



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61173

Entry Year 2024

Acreage: 1,504

County Kalkaska

Management Area: Boardman Plains

**Stand Examiner:** Thomas Peterson III

### Legal Description:

T28N, R6W, Sections 18 and 19. T28N, R7W, Sections 13, 14, and 24.

### Identified Planning Goals:

This compartment is dominated by Northern Hardwoods with a lesser component of aspen and red pine. The Northern Hardwoods are being managed with selective harvests promoting sawlog quality and allowing for regeneration in the canopy gaps. The compartment also encompasses the headwaters of the Rapid River, Rainbow Lake and Peters Lake. Applying appropriate buffers and applying Best Management practices around the lakes and river will keep their natural communities intact.

### Soil and topography:

The uplands are dominated by Kalkaska sands. Some of the higher quality hardwood sites are on Southwell and Croswell sands tend to have well stocked bigtooth aspen above them. Land is generally flat with some moderate bluffs around the lakes and the Rapid River.

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

The compartment is near other state forest land mixed in with quite a bit of private ownership. The private lands are concentrated around the lakes, in the center of the compartment, many of which are seasonal residents. Oil and gas development is present in the area but land use is predominately recreation and forestry related.

### Unique Natural Features:

The head waters of the Rapid River run through the north west portion of the compartment. There are a chain of lakes, Rainbow, Peters and Davis Lake that are in the south eastern end of the compartment. There has been a loon, osprey and eagle see in the area. There are eagles, loons and osprey adjacent to the compartment.

### Archeological, Historical, and Cultural Features:

None Listed at This Time

### Special Management Designations or Considerations:

None Listed at This Time

### Watershed and Fisheries Considerations:

2011 Comments from Fish Division - This compartment contains portions of the Rapid River, Rainbow Lake, Peter's Lake, and Davis Lake. It is also in close proximity to Croy Lake, and the small streams that connect this chain of lakes. The Rapid River and its tributaries are all designated trout streams. This river is of high quality, its trout populations are supported by natural reproduction, and it is not stocked. To keep this river in good condition it is critical that the appropriate BMP's are followed and buffers along the Rapid River are strictly adhered to. Restricting cutting to areas outside of the appropriate buffers will help to maintain the temperatures and habitat needed to maintain the health of the Rapids River and its trout populations.

### Wildlife Habitat Considerations:

Much of this compartment is underlain by excessively drained sandy outwash plains. Current dominant cover types include aspen, pine plantations, and hardwood stands. These outwash plains show a history of wildfires and in the past a variety of forest types and age classes were found. This area should continue to be managed to perpetuate a variety of forest types and successional stages related to a fire prone community. Aspen should be managed to provide a variety of age classes. Retention of mast/bud producing trees/shrubs, creation of downed logs during harvest operations, leaving tops un-chipped, and protection of fruiting shrubs are excellent ways to increase wildlife use of regenerating aspen. Regenerating deciduous stands support many wildlife species, including snowshoe hare, ruffed grouse, deer, woodcock, chestnut-sided warblers, and tiger salamanders. Wildlife opening maintenance has been prescribed for several stands. Deer, turkey, badgers, hog-nosed snakes, are blue birds some of the many species that will benefit from these openings.

Along the southeastern edges of this compartment are several stands of northern hardwoods supported by well drained

sandy loam deposited by an ice contact ridge. Wildlife considerations for northern hardwood stands involve maintaining tree species diversity, the protection of den/nesting trees & snags, protection and/or creation of coarse woody debris (CWD) and maintaining a scattering of any mast-producing trees/shrubs. Much of the hemlock and other conifers that were once found as components of these hardwood sites are underrepresented. Opportunities to re-establish a mesic conifer and/or mast producing components should be explored where feasible. Care should be taken to protect any conifer plantings from foraging herbivores. This will insure use by many species of wildlife. Examples of species found include downy woodpecker, porcupine, northern goshawk, spotted salamander, wild turkey, and white-tailed deer. Many species of raptors may nest in hardwoods such as these and any timber work contracts should include clauses for protecting nesting raptors.

