



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61170

Entry Year 2023

Acreage: 1,891

County Kalkaska

Management Area: Boardman Plains

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**Revision Date:** 2021-05-24

**Stand Examiner:** Pat Ruppen

**Legal Description:**

T28N, R7W, Sec. 26-28, 33-35

**Identified Planning Goals:**

Harvest some declining aspen to create new age class and balance age class distribution. Harvest and re-plant a red pine stand with some adjoining low stocked poor quality deciduous mix. Harvest a declining planted jack pine stand and plant to red pine after harvest. Crown thin several over-stocked red pine stands.

**Soil and topography:**

Flat except near the Rapid River valley and the two tributaries. Mostly this is abandoned farm land on a Kalkaska soil. There is some Rubicon in section 35 and the very east part of section 26.

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

Only Section 35 has much block ownership. The rest of this compartment is fractionalized. The Compartment is only three miles north of Kalkaska on US-131. The area has some oil and gas activity but most of the compartment area is managed forestland.

**Unique Natural Features:**

Osprey nesting in the vicinity of the compartment as well as Red-shouldered and E. Bald eagle. Eastern flatwhorl (snail) to North. Spotted turtle to West. Red-legged spittlebug to East. Great blue heron to South, Kirtland's warbler to Southwest.

Archeological, Historical

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

No areas listed. Old homestead sites in sections 28 & 33.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

A small un-named tributary to the Rapid River flows through this compartment. This tributary is a designated Type 1 trout stream. Since this is considered a high quality stream it is not stocked and the trout populations are supported only by natural reproduction. To keep this stream in good condition, it is critical that all BMPs are strictly adhered to.

**Wildlife Habitat Considerations:**

This compartment is about half each in flat outwash plain (LTA 5111) and pitted outwash plain (LTA 5211). These LTAs were historically prone to frequent burning and harbored mixed pine forests, barrens, and some components of oak, and hardwoods. The compartment should continue to be managed for a variety of successional stages of pine-oak-aspen forest and grass-shrub openings, with some mid- to late-successional forest. Most of the state land here appears to have a long history of human use, from timber harvest to agriculture to conifer plantations and slowly encroaching deciduous forest. Remnants of northern hardwood forest, once more common on these landscapes, should be maintained through selective harvest and allowed to advance into adjacent red pine plantations as much as possible to create mixed hardwood-conifer stands in the long run. Thinning pine plantations will help move stands in this direction. Abandoned oil well sites could be planted to conifers (e.g. red pine) to reforest the sites and serve as a nurse crop for eventual conversion to mixed hardwood/conifer. Large patches of pole sized aspen and upland brush cover much of sections 26 and 35. Maintaining a diversity of aspen age classes in this area, as well as a component of hardwoods, will enhance habitat for species adapted to this fire-driven dynamic landscape. Such harvesting should incorporate residual live trees (preferably in patches), snags, and some down logs to replicate within-stand habitat structure left after wildfires. Upland brush types should be maintained by burning or mechanical treatment to maintain openland habitat and enhance warm season grasses. Pine/aspen upland forests and openland 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. A

small portion of this compartment falls in LTA 5549, a narrow outwash channel along the Rapid River. Bottomland forest along the river bottom is important for species such as white-tailed deer, bobcat, pileated woodpecker and snowshoe hare, and should be maintained in mature cover to protect riparian habitat. Osprey and little brown bats have been known to occur in this compartment and appropriate precautions/BMPs should be followed.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600

feet. Beneath the glacial drift is the Mississippian Coldwater Shale. There is no current economic use for the Coldwater Shale. Gravel pits are located in Sections 29 and 32. Gravel potential in the compartment is considered good. This area is located along the northern edge of the Guelph (Niagaran) reef trend. Considerable development and production has occurred in the compartment. There may be additional reef potential. The Antrim Shale has not been developed in the area, but may have potential.

### **Vehicle Access:**

There is good gravel access on the south and the north end of the compartment with poor dirt roads in the interior of the compartment.

### **Survey Needs:**

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

Leetsville ORV trail runs through sections 26, 34

### **Fire Protection:**

Fire response for this compartment is provided by the MDNR Kalkaska Field Office. Due to its proximity from the field office travel time is good. Road access in the area is good with a nearby water source being available for fire suppression support. Safety concerns during a fire event would be the Penn Central railroad and M-66 traffic as well as some residential and business properties. Fire assistance is provided by local township volunteer fire departments and DNR resources from Grayling as needed.

### **Additional Compartment Information:**

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

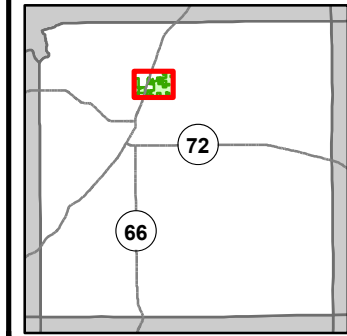
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

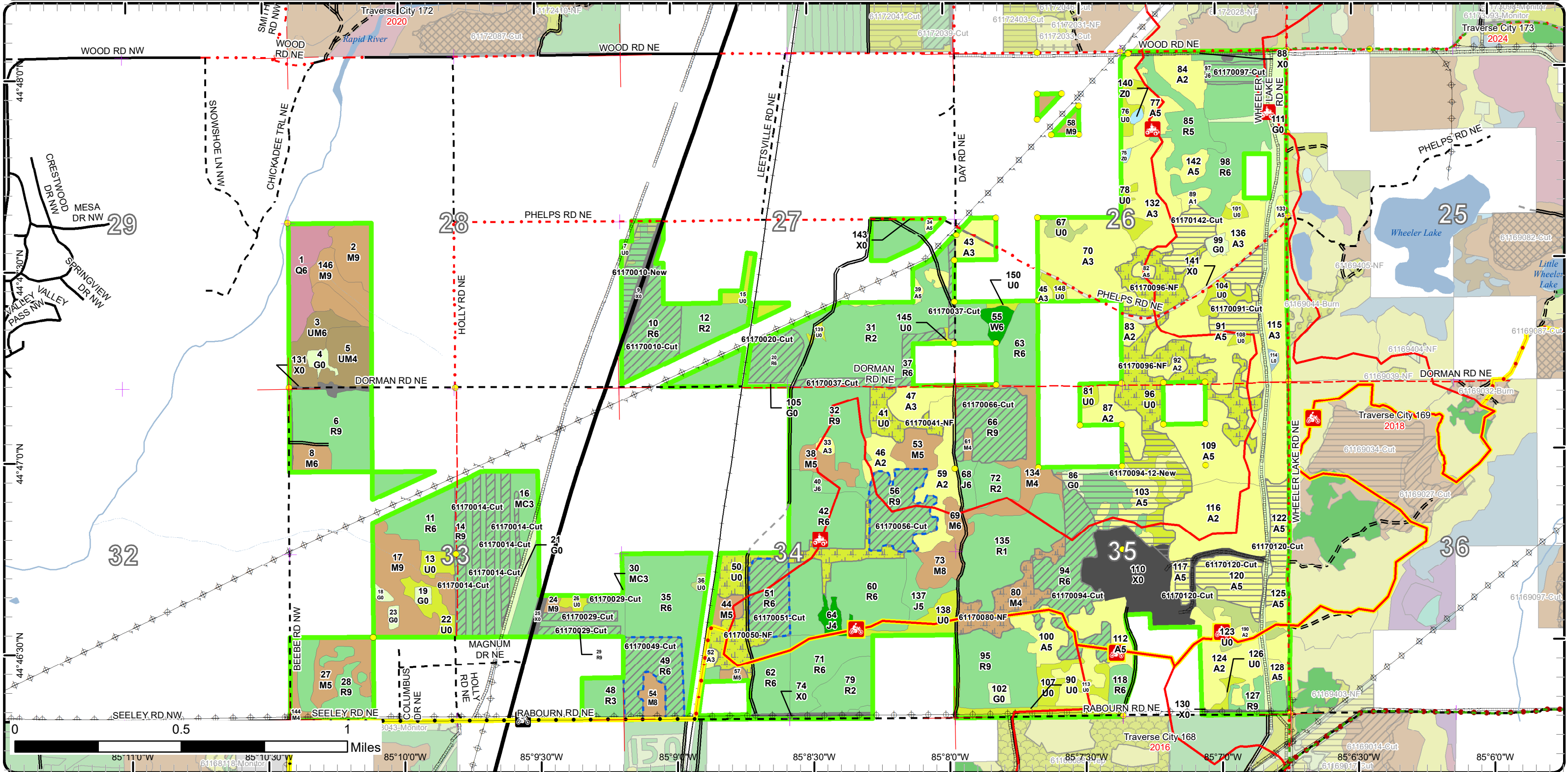
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 170  
 T28N, R07W, Sec. 26-28, 33-35  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Boardman Plains  
 YOE: 2023  
 Acres: 1891 GIS Calculated  
 Examiner: Pat Ruppen  
 Map Revised: 9/15/2021  
 Map Phase: Post-Review

