5 - 10 feet	Sapling
					White Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**53** 3301 - Low Density Deciduous Trees Nonstocked 2.1 Immature No Scattered red and white pine and the bird lake access site.

**54** 42210 - Natural Red Pine Sawtimber Well 10.0 77 81-110 N/A 168 Epicenter Sale Closed spring of 2018

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
Red Pine	85	Log	12	77	Bigtooth Aspen	Medium	5 - 10 feet	Sapling
Red Maple	5	Log	12		White Pine	Low	Variable	Sapling
					Beech	Low	Variable	Sapling

**55** 500 - Water Nonstocked 3.5 No Bird Lake

**56** 330 - Low-Density Trees Nonstocked 5.0 0 No

**57** 4130 - Aspen Poletimber Well 87.0 54 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	12		Red Maple	Low	Variable	Sapling
Quaking Aspen	35	Pole/Log	8	54	Jack Pine	Low	Variable	Sapling
Jack Pine	5	Pole	8		Cherry (spp.)	Low	Variable	Sapling
Bigtooth Aspen	44	Pole/Log	8	54	White Pine	Low	Variable	Sapling
Black Cherry	5	Pole	8		Aspen (spp.)	Medium	Variable	Sapling
Red Oak	1	Pole/Log	8					
White Pine	5	Pole/Log	8					

**58** 4133 - Aspen, Mixed Pine Poletimber Well 100.1 50 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole	6		Beech	Low	Variable	Sapling
Bigtooth Aspen	34	Pole/Log	8	50	Cherry (spp.)	Low	Variable	Sapling
Quaking Aspen	30	Pole/Log	8	50	White Pine	Low	Variable	Sapling
White Pine	15	Pole/Log	8					
Jack Pine	5	Pole	7					
Red Pine	10	Pole/Log	8					
Red Oak	1	Pole/Log	8					

**60** 330 - Low-Density Trees Nonstocked 71.5 0 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**61** 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 25.9 47 111-140 N/A Stand density varies.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Bigtooth Aspen	10	Log/Pole	10	
Black Cherry	5	Pole	8	
Red Pine	80	Log/Pole	10	47

**62** 4130 - Aspen Sawtimber Well 2.3 57 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	85	Log/Pole	10	57	Red Maple	Low	Variable	Sapling
Black Cherry	10	Pole	8					
Red Maple	5	Pole	6					

**64** 42110 - Planted Red Pine Poletimber Well 23.5 39 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	95	Pole	7	39
Black Cherry	5	Pole	6	

**65** 42110 - Planted Red Pine Poletimber Well 3.5 36 171-200 N/A 150 logo

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Pole	7	36

**66** 42110 - Planted Red Pine Poletimber Well 14.9 50 81-110 N/A Stand density varies.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Black Cherry	5	Pole	8	
Red Pine	90	Pole/Log	8	50

**67** 330 - Low-Density Trees Nonstocked 6.8 No filling in with jack pine and cherry

**68** 42210 - Natural Red Pine Sawtimber Well 9.2 74 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	12		White Pine	Low	Variable	Sapling
Red Oak	5	Log/Pole	10		Beech	Low	Variable	Sapling
Red Pine	75	Log/Pole	14	74				
Bigtooth Aspen	15	Pole/Log	8					

**69** 330 - Low-Density Trees Nonstocked 9.8 0 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>71</b>	42200 - Natural White Pine	Poletimber Well	5.7	70	81-110	N/A	Railroad adjacent to stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	75	Pole/Log	8	70	White Pine	Low	Variable	Sapling
Red Maple	10	Pole	8		Maple (spp.)	Low	Variable	Sapling
Bigtooth Aspen	15	Pole/Log	8					

<b>73</b>	330 - Low-Density Trees	Nonstocked	9.8	0		No	
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<b>74</b>	4130 - Aspen	Poletimber Poor	1.4	58		N/A	Was called a U type last time. Aspen is starting to fill in. Retention from stand 113
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Pole/Log/Sap	6	58	White Pine	Low	Variable	Sapling
White Pine	5	Log/Pole	10		Aspen (spp.)	Low	Variable	Sapling
Black Cherry	10	Sapling/Pole	3					