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

COMPARTMENT 173 Sections 13-14 & 24, T28N-R7W and Sections 18-19, T28N-R6W, Kalkaska County  
The nearest active sand/gravel pit is more than three miles west. There is potential for sand and gravel within the compartment, but any surface mining would need to avoid oil & gas infrastructure. The compartment is within the Silurian reef trend and several successful wells have been drilled in and around the compartment; only one appears to still be producing. There may be potential for additional reef discoveries beneath the compartment as well as potential for gas storage. The compartment is also on the southern edge of the Antrim Shale gas play. There has been some minor Antrim production in this area, but Antrim wells this far south tend to be more marginal, and it is unlikely additional Antrim wells will be drilled within the compartment as long as natural gas prices remain low. State-owned mineral rights in the southern half of the compartment are currently leased and held by production. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights

### **Vehicle Access:**

Twin Lake Road provide paved access along the north boundary of the compartment. Wood and Priest Road are good gravel roads. The interior of the compartment can be access through poor dirt roads and two track trails.

### **Survey Needs:**

Survey's will be needed check site condition layer for location.

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

The Leetsville ORV trail runs through the western portion of the compartment, the trail head is off Country Road 612. The Michigan Cross Country Cycle Trail run down the Priest Road and Croy Lake Road. There is a boat launch at Rainbow Lake off Priest Rd. The timberland offers various hunting and hiking opportunities.

### **Fire Protection:**

Fire protection for these compartments is directed out of the Kalkaska Field Office with back up assistance from the Gaylord unit as well as the Regional OSC if required. Local volunteer fire departments would also be dispatched in the event of a wildfire. Travel time from Kalkaska is roughly 15 minutes and roads into the area are fairly accessible. Water points for fire control could be established at one of the creek crossings or the water access point on Leetsville road. Submitted by: Rod Rader, DNR, Fire Supervisor Traverse City Field Office.

### **Additional Compartment Information:**

None at this time.

### **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**

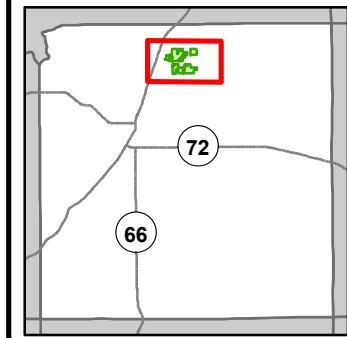
### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