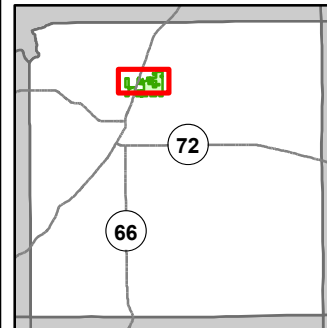


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland

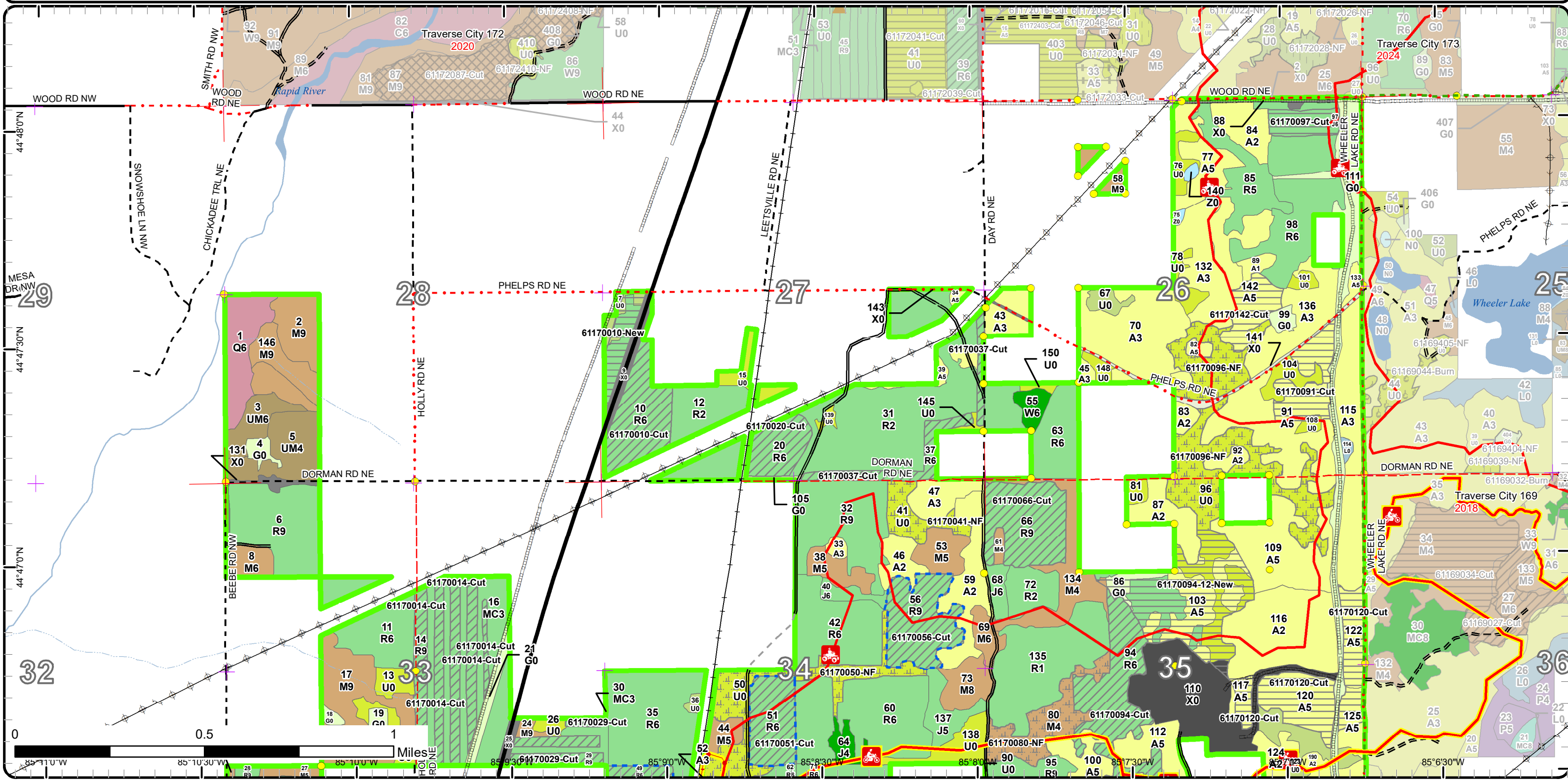


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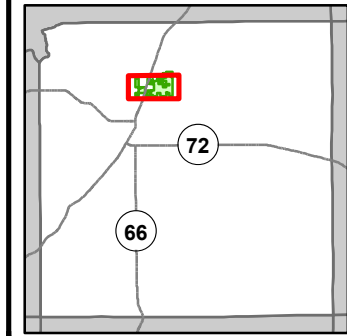


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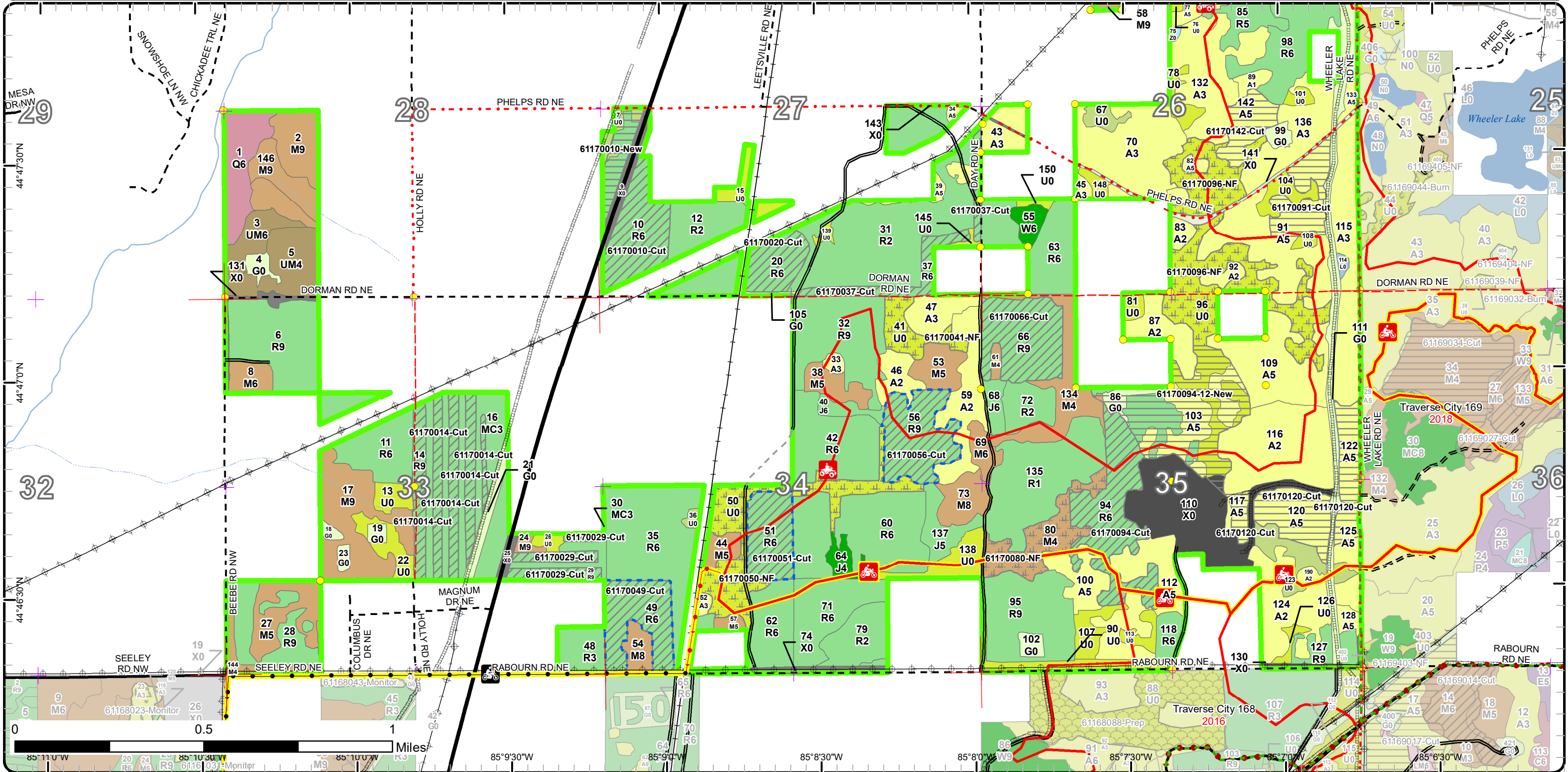


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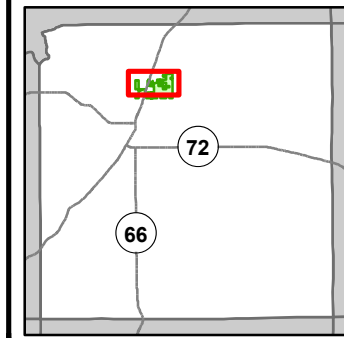


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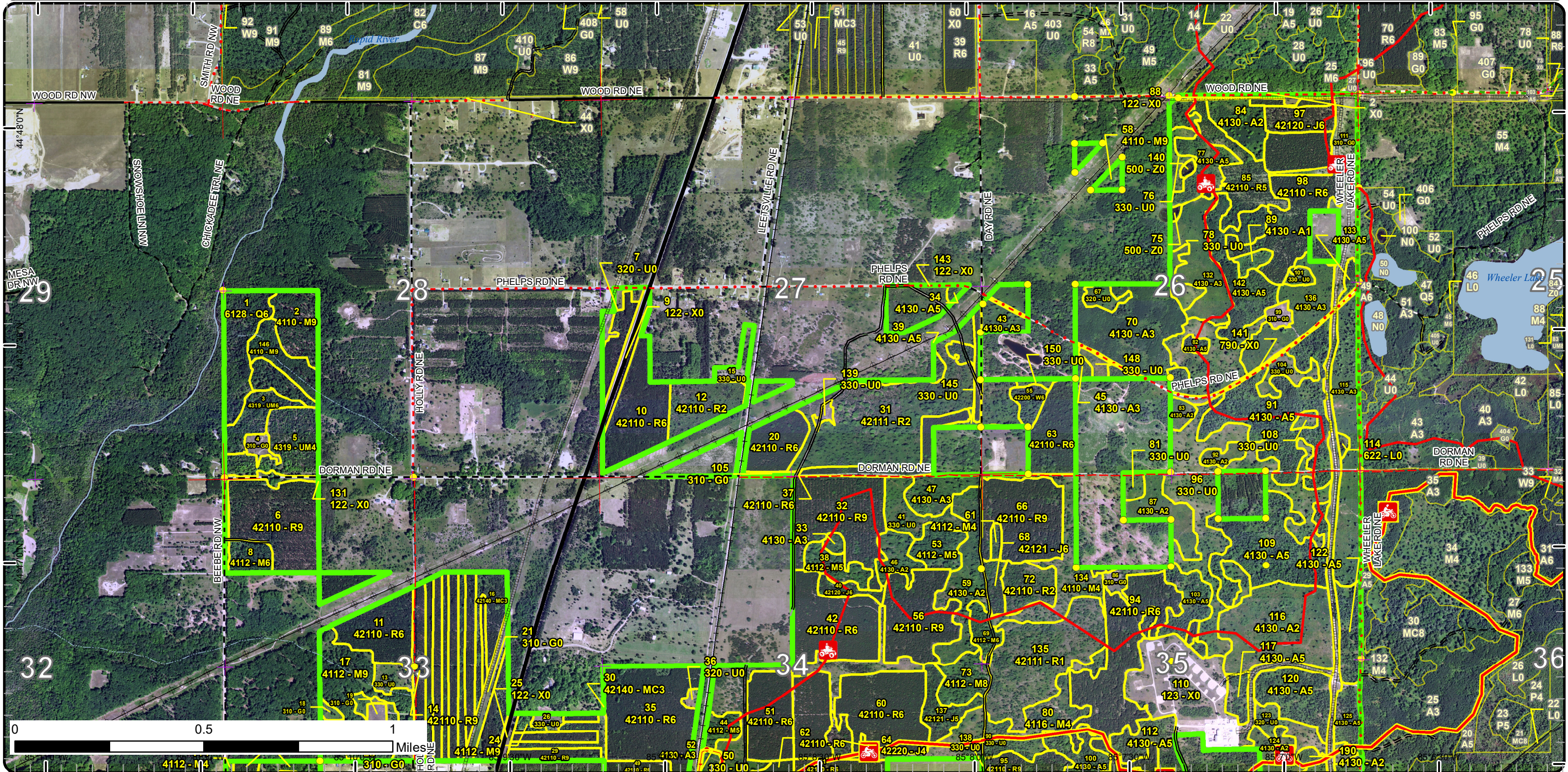