<b>77</b>	4130 - Aspen	Poletimber Well	76.4	54	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Pole/Log	8		Red Maple	Low	Variable	Sapling
Jack Pine	5	Pole	8		Aspen (spp.)	Medium	Variable	Sapling
Black Cherry	5	Pole	6		White Pine	Low	Variable	Sapling
Bigtooth Aspen	35	Pole/Log	9	54	Cherry (spp.)	Low	Variable	Sapling
Red Maple	5	Log/Pole	12		Jack Pine	Low	Variable	Sapling
Quaking Aspen	40	Pole/Log	9	54				

<b>79</b>	3104 - Degraded	Nonstocked	3.8			No	Old well site plugged after 2000.
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<b>81</b>	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	7.3	70	51-80	N/A	Pipeline runs through stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	2	Pole	8		White Pine	Low	Variable	Sapling
Red Maple	2	Pole	8					
Bigtooth Aspen	31	Pole/Log	8					
White Pine	65	Pole/Log	8	70				

<b>82</b>	3102 - Grass	Nonstocked	2.3				Old well site.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
<b>86</b>	42200 - Natural White Pine	Sawtimber Well	40.2	87	141-170	N/A																																										
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<b>88</b>	3303 - Mixed Low Density Trees	Nonstocked	55.1		Immature	4211 - Planted Red Pine	2024 - Stand was Planted to 793 Trees per Acre of Red Pine on 5/3/2024 2023 - Stand was Helicopter Site Prep Sprayed 8/15/2023 by Hamilton Helicopters Inc. 2021 - Stand was Trenched																																									
<b>89</b>	310 - Herbaceous Openland	Nonstocked	3.4		Immature	No																																										
<b>90</b>	3104 - Degraded	Nonstocked	3.1				Old well site plugged after 2000.																																									
<b>91</b>	4133 - Aspen, Mixed Pine	Poletimber Well	16.4	55	51-80	N/A																																										
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<b>92</b>	4130 - Aspen	Sapling Well	90.2	5	Immature	N/A																																										
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<b>95</b>	3303 - Mixed Low Density Trees	Nonstocked	12.7			No	cherry and white pine filling in																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
96	330 - Low-Density Trees	Nonstocked	19.7		Immature	No																																																																
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102	3102 - Grass	Nonstocked	5.7		Immature	No	Powerline/pipeline																																																															
103	42110 - Planted Red Pine	Sawtimber Well	7.4	64	141-170	N/A	First thinning in 2008, sale #61-070-06																																																															
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106	330 - Low-Density Trees	Nonstocked	29.2		Immature	No																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**107** 42110 - Planted Red Pine Poletimber Well 38.3 28 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	97	Pole/Sapling	5	28
Black Cherry	3	Sapling	4	

**110** 310 - Herbaceous Openland Nonstocked 10.7 Immature No Pipeline/Electric line

**111** 42110 - Planted Red Pine Poletimber Well 64.8 50 111-140 N/A Stand density varies.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	85	Pole/Log	8	50	Red Maple	Medium	5 - 10 feet	Sapling
Black Cherry	5	Pole	8					
White Pine	5	Pole/Log	8					
Red Maple	5	Pole	8					

**113** 4130 - Aspen Sapling Well 22.4 5 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	35	Sapling	1	5
Red Maple	10	Sapling	1	5
Quaking Aspen	30	Sapling	1	5
Black Cherry	20	Sapling	1	5
Sugar Maple	5	Pole/Sapling	6	

**116** 3102 - Grass Nonstocked 13.4 No log landing in stand from adjacent stand thinning

**119** 4133 - Aspen, Mixed Pine Poletimber Well 0.6 65 51-80 N/A retention island

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	8		White Pine	High	Variable	Sapling
Bigtooth Aspen	40	Pole/Log	8	65				
White Pine	35	Pole/Log	8					