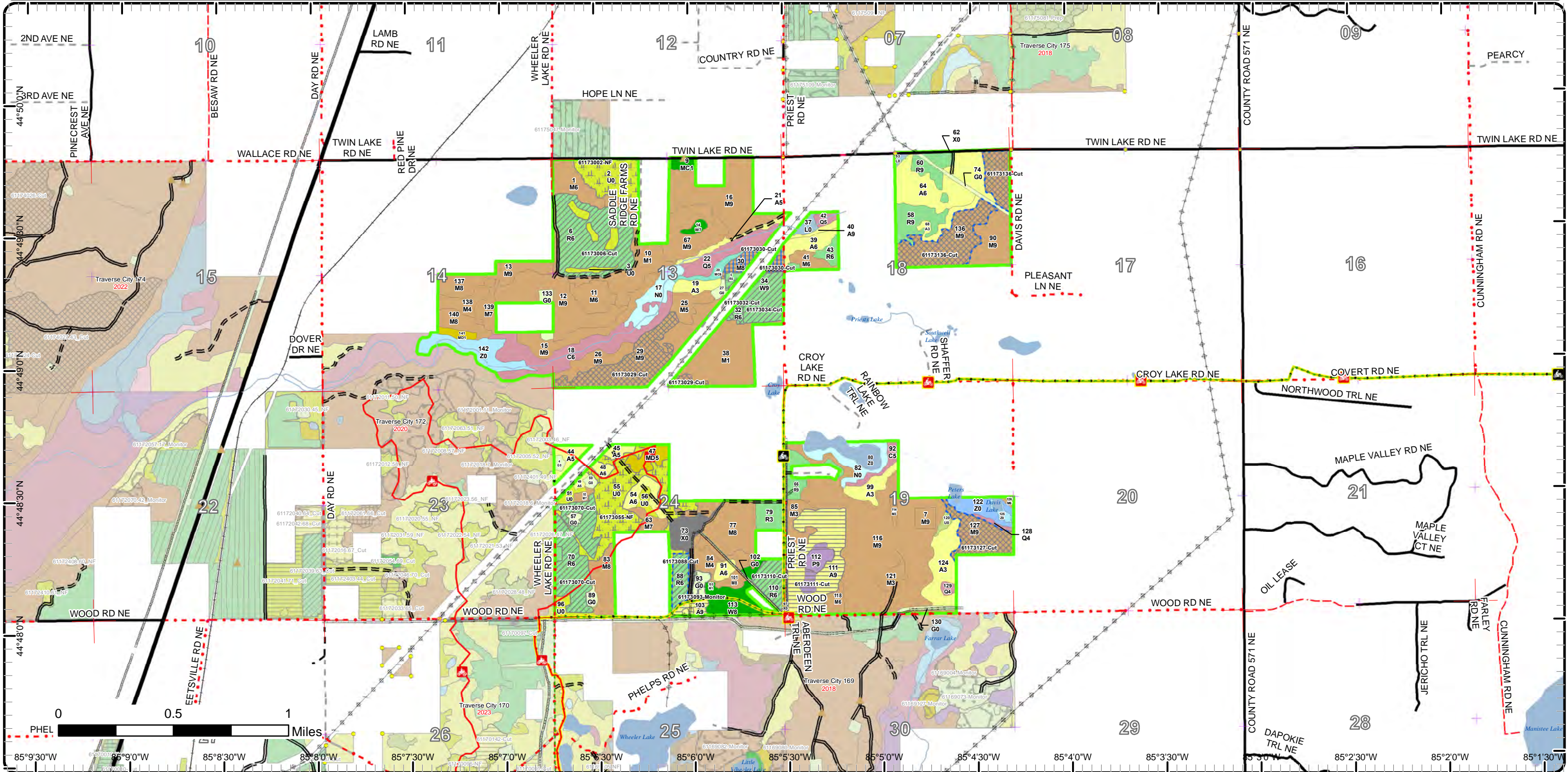


# Cover Type & Treatments Map

Compartment: 173  
 T28N R06W Sec. 18-19  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Boardman Plains  
 YOE: 2024  
 Acres: 1504.2 GIS Calculated  
 Examiner: Thomas Peterson III  
 Map Revised: 10/17/2022  
 Map Phase: Post Review



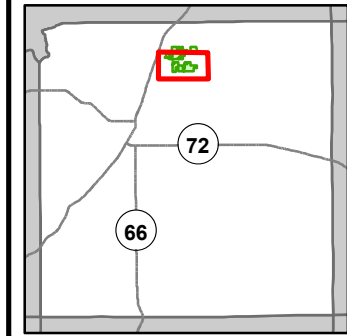
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- + Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Forest Access Route
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- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 621 - Floating Aquatic
- 622 - Lowland Shrub
- 623 - Emergent Wetland