# Stand Boundary Map

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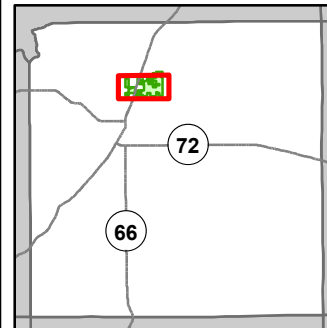


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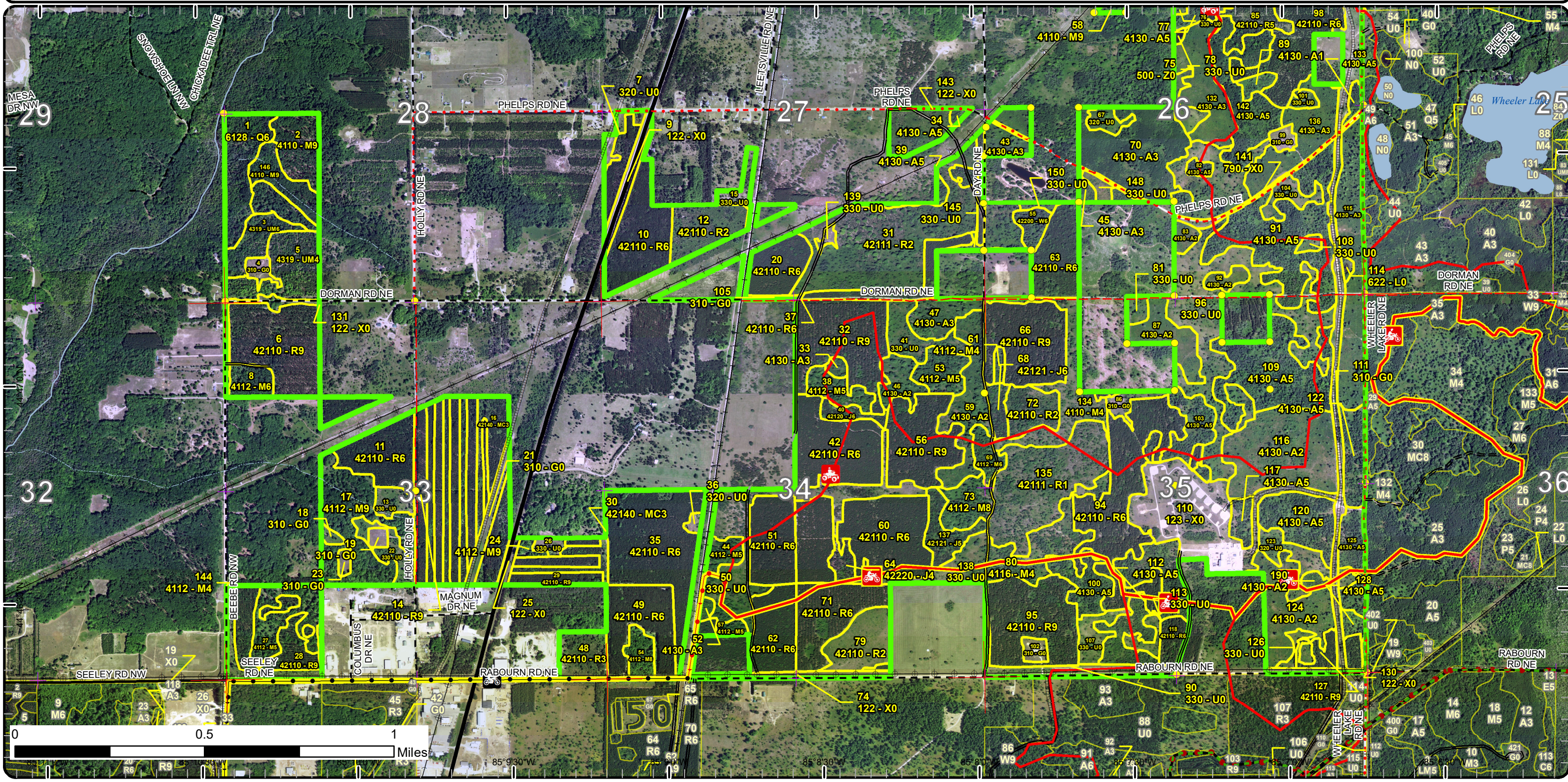


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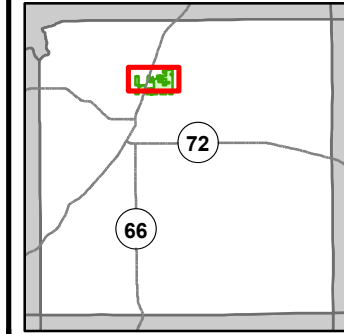


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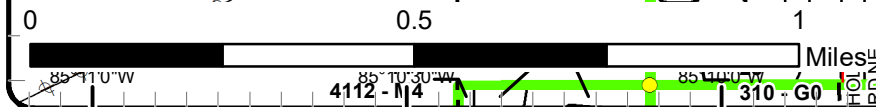
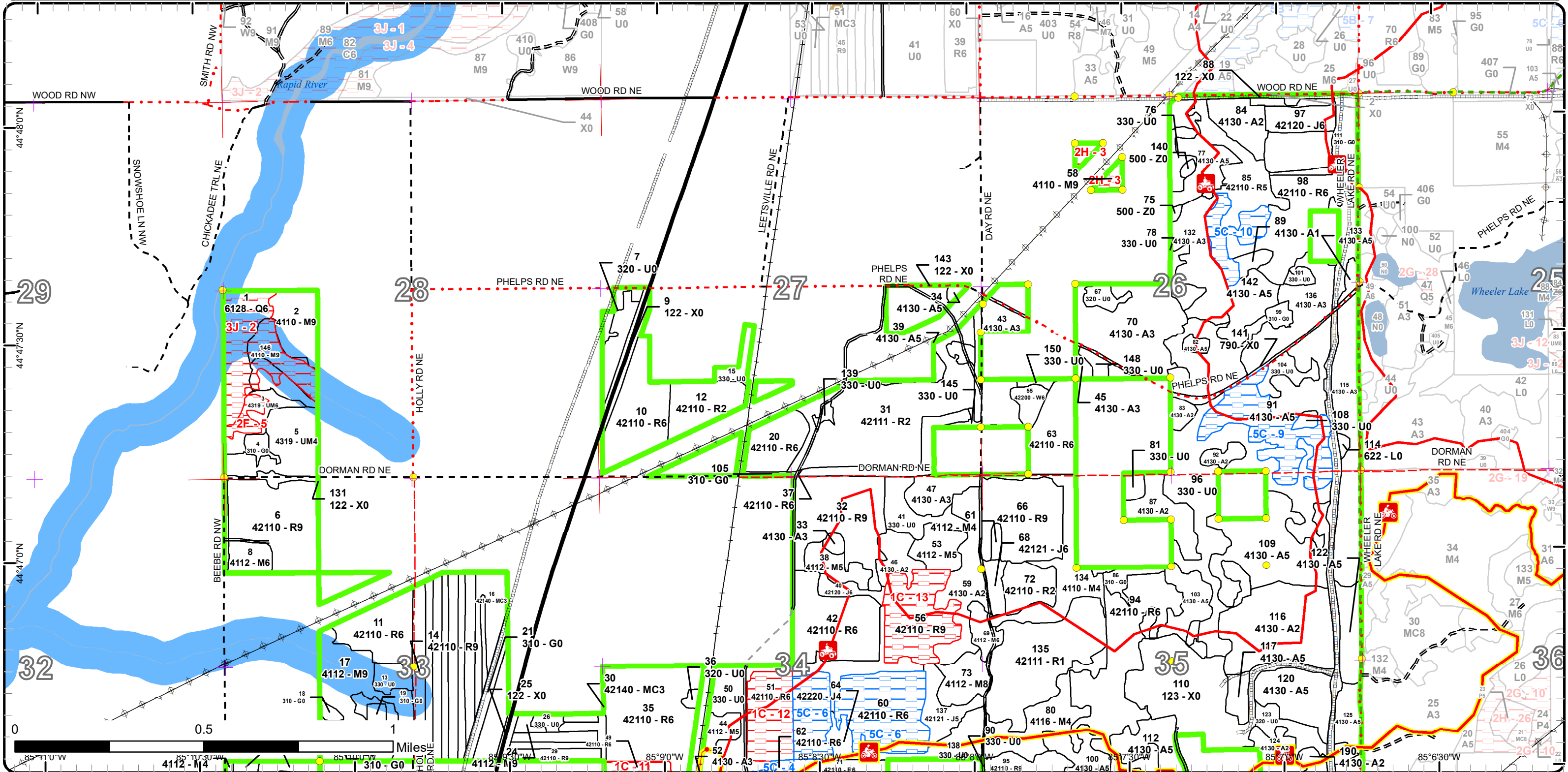


# Special Conservation Areas

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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer







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	199	51	0	0	209	3	0	0	0	0	0	0	0	0	0	0	0	462
Bare/Sparsely Vegetated	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Herbaceous Openland	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Jack Pine	0	0	0	17	0	5	8	0	0	0	0	0	0	0	0	0	0	0	30
Low-Density Trees	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	188
Lowland Conifers	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	18
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Northern Hardwood	0	0	0	0	0	41	8	41	53	6	29	0	0	0	0	0	0	0	178
Planted Mixed Pines	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Red Pine	0	14	156	206	81	239	17	31	45	0	0	0	0	0	0	0	0	0	789
Upland Mixed Forest	0	0	0	0	0	0	19	0	9	0	0	0	0	0	0	0	0	0	28
Upland Shrub	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Urban	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>339</b>	<b>213</b>	<b>207</b>	<b>266</b>	<b>81</b>	<b>494</b>	<b>55</b>	<b>77</b>	<b>125</b>	<b>6</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1891</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2023

Acres of Harvest

Compartment 170  
Total Compartment Acres: 1,891

Commercial Harvest - 285  
Harvests with Site Condition - 66  
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	61	0	0	0	0	0	0	0	0	61
Jack Pine	8	0	0	0	0	0	0	0	0	8
Low-Density Trees	48	0	0	0	0	0	0	0	0	48
Red Pine	9	0	0	0	0	225	0	0	0	233
<b>Total</b>	<b>126</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>350</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	350	0	0	0	0	0	0	0	115	465
Next Step	0	65	65	0	0	65	61	0	0	256
<b>Total</b>	<b>350</b>	<b>65</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>65</b>	<b>61</b>	<b>0</b>	<b>115</b>	<b>721</b>



S t a n d	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>10</b>	<b>61170010-Cut</b>	23.9	42110 - Planted Red Pine	Poletimber Well	35	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Avg ba 197. 3 stick avg. Should thin within rows to bring ba down to 120. . 12' rows. Should be able to thin within rows. Some are more</p> <p><u>Specs:</u> narrow but should be able to make it work. Remove jp as possible.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red 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 /2022</p>											
<b>10</b>	<b>61170010-New</b>	8.7	42110 - Planted Red Pine	Poletimber Well	35	171- 200	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> This part of stand is mix of planted red pine and jack pine. Jack pine is declining and falling out. Final Harvest and plant red pine. Clean up</p> <p><u>Specs:</u> parts of stand 7 that can be planted and include in treatment. No retention due to small stand size.</p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>14</b>	<b>61170014-Cut</b>	35.2	42110 - Planted Red Pine	Sawtimber Well	70	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Reduce basal area to 120. Evaluate two die back pockets in western most strip.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Average ba 180</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>20</b>	<b>61170020-Cut</b>	13.2	42110 - Planted Red Pine	Poletimber Well	37	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Avg Ba 178. 3 stick average. Mark in rows to bring ba down to 120. Looks like a 12' row and two ten foot rows in this pattern. Should be</p> <p><u>Specs:</u> able to thin off the 12 ' rows.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red 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 /2022</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
<b>29 61170029-Cut</b>	10.1	42110 - Planted Red Pine	Sawtimber Well	70	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to 120 ba. Pole potential. Focus on release of quality trees. Current ba 190.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> red pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>37 61170037-Cut</b>	13.4	42110 - Planted Red Pine	Poletimber Well	38	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Avg ba 198. Row width vary 10-12'. Thin in rows to reduce ba to 120. May not be able to get through all rows. Mark as possible. May  <u>Specs:</u> need to remove full row to work off but not many rows in strips.  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> red pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>41 61170041-NF</b>	9.9	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for  <u>Specs:</u> wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.  <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 /2022</p>										
<b>49 61170049-Cut</b>	22.6	42110 - Planted Red Pine	Poletimber Well	46	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Crown thin to bring basal area down to 120. Current ba 186 avg. Row widths seem to be 9-10'. Recommend leave 4 rows and take 1.  <u>Specs:</u> Thin inside rows as needed to reduce Basal Area to 120.  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> red pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u> Other Dept./Div. Processes  <u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>50</b>	<b>61170050-NF</b>	31.6	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
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Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>51</b>	<b>61170051-Cut</b>	18.1	42110 - Planted Red Pine	Poletimber Well	46	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Stand should be thinned to bring stocking down to 120 ba. Average 200 ba. Wide rows10-12' should allow thinning within rows. Some rows may be too tight. Rows are too wide to take out full rows. May need to do 1:3 or 1:4 row removal.

Next Step  
Treatments:

Acceptable red pine  
Regen:

Other Consider ORV Trail that transects stand while preparing sale.  
Comment:

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2022

<b>56</b>	<b>61170056-Cut</b>	25.0	42110 - Planted Red Pine	Sawtimber Well	46	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Pretty limby 4-5 stick trees. Avg ba 178. Should thin down to 120 ba. Take 1 row and leave 4. Thin inside rows as needed.

Next Step  
Treatments:

Acceptable red pine  
Regen:

Other Consider Motorcycle trail that transects stand when preparing treatment.  
Comment:

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2022

<b>66</b>	<b>61170066-Cut</b>	28.1	42110 - Planted Red Pine	Sawtimber Well	46	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Average ba 191. 4-5 stick trees. Good height growth. Still limby. Thin stand to reduce ba to 120. Should be able to thin in existing wide rows.

Next Step  
Treatments:

Acceptable red pine  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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>80 61170080-NF</b>	19.1	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	46	1-50	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.</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 /2022</p>										
<b>91 61170091-Cut</b>	15.3	4130 - Aspen	Poletimber Medium	49	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut stand to 2"dbh to regenerate. Retain some SCATTERED well formed maple/cherry/oak/pine as found. Potential for area retention in places with pockets of poles and saplings.</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/oak/maple/pine/birch/fir/cherry</p> <p><u>Other Comment:</u> Motorcycle trail in south edge of stand. Keep treatment boundary north of trail.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>96 61170094-12-New</b>	48.4	330 - Low-Density Trees	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all stems to 1" dbh and chip tops if possible to prep site for planting of red pine. Plant red pine after harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u> 9/2021. Review or oil and gas lease is still pending. Area of planted red pine in this treatment may need to be reduced. The harvest area can remain the same. Verify oil &amp; gas lease to ensure that they do not plan to expand operations where we plant red pine.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>94 61170094-Cut</b>	35.0	42110 - Planted Red Pine	Poletimber Well	46	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Reduce ba to 120. 169 avg ba. Getting some height. 4 -5 stick. Most rows 12' but some 8-10. Should be able to thin in rows. Still pretty limby. Some shorter areas. Stocking is variable</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u> Consider motorcycle trail through stand when preparing sale.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>96</b>	<b>61170096-NF</b>	54.3	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
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Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>97</b>	<b>61170097-Cut</b>	8.1	42120 - Planted Jack Pine	Poletimber Well	51	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut to 2" dbh and chip tops if possible to prep site for planting. No retention due to small size.

Specs:

Next Step SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant  
Treatments:

Acceptable planted red pine  
Regen:

Other Motorcycle trail in east part of stand. Consider during sale prep and discuss best management options with PRD. May not be desirable to retain jp along trail but there may be some other options.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>120</b>	<b>61170120-Cut</b>	34.1	4130 - Aspen	Poletimber Medium	48	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Cut to 2"dbh. Retain some well formed pine and hardwood as found.

Specs:

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

Acceptable Aspen, maple, oak ,pine  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>142</b>	<b>61170142-Cut</b>	11.1	4130 - Aspen	Poletimber Medium	49	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription retain some widely spaced well formed trees as found (pine/maple/cherry/oak)and cut remaining to 2"dbh to regenerate stand. Treat with stand 91 to SE.  
Specs:

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

Acceptable aspen/birch/maple/pine/fir/cherry  
Regen:

Other Consider trail along west edge of stand when preparing treatment. Possible retention area.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022





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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: 465.2

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 170

Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions							
		With Condition				4A	5C	1C	2F	2H	3J		
461	422	39		0	Aspen		39						
4	4	0		0	Bare/Sparsely Vegetated								
56	56	0		0	Herbaceous Openland								
30	30	0		0	Jack Pine								
192	192	0		0	Low-Density Trees								
18	0	0		18	Lowland Conifers								18
1	1	0		0	Lowland Shrub								
178	162	0		16	Northern Hardwood						4		12
42	42	0		0	Planted Mixed Pines								
790	641	83		66	Red Pine	10	72	66					
28	24	0		4	Upland Mixed Forest				4				
18	18	0		0	Upland Shrub								
67	67	0		0	Urban								
2	2	0		0	Water								
5	5	0		0	White Pine								
1,891	1,666	122		103	Total Forested Acres	10	112	66	4	4			30
	88%	6%		5%	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	4A: No Markets Available for these Forest Products	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021: Immature. One -2 stick trees.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 170

Year of Entry: 2023

3	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	4	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021: 1-3 stick trees. Avg ba 174. Hold until next entry.							
5	<b>Unavailable</b>	<b>2F: Too steep</b>	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021: Average ba 175. Very limby. 35-45% live crown ration. Let stand grow in. Thin next entry							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2020: 3-4 stick trees. 10' rows? Density is up but trees still have good crowns. Ba is variable but most areas @180. Would likely have to row thin as the rows look like 10' width and variable. It would be best to let trees put on more height and self prune at this time.							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 170

Year of Entry: 2023

8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021: 4 stick avg red pine. Avg BA 172. Stocking is variable. Most rows are wide enough to thin down. Still semi limby with decent crowns on most trees. Could thin or could let grow height and continue to prune.							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2021: This stand could be held ten years for age class distribution or could harvest. This stand is holding up better than some others in compartment. Younger clones mixed in would grow in and keep volume up in stand. QA is declining but BA looks alright. Cut part of stand last entry and part 2021. Keep this part for age class distribution.							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut part of stand last entry and part 2021. Keep this part for age class distribution.							
11	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> See locked comments							
12	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> See locked comments							
13	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> See locked 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.