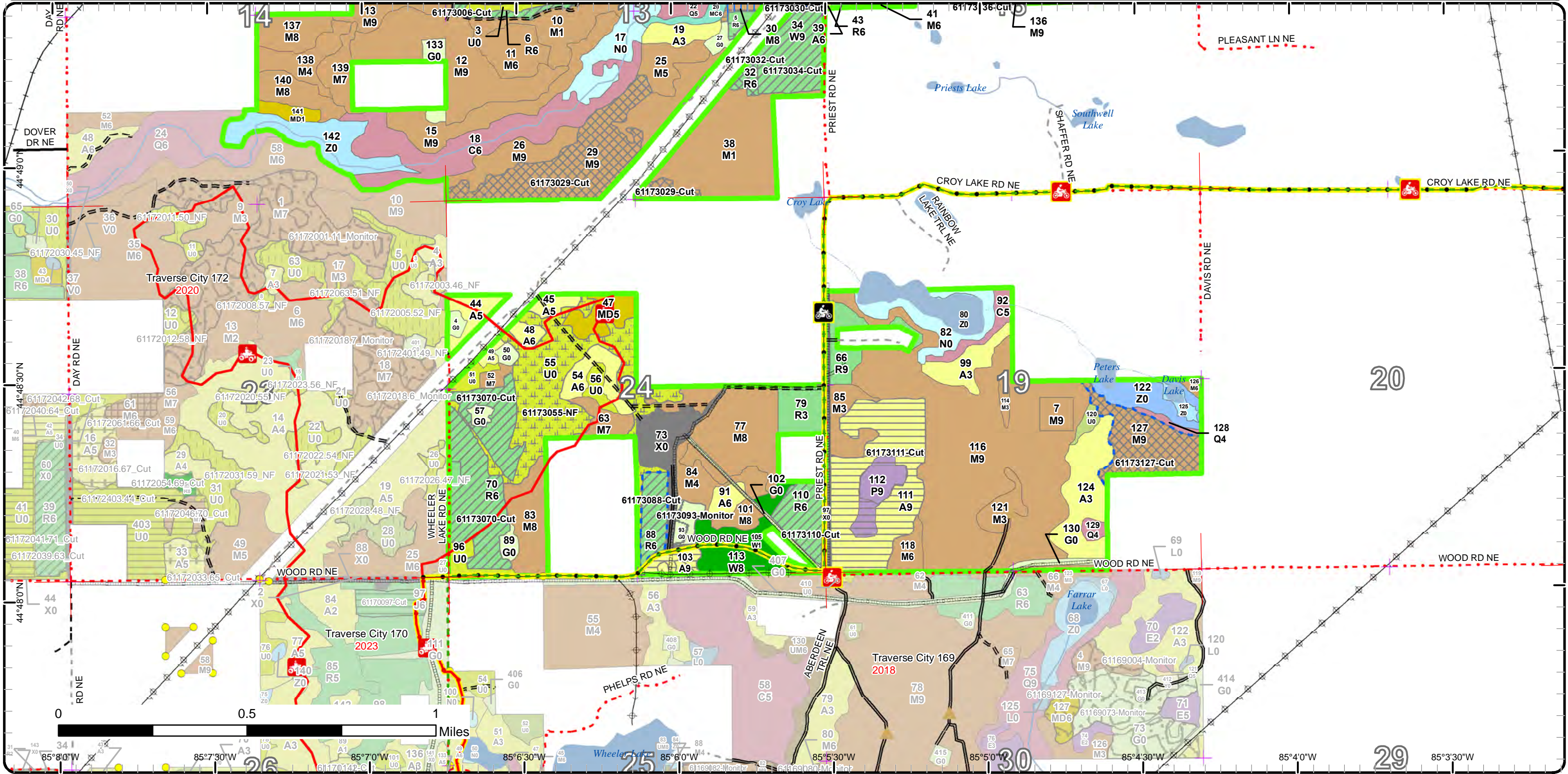


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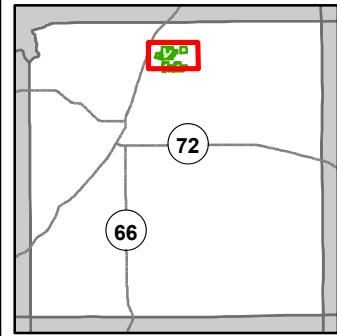
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