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>1</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	18.0	75	Unspecified	N/A	Stand transitions from high to low ground. Steep slope. Stand is use heavily by deer in the winter. No access.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	25	Pole	8					
Balsam Fir	30	Pole	8	75				
Northern White Cedar	10	Pole	8					
Hemlock	25	Pole	8					

<b>2</b>	4110 - Sugar Maple Association	Sawtimber Well	19.3	91	51-80	N/A	2021: Little desirable regen noted. Some sm seedlings getting browsed heavily. Ironwood and bc under. 2011:High quality hardwood stand. Terrain is rolling and steep in areas.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log	11	91	Sugar Maple	Low	< 5 feet	Sapling
Red Maple	20	Log	12		Ironwood	Low	5 - 10 feet	Sapling
Basswood	5	Log	12		Black Cherry	Medium	5 - 10 feet	Sapling
Black Cherry	5	Log/Pole	11		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub

<b>3</b>	4319 - Mixed Upland Forest	Poletimber Well	9.3	75	81-110	N/A	2021: Series of deep ravines draining to wetland. Factor limit steep areas. Mixed WP diameters L/XL/P. 2011:mixed bag of species. Rolling terrain, steep in spots. Dune and swale like on the west end of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole	8	75	Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	25	Log/Pole/XLog	10		Jack Pine	Low	5 - 10 feet	Sapling
Jack Pine	25	Pole	8		Beech	Low	5 - 10 feet	Sapling
Black Cherry	10	Pole	8					
Ironwood	10	Pole	6					

<b>4</b>	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	No	well pad
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<b>5</b>	4319 - Mixed Upland Forest	Poletimber Poor	18.7	55	1-50	N/A	2021: Good regeneration under retained overstory. Thick jp saplings in places along with rm.bf,and some rp. . Consider changing to overstory next entry. Last harvest date unknown. Second age may need adjusted. 2011:JP was cut out of stand. Left all the maple, white pine and balsam. some JP, fir, and redmaple is regenerating. Stand has an old foundation in it.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole	8	55	Red Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	30	Pole	8		White Pine	Low	5 - 10 feet	Sapling
White Pine	15	Pole	9		Jack Pine	Medium	10 - 20 feet	Sapling
Jack Pine	5	Pole	8		Red Pine	Low	5 - 10 feet	Sapling
					Balsam Fir	Low	10 - 20 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
6	42110 - Planted Red Pine	Sawtimber Well	31.0	66	111-140	N/A	2021: Quality red pine. 6-7 stick. Pole potential. Stocking is fine. Avg ba 122. Some small mortality pockets. Armillaria? Understory beech advancing. 2011:6-7 stick RP, beech in the understory.																																														
<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>Log</td> <td>12</td> <td>66</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log	12	66	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Medium	5 - 10 feet	Sapling	Jack Pine	Low	5 - 10 feet	Sapling	Balsam Fir	Low	10 - 20 feet	Sapling	Black Cherry	Low	5 - 10 feet	Sapling	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub	Stand was thinned down to a BA of about 120-140 in the fall of 2014 (Straight Row Red 61-008-13-01). Harvesting went well and skid trails and roads were blocked off. Will have to keep an eye on hwd in the understory if RP is the MO.															
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Red Pine	100	Log	12	66																																																	
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Blackberry/Raspberry	Low	< 5 feet	Tall Shrub																																																		
7	320 - Upland Shrub	Nonstocked	3.2		Unspecified	No																																															
8	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.1	75	51-80	N/A	2021: Good quality sm. Maple seedlings getting browsed. 2011:some clones of aspen. Hwds are small in diameter, there are trees of good form in stand.																																														
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9	122 - Road/Parking Lot	Nonstocked	6.4		Unspecified	No	Highway																																														
10	42110 - Planted Red Pine	Poletimber Well	31.4	35	171-200	N/A	2021: Avg ba 197. 3 stick avg. Should thin in rows to bring ba down to 120. . 12' rows. Should be able to thin in rows. Some are more narrow but should be able to make it work. Piece on west side of highway is messy with jp mixed in and falling out. Areas of natural jp and cherry brush. May want to harvest and plant this with as much of stand 7 as possible. Could get close to ten acres. 2011: 1-2 stick RP, young R6. Sawtimber along 131 that was left from original stand.																																														
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11	42110 - Planted Red Pine	Poletimber Well	22.8	36	141-170	N/A	2021: Variable stocking 3-4 stick trees. Some gaps in rows. Still limby and with health crowns. Should let this grow in height and self prune. Average ba 147. Row width is generally 10-12' but variable. Hold till next entry. 2011: 2-3 stick RP. Wide Rows, young R6																																														
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12	42110 - Planted Red Pine	Sapling Medium	22.9	15	Immature	N/A	2021: Trees 10-15 foot. Variable heights. Section south of powerline has more variability in stocking and growth. Trees planted on Consumers Power property on north side of powerline. 2011: Trees about 2' tall																																														
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13	330 - Low-Density Trees	Nonstocked	4.4		Unspecified	No	2021: Low density maple/cherry. Pine mix seeding in.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
14	42110 - Planted Red Pine	Sawtimber Well	35.2	70	171-200	N/A	2021: 5-6 stick trees. Has been row thinned and lightly thinned within rows. 184 avg ba. Should reduce stocking to 120. Two die back pockets in western strip. Likely armillaria. 2011:Tall RP, Thinned in 07. Tops have room to grow for now.																																											
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15	330 - Low-Density Trees	Nonstocked	6.3		Unspecified	No	2021: Scattered BC/WP/RM																																											
16	42140 - Planted Mixed Pine	Sapling Well	36.7	26	Immature	N/A	2021: Densely stocked with planted red pine and natural jp. Pockets of rm saplings. Some low stocked unplanted areas in east strips. 2011:Planted RP with some JP volunteers.																																											
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17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	30.3	70	51-80	N/A	2021: Low quality hardwoods with ironwood growing through. Some aspen in south part of stand. Some blowdown. Let stand put on volume. Consider harvesting in future and planting pine. Seems to have little potential for value or for attaining desirable regeneration. 2011:Stand recently thinned.																																											
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18	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No	2021: Low density maple,cherry.																																											
19	310 - Herbaceous Openland	Nonstocked	1.6		Unspecified	No	2021: Old well pad																																											
20	42110 - Planted Red Pine	Poletimber Well	13.3	37	171-200	N/A	2021: Avg Ba 178. 3 stick average. Could mark in rows to bring ba down to 120. Looks like a 12' row and two ten foot rows in this pattern. Should be able to thin off the 12 ' rows. 2011: 1-2 stick RP. Wide Rows.																																											
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22	330 - Low-Density Trees	Nonstocked	6.5		Unspecified	No	2021: Low density maple/cherry.																																											
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24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.8	77	51-80	N/A	2021: Small hardwood patch along highway. Low quality maple stand from stump sprouts. Some planted red pine.																																																															
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26	330 - Low-Density Trees	Nonstocked	2.1		Unspecified	No	2021: Low density trees. Some Scotch Pine seeding in.																																																															
27	4112 - Maple, Beech, Cherry Association	Poletimber Medium	14.7	66	1-50	N/A	2021: little desirable regeneration after 2013 harvest. Patches of pole/sapling maple with low density log trees in most of stand. Let stand develop. 2011: failed part of the adjacent plantation. Scattered RP throughout.																																																															
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28	42110 - Planted Red Pine	Sawtimber Well	17.2	50	111-140	N/A	2021: Messy quasi pine plantation. Stocking good after 2013 thin but pine stocking is variable through stand. Some areas with more wp and hardwoods mixed in. Some maple saplings on edged but generally not forming any desirable understory. Maple seedlings are getting browsed. Let stand grow in. 2011: Row width are wide 10-12'. RP is 4-5 stick. JP is along the edges of stand. Stocking is variable in areas.																																																															
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29	42110 - Planted Red Pine	Sawtimber Well	10.1	70	171-200	N/A	2021: Average ba 190. Stand could be thinned to grow for poles of could harvest and re-plant. Has been thinned twice. 2011:Nice tall RP, recently thinned. Trees have some room to grow.																																																															
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30	42140 - Planted Mixed Pine	Sapling Well	5.8	26	Immature	N/A	2021: Red pine and jp growing together. RP keeping up. JP has good form. Let stand develop.																																																															
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31	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	73.5	15	Immature	N/A	2021: red pine planted around residual cherry ,maple, and aspen clones. Mix of logs and poles. Pine is variable in height but generally 10-15'. Good growth on most pine. 2011: trees ~2' tall. Scattered maple and cherry pole and sawtimber.																																																						
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32	42110 - Planted Red Pine	Sawtimber Well	32.6	46	111-140	N/A	2021: Avg ba 133. Most trees have room to grow. Shorter on east side. Let stand grow in. Some maple understory. 2011:RP is about 4 sticks tall. The only plantation in the area with some height?																																																						
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33	4130 - Aspen	Sapling Well	1.7	9	Immature	N/A	2021: Decent regeneration. Some retention- maple logs/poles.																																																						
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34	4130 - Aspen	Poletimber Medium	0.9	47	51-80	N/A	2021: Low stocked/quality aspen and wp with new age forming under. Let stand develop.																																																						
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35	42110 - Planted Red Pine	Poletimber Well	44.7	26	141-170	N/A	2021: Very limby. 50% live crown ratio. 1-3 sticks. 163 avg ba. Stand could be row thinned or left to grow in until next entry. 2011:Rows are tight ~6'. RP is about 15' tall																																																						
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36	320 - Upland Shrub	Nonstocked	1.2		Unspecified	No																																																							
37	42110 - Planted Red Pine	Poletimber Well	13.4	38	171-200	N/A	2021: 2-3 sticks Avg 3. Avg ba 198. Row width vary 10-12'. Consider thinning in rows to reduce ba to 120? If rows are to thin to work with let stand grow more height. 2011: 1-2 stick RP																																																						
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38	4112 - Maple, Beech, Cherry Association	Poletimber Medium	7.4	67	51-80	N/A	2021: Low quality Hardwoods. Mixed sizes and stocking. Some pockets of maple saplings. 2013:Medium to poor quality hardwoods.																																								
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39	4130 - Aspen	Poletimber Medium	4.4	47	1-50	N/A	2021: Pocket of Low density/quality QA and BC with rm/wp/rp/wp saps under. Aspen is declining but not enough volume to concern with. Let aspen fall out and new stand should grow through from below.																																								
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40	42120 - Planted Jack Pine	Poletimber Well	3.8	26	51-80	N/A	2021: JP planted through residual cherry and maple. 1-2 stick. 2011: JP about 15' tall Some oak may have been planted with jp?																																								
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41	330 - Low-Density Trees	Nonstocked	9.9		Unspecified	No																																									
42	42110 - Planted Red Pine	Poletimber Well	28.0	26	141-170	N/A	2021: very limby 1-2 stick. Seems short compared to other stands this age. Tight spacing 6X8. Let stand develop. Should be thinned next entry. 2011:RP 10-15' tall.																																								
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43	4130 - Aspen	Sapling Well	8.7	9	Immature	N/A	2021: Good regen in areas. Patchy. 2011: nice looking popple.																																								
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44	4112 - Maple, Beech, Cherry Association	Poletimber Medium	4.6	78	51-80	N/A	2021: Low quality maple. Heavy ironwood in understory. 2017:medium to poor quality. Stand was lightly thinned in 2015 (Trackside Mix 61-007-13-01).																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>45</b>	4130 - Aspen	Sapling Well	1.7	16	Immature	N/A	2021: Good growth and stocking in most areas. Some gaps. 2011: Regen coming along well 10-15' in spots. Some area aren't as dense.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		43	Sapling	2	16		
Bigtooth Aspen		50	Sapling	1	16		
Black Cherry		5	Sapling	2			
Red Maple		2	Sapling	2			
<b>46</b>	4130 - Aspen	Sapling Medium	7.4	9	Immature	N/A	2021: Patchy regen. Good in areas. 2011: poor to medium quality wood.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		20	Sapling	1	9		
Quaking Aspen		70	Sapling	1	9		
Black Cherry		10	Sapling	1			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
White Pine		Low	< 5 feet	Seeding			
<b>47</b>	4130 - Aspen	Sapling Well	9.4	9	Immature	N/A	2021: Decent regen in most areas. 2011: Some nice clones of bigtooth. Timber become less impressive to the south.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Sugar Maple		5	Pole	8			
Red Maple		25	Sapling	2	9		
Bigtooth Aspen		60	Sapling	2	9		
Black Cherry		10	Sapling	2	9		
<b>48</b>	42110 - Planted Red Pine	Sapling Well	10.2	14	171-200	N/A	2021: Rp 10-20 ' height. Good growth. Scattered hardwoods and mature jp patches mixed in stand. 2011: regen ~3' tall
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		95	Sapling	3	14		
Black Cherry		5	Sapling	2			
<b>49</b>	42110 - Planted Red Pine	Poletimber Well	22.6	46	171-200	N/A	2021: 187 avg ba. Recommend thinning stand. Should be able to thin through most existing rows. Bring ba down to 120. A few hardwood scattered in stand. 2011: Wide rows ~12', good diameter grow heights are mostly 3 stick with and occasional 4 stick.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		100	Pole	8	46		
<b>50</b>	330 - Low-Density Trees	Nonstocked	31.6		Unspecified	No	2020: Filling in with aspen, wp, jp, rp, scotts pine. May need to move to forested stand next entry.
<b>51</b>	42110 - Planted Red Pine	Poletimber Well	18.1	46	171-200	N/A	2021: Stand should be thinned to bring stocking down to 120 ba. Average 200 ba. Wide rows 10-12' should allow thinning within rows. Some rows may be too tight. Rows are too wide to take out full rows. 2011: 3-4 stick RP. Row widths are wide 10-12'
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		100	Pole	8	46		
<b>52</b>	4130 - Aspen	Sapling Well	1.3	7	Immature	N/A	2021: Decent aspen regeneration in this small clone. Some mature aspen left from harvest. Stand was final harvested in the winter of 2014 (Trackside Mix 61-007-13-01).
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		100	Sapling	1	7		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Ironwood		Low	5 - 10 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
53	4112 - Maple, Beech, Cherry Association	Poletimber Medium	8.8	70	51-80	N/A	2021: Low quality 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>
Sugar Maple		40	Pole	8		Ironwood	Medium	5 - 10 feet	Sapling
Red Maple		55	Pole	8	70	Black Cherry	Low	10 - 20 feet	Sapling
Ironwood		5	Sapling	4		Beech	Low	5 - 10 feet	Sapling
54	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	5.7	85	51-80	N/A	2021: Lower quality maple. Little desirable regeneration noted. Stand was lightly thinned in winter of 2017 (Trackside Mix 61-007-13-01).		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		35	Log/Pole	11	85	Ironwood	Medium	< 5 feet	Sapling
Red Maple		65	Log/Pole	11	85	Red Maple	Low	5 - 10 feet	Sapling
55	42200 - Natural White Pine	Poletimber Well	4.6	67	81-110	N/A	2021: Mixed wp sizes. Natural looking wp mixed with maple, cherry, aspen. Could thin if nearby.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		10	Log	10		White Pine	Medium	10 - 20 feet	Sapling
White Pine		75	Pole/Log	8	67				
Black Cherry		10	Log/Pole	10					
Red Maple		5	Log/Pole	10					
56	42110 - Planted Red Pine	Sawtimber Well	25.0	46	171-200	N/A	2021: Pretty limby 4-5 stick trees. Avg ba 178. Should thin down to 120 ba. May be able to mark in existing rows. If not remove every fourth row and thin within rows as needed. 3 stick RP, wide row ~12' wide.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		100	Log/Pole	10	46				
57	4112 - Maple, Beech, Cherry Association	Poletimber Medium	1.9	74	51-80	N/A	2021: Stand was marked but not harvested. Low quality red maple from sprouts. Not enough value to complete treatment. 2015: Stand was lightly thinned in 2014 (Trackside Mix 61-007-13-01).		
<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		80	Log/Pole	10	74	White Pine	Low	5 - 10 feet	Sapling
Black Cherry		20	Log/Pole	10					
58	4110 - Sugar Maple Association	Sawtimber Well	4.1	65	81-110	N/A	2021: Small stand of lower quality sugar maple. Variable stocking. Let stand grow in and harvest when it gains volume. May want to dispose of this property as it is landlocked and small area.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		5	Log/Pole	10	65	Red Maple	Low	5 - 10 feet	Sapling
Sugar Maple		80	Log/Pole	10	65	Ironwood	Medium	5 - 10 feet	Sapling
Black Cherry		5	Log/Pole	10		Beech	Low	5 - 10 feet	Sapling
Beech		5	Log	13					
Ironwood		5	Pole	5					
59	4130 - Aspen	Sapling Medium	19.8	9	Immature	N/A	2021: Patchy aspen regen with bc and maple. Cherry and maple logs and pole retained from last harvest. 2013: Poor quality aspen with a few nice clones. Some of the timber is starting to deteriorate.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Black Cherry		10	Sapling	1	9				
Red Maple		15	Sapling	1	9				
Quaking Aspen		75	Sapling	1	9				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
60	42110 - Planted Red Pine	Poletimber Well	43.6	26	171-200	N/A	2021: Average ba 175. Very limby. 35-45% live crown ration. Let stand grow in. Thin next entry 2011: red pine about 15' tall.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		100	Pole	6	26				
61	4112 - Maple, Beech, Cherry Association	Poletimber Poor	1.6	47	1-50	N/A	Low density/quality hardwood with under filling in.		
<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		70	Pole	8	47	White Pine	Low	< 5 feet	Sapling
Quaking Aspen		20	Pole/Sapling	6		Red Pine	Low	5 - 10 feet	Sapling
Red Maple		10	Pole	8		Black Cherry	Low	5 - 10 feet	Sapling
						Red Maple	Low	5 - 10 feet	Sapling
62	42110 - Planted Red Pine	Poletimber Well	16.9	26	171-200	N/A	2021: 1-3 stick trees. Avg ba 174. Could row thin or hold till next entry. A small amount of jp in sw corner. 2011:regen 10-15' tall.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		100	Pole	6	26				
63	42110 - Planted Red Pine	Poletimber Well	16.9	27	111-140	N/A	2021: 132 avg ba. 1-2 sticks limby. Good height growth last ten years. Let stand develop. 2011:RP is about 10-15' tall.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		100	Pole	6	27				
64	42220 - Natural Jack Pine	Poletimber Poor	4.6	48	81-110	N/A	2021: Patchy natural jack pine. Jack pine declining in stand. Some blowdown. Should be harvested and re-started or planted when possible.		
<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>
Jack Pine		90	Pole/Log	9	48	Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry		10	Pole/Log	8		Red Maple	Low	5 - 10 feet	Sapling
66	42110 - Planted Red Pine	Sawtimber Well	28.1	46	171-200	N/A	2021: Average ba 191. 4-5 stick trees. Good height growth. Still limby. Thin stand to reduce ba to 120. Should be able to thin in existing wide rows. 2011: 3 stick RP, wide rows.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		100	Log/Pole	10	46				
67	320 - Upland Shrub	Nonstocked	3.5		Unspecified	No			
68	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	4.3	24	51-80	N/A	2021: Aspen clone in NW corner with rm/wp under. Most of stand is pole sized jp. 2011: JP 10-15' tall.		
<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>
Jack Pine		80	Pole	6	24	White Pine	Low	5 - 10 feet	Sapling
Black Cherry		15	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
Quaking Aspen		5	Pole/Log	9		Black Cherry	Low	5 - 10 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
69	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.2	67	51-80	N/A	2020: Low quality maple. Added small area east of road to this stand from imagery. This part not included in last thin.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		80	Pole	8	67	Ironwood	
Black Cherry		15	Pole	9		White Pine	
Sugar Maple		5	Log	13		Quaking Aspen	
						Red Maple	
70	4130 - Aspen	Sapling Well	34.1	16	Immature	N/A	2021: Good growth and stocking in most areas. Some gaps. 2011: Regen coming along well 10-15' in spots. Some area aren't as dense.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		43	Sapling	2	16		
Bigtooth Aspen		50	Sapling	1	16		
Black Cherry		5	Sapling	2			
Red Maple		2	Sapling	2			
71	42110 - Planted Red Pine	Poletimber Well	22.5	47	111-140	N/A	2021: Average ba 141. let stand grow in and look at thin next entry. 2011:3 stick RP. Rows are wide 12' or so. Fire burned 6 acres of the stand on 4/15/11.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		100	Pole	8	47		
72	42110 - Planted Red Pine	Sapling Medium	9.9	19	Immature	N/A	2021: 20'+ height. Good growth. Stocking is variable. 2011: regen 6-8' tall. Stocking isn't very uniform.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		85	Sapling/Pole	4	19		
Black Cherry		13	Pole/Sapling	5			
Jack Pine		2	Pole/Sapling	5	19		
73	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	9.9	64	81-110	N/A	2021; Mixed stocking and diameters. Low quality. Some rm sapling in gaps. Not worth thinning. Some oak may have been underplanted .
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		58	Log/Pole	10	64	Red Maple	
Black Cherry		40	Pole	8		Hemlock	
Ironwood		2	Pole	6		Ironwood	
						White Pine	
						Hawthorn (spp.)	
						Red Oak	
74	122 - Road/Parking Lot	Nonstocked	5.3		Unspecified	No	
75	500 - Water	Nonstocked	0.7		Unspecified	No	2021: small pond
76	330 - Low-Density Trees	Nonstocked	4.1		Unspecified	No	Low density quaking aspen cherry, red maple.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
77	4130 - Aspen	Poletimber Medium	14.2	40	1-50	N/A	2021: Mixed stocking lower quality qa/bc. Mix of poles and saplings. Saplings look more vigorous than poles. Not much merchantable volume at this time. Let stand grow in. May be self sustaining low density stand.																												
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78	330 - Low-Density Trees	Nonstocked	4.1		Unspecified	No	2021: Mix of open area and patches of quaking aspen saplings/ poles. Scattered aspen/bc/rm poles. Converting to forested stand.																												
79	42110 - Planted Red Pine	Sapling Medium	14.2	8	Immature	N/A	2021: Pine 3-4' tall. Good growth and survival. 2019:- Stand was involved with a wildfire on 4/15/2011. FTP C62-835. - Stand planted in 2014. 1 year regen survey in 2015 shows 592 TPA. TMS recommends a replant. - Stand replanted in 2017. - This stand has been updated from a field evaluation for a project on free to grow red pine. - Regen survey in 2018 shows 800 TPA and 81% FTG.																												
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80	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	19.1	46	1-50	N/A	2020: Called low density cherry and aspen poles as overstory. Filling in with aspen,rm,bc saplings. . . 2011:Upland brush stand. Quite a bit of pole sized cherry present																												
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81	330 - Low-Density Trees	Nonstocked	2.6		Unspecified	No	2021: Low density trees.																												
82	4130 - Aspen	Poletimber Medium	3.2	50	51-80	N/A	2021: small aspen clones. Various sized l/p/s. Could cut to regenerate if nearby.																												
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83	4130 - Aspen	Sapling Medium	2.9	6	Immature	N/A	2021: Moderate regen stocking. A few rp seedlings. 2016:Stand was cut in 2014 'Lunch at Leetsville' 61-030-13-01.																												
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84	4130 - Aspen	Sapling Medium	10.6	16	Immature	N/A	2021: Good growth. Patchy in north and south ends. 2011: regen is pretty even, seems to be more variable at the north end of the stand.																												
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85	42110 - Planted Red Pine	Poletimber Medium	17.5	27	81-110	N/A	2021: 1 stick limby short pine. Variable stocking from the start at planting. Let stand grow in. 2011:Rolling terrain. planted same time as the RP to the east just not doing as well. Stocking is variable.																																													
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86	310 - Herbaceous Openland	Nonstocked	3.6		Unspecified	No	2020: Old well pad.																																													
87	4130 - Aspen	Sapling Medium	12.0	6	Immature	N/A	2021: Patchy regeneration. Thick in areas but low stocked areas as well. 2016: Stand was clear-cut in 2014 'Lunch at Leetsville' 61-030-13-01. Left some white pine and oak.																																													
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88	122 - Road/Parking Lot	Nonstocked	3.3		Unspecified	No	Road edge																																													
89	4130 - Aspen	Sapling Poor	2.6	16	Immature	N/A	2021. Moved stand to forested type. QA/RM/BC sapling with small poles.																																													
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90	330 - Low-Density Trees	Nonstocked	11.0		Unspecified	No	Areas along roadway and private land																																													
91	4130 - Aspen	Poletimber Medium	43.3	49	51-80	N/A	2021: This stand could be held ten years for age class distribution or could harvest. This stand is holding up better than some others in compartment. Younger clones mixed in would grow in and keep volume up in stand. QA is declining but BA looks alright. Stand 136 was created out of this stand in last entry. Stand 142 was part of this stand before the harvest split it. 2011:Rolling terrain, quaking aspen it starting to deteriorate, bigtooth is real healthy.																																													
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92	4130 - Aspen	Sapling Medium	3.2	6	Immature	N/A	2021: Light regen stocking. 2016: Stand was clearcut in 2014 'Lunch at Leetsville' 61-030-13-01. Left a few brush pile for habitat.																																													
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94	42110 - Planted Red Pine	Poletimber Well	46.4	46	141-170	N/A	2021: Recommend thin. . Reduce ba to 120. 169 avg ba. Getting some height. 4 -5 stick. Most rows 12' but some 8-10. Should be able to thin in rows. Still pretty limby. Some shorter areas. Stocking is variable 2011: 3 Stick RP, wide row ~12'. Good diameters but still real limby on the bottom stick or two.																																									
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95	42110 - Planted Red Pine	Sawtimber Well	31.4	46	141-170	N/A	2021: 154 avg ba. Limby trees. 12" rows. Variable stocking and diameters. Short stubby trees. Consider cutting and re-planting. Doesn't look like it will ever be very good. 2011: Wide row spacing, timber is short. some hardwoods and aspen mixed in.																																									
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96	330 - Low-Density Trees	Nonstocked	69.5		Unspecified	No	2021: Low density trees. Aspen/bc/rm/wp. Sprawling low stocked area. Consider getting part harvested and prepped to plant pine. The section in the north may be possible.																																									
97	42120 - Planted Jack Pine	Poletimber Well	8.1	51	111-140	N/A	2021: Some mortality and blowdown. Harvest stand and plant red pine. Jack pine will have to be left to sprout after harvest and then sprayed with herbicide before planting. 2011:Decent JP 4-5 stick.																																									
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98	42110 - Planted Red Pine	Poletimber Well	38.0	27	141-170	N/A	2021: Good growth 1-2 stick trees. 40% crown. Limby . Avg Ba 144. Let stand grow in.2011:Nice plantation RP ~ 15' tall.																																									
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99	310 - Herbaceous Openland	Nonstocked	2.4		Unspecified	No	2021: old Well pad																																									
100	4130 - Aspen	Poletimber Medium	10.4	46	51-80	N/A	2021: Mix of aspen sm. logs/poles/sapling. Good bit of maple saplings 10-20' mixed with aspen saplings. A little mature sm/ro in stand. Could attempt to harvest merchantable aspen and protect understory. May be better to just let the older aspen fall out and let younger age of maple and aspen grow through. Not a lot of volume in mature aspen but likely enough to be commercial. 2013:Decent quality wood.																																									
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101	330 - Low-Density Trees	Nonstocked	1.9		Unspecified	No																																										
102	310 - Herbaceous Openland	Nonstocked	2.5		Unspecified		well pad																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
103	4130 - Aspen	Poletimber Medium	12.4	46	51-80	N/A	2021: Could cut to regenerate. Pockets of rm saplings. 2011:Poor quality quaking aspen.																																										
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104	330 - Low-Density Trees	Nonstocked	5.3		Unspecified	No	2021: Low density cherry/maple/aspen.																																										
105	310 - Herbaceous Openland	Nonstocked	1.0	0	Unspecified	No																																											
107	330 - Low-Density Trees	Nonstocked	6.3		Unspecified	No	2021: low density cherry, aspen, pine																																										
108	330 - Low-Density Trees	Nonstocked	1.5		Unspecified	No																																											
109	4130 - Aspen	Poletimber Medium	34.3	46	81-110	N/A	2021: Stocking and diameters are variable. QA is declining. Some Big tooth mixed in that looks healthier. Could be harvested if necessary but may want to hold for age class diversity. This stand could hold better than others in compartment due to higher amount of rm/bc/bigtooth aspen. Different ages of bigtooth aspen.																																										
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110	123 - Other High Intensity Urban	Nonstocked	42.2		Unspecified		Oil and gas production site																																										
111	310 - Herbaceous Openland	Nonstocked	36.8		Unspecified	No																																											
112	4130 - Aspen	Poletimber Medium	24.1	46	51-80	N/A	2020: This stand looks similar to stand 100 to west. Mixed ages of aspen-logs/poles/saplings. Considerable red maple and aspen saplings in areas. The older aspen is declining but may not be worth cutting and damaging understory that is growing in. Stand will likely grow into decent maple/aspen mix if left. Maybe able to harvest merchantable aspen and get the same result.																																										
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113	330 - Low-Density Trees	Nonstocked	3.2		Unspecified	No	2021: Low density aspen/bc/rm																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
114	622 - Lowland Shrub	Nonstocked	0.9		Unspecified	No	
115	4130 - Aspen	Sapling Well	29.7	6	Immature	N/A	2021: Good regen in most areas. Some low stocked sections. 2014: Stand was clear cut in 2014 'Lunch at Leetsville'. 61-030-13-01. Left scattered white pine, oak and sugar maple.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Quaking Aspen	70	Sapling	1	6	
		Bigtooth Aspen	20	Sapling	1		
		Black Cherry	5	Sapling	1		
		Red Maple	5	Sapling	1		
116	4130 - Aspen	Sapling Medium	37.1	6	Immature	N/A	2021: Patchy regeneration. Good in places. 2014: Stand was cut in 2014 'Topnotch Popple' 61-032-13-01. Left some scattered white pine oak.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Quaking Aspen	80	Sapling	1	6	
		Black Cherry	5	Sapling	1		
		Bigtooth Aspen	10	Sapling	1		
		Red Maple	5	Sapling	1		
117	4130 - Aspen	Poletimber Medium	4.4	46	51-80	N/A	2021: Declining low quality QA. Bigtooth looks better but could go. Consider harvesting to regenerate. Pockets of rm saplings under.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Quaking Aspen	85	Pole	7	46	
		Bigtooth Aspen	5	Log/Pole	10		
		Black Cherry	10	Log/Pole	11		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Red Maple	Medium	5 - 10 feet	Sapling		
		Quaking Aspen	Low	5 - 10 feet	Sapling		
118	42110 - Planted Red Pine	Poletimber Well	5.2	47	171-200	N/A	2020: 3-4 stick trees. 10' rows? Density is up but trees still have good crowns. Ba is variable but most areas @180. Would likely have to row thin as the rows look like 10' width and variable. It would be best to let trees put on more height and self prune at this time. 2013: 3 stick RP. widely spaced rows.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Pine	95	Pole/Log	9	47	
		Black Cherry	5	Pole/Log	9		
120	4130 - Aspen	Poletimber Medium	16.5	48	51-80	N/A	2021: Mixed diameters and stocking. QA is declining. Consider harvesting to regenerate stand.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Quaking Aspen	70	Pole	8	48	
		Black Cherry	24	Log/Pole	10		
		White Pine	2	Log	12		
		Red Pine	1	Log	12		
		Red Maple	3	Log/Pole	10		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Red Maple	Low	5 - 10 feet	Sapling		
		Black Cherry	Medium	5 - 10 feet	Sapling		
		White Pine	Low	5 - 10 feet	Sapling		
		Quaking Aspen	Low	5 - 10 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>122</b>	4130 - Aspen	Poletimber Medium	9.9	46	1-50	N/A	2021: Stocking is variable but generally low. Mix of log/pole/saps. Older aspen is declining. Stand could be harvested to regenerate or left for diversity.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		83	Pole	8	46	Red Maple		
White Pine		10	Pole	8		Quaking Aspen		
Black Cherry		5	Pole	8		White Pine		
Red Maple		2	Log/Pole	11		Density		
						Avg. Height		
						Size		
<b>123</b>	320 - Upland Shrub	Nonstocked	10.2		Unspecified	No	2021: Pockets of cherry/aspen/rm poles and saps. Stand is filling in. May soon be low stocked forested stand. SE corner could be harvested if st 125 is harvested.	
<b>124</b>	4130 - Aspen	Sapling Medium	26.7	6	Immature	N/A	2021: Stand was harvested 2014. 61-032-13. Left some scattered white pine and oak. Patchy regen after harvest. Thick in areas but some areas low stocked.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		55	Sapling	1	6	White Pine		
Black Cherry		10	Sapling	1	6	Density		
Bigtooth Aspen		30	Sapling	1	6	Avg. Height		
Red Maple		5	Sapling	1		Size		
<b>125</b>	4130 - Aspen	Poletimber Medium	7.2	46	51-80	N/A	2021: Stand could be harvested to meet age distribution goals. Some areas heavier to saplings and small poles. Stocking is variable. May be able to merge with 120 or 122 or both. Would likely regenerate patchy and lower stocked. South part of stand is heavier to saplings.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		92	Pole	8	46	Quaking Aspen		
White Pine		3	Log/Pole	11		Black Cherry		
Black Cherry		5	Pole	8		White Pine		
						Density		
						Avg. Height		
						Size		
<b>126</b>	330 - Low-Density Trees	Nonstocked	1.8		Unspecified	No		
<b>127</b>	42110 - Planted Red Pine	Sawtimber Well	6.7	46	171-200	N/A	2021: 4 stick avg red pine. Avg BA 172. Stocking is variable. Most rows are wide enough to thin down. Still semi limby with decent crowns on most trees. Could thin or could let grow height and continue to prune. 2011:3 stick red pine, short, fat limby wood.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Pine		95	Log/Pole	10	46	Red Maple		
Quaking Aspen		3	Pole	8		Density		
Black Cherry		2	Pole	8		Avg. Height		
						Size		
<b>128</b>	4130 - Aspen	Poletimber Medium	2.5	46	1-50	N/A	2021: Small patch of low density QA,WP. Keep for diversity/budding cover.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		90	Pole	8	46	Quaking Aspen		
White Pine		10	Log	14		White Pine		
						Black Cherry		
						Density		
						Avg. Height		
						Size		
<b>130</b>	122 - Road/Parking Lot	Nonstocked	2.9		Unspecified	No		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
131	122 - Road/Parking Lot	Nonstocked	4.0	0	Unspecified	No	Road and powerline ROW																																					
132	4130 - Aspen	Sapling Well	19.8	6	Immature	N/A	2021: Good regen in most areas. 2016: Stand was clearcut in 2014 'Lunch at Leetsville' 61-030-13-01. Left scattered white pine, oak, and sugar maple. Also left brush piles for rabbitat. 2011:Rolling terrain, quaking aspen it starting to deteriorate, bigtooth is real healthy.																																					
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133	4130 - Aspen	Poletimber Medium	2.0	49	81-110	N/A	2021: Small patch of mature aspen left when south part of stand was harvested. Could be harvested or left for retention/budding cover.																																					
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134	4110 - Sugar Maple Association	Poletimber Poor	20.0	46	1-50	N/A	2021: Low quality hardwoods filling low stocked area. 2011: Upland brush stand. Quite a bit of pole sized cherry present																																					
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135	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	39.8	15	Immature	N/A	2021: Red pine planted through existing hardwoods, Split this planted part out from surrounding stands. Good growth on red pine. 2011:Upland brush stand. Quite a bit of pole sized cherry present with widely spaced 5yr old red pine underneath.																																					
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137	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Medium	8.9	26	51-80	N/A	2021: Jp stripped in around residual bc and rm. 2011: Upland brush stand. Quite a bit of pole sized cherry																																					
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138	330 - Low-Density Trees	Nonstocked	10.0	0	Unspecified	No	Low density cherry aspen maple pine																																															
139	330 - Low-Density Trees	Nonstocked	1.2	0	Unspecified	4211 - Planted Red Pine	2021. Looks like old well pad that had some red pine planted when surrounding area was planted. Low density trees. 2011: trees ~2' tall. Scattered maple and cherry pole and sawtimber.																																															
140	500 - Water	Nonstocked	0.9		Unspecified	No	Small wet depression																																															
141	790 - Other Bare/Sparsely Vegetated	Nonstocked	4.3	0	Unspecified	No	2021 Gasline/road																																															
142	4130 - Aspen	Poletimber Medium	22.2	49	51-80	N/A	2021: Stand was partially cut last entry. Stands 132 and 136 were created out of this and stand 91 was part of the original stand. This stand could be held ten years for age class distribution or could harvest. This stand is holding up better than some others in compartment but may not last long. Area with younger clones near stands 99/96. could be retention area. . QA is declining but BA looks alright. Stand 136 was created out of this stand in last entry. Stand 142 was part of this stand before the harvest split it. 2011:Rolling terrain, quaking aspen it starting to deteriorate, bigtooth is real healthy.																																															
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143	122 - Road/Parking Lot	Nonstocked	1.0	0	Unspecified	No	2021 Gasline/road																																															
144	4112 - Maple, Beech, Cherry Association	Poletimber Poor	8.1	50	1-50	N/A	2020: New stand created. Was jack pine planted on perimeter of stand 28. All jp harvested at last treatment in 2013. Remote call.																																															
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145	330 - Low-Density Trees	Nonstocked	1.4	0	Unspecified	No																																																
146	4110 - Sugar Maple Association	Sawtimber Well	9.8	91	111-140	N/A	2021: New stand created from area left out of last treatment. Riparian zone along creek drain. 2011: High quality hardwood stand. Terrain is rolling and steep in areas. Stand was thinned in 2016 'Billy goat hardwoods'. Sale was accessed from the east through private property. The central part of the stand was left out of the sale area to buffer the creek. Portions of the stand had heavy windthrow from a storm on 8/2/2015. This timber was salvaged as a part of the sale and left some areas with lower BA.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
148	330 - Low-Density Trees	Nonstocked	2.2	0	Unspecified	413 - Aspen	2021: Good growth and stocking in most areas. Some gaps. 2011: Regen coming along well 10-15' in spots. Some area aren't as dense.
150	330 - Low-Density Trees	Nonstocked	1.3	0	Unspecified	No	2021: red pine planted around residual cherry ,maple, and aspen clones. Mix of logs and poles. Pine is variable in height but generally 10-15'. Good growth on most pine. 2011: trees ~2' tall. Scattered maple and cherry pole and sawtimber.
190	4130 - Aspen	Sapling Medium	1.6	15	Immature	N/A	2021: New stand created. Pocket of low quality QA/BC/RM saplings. Estimated age 15.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Sapling	3	15
Black Cherry	15	Sapling	3	
Red Maple	15	Sapling	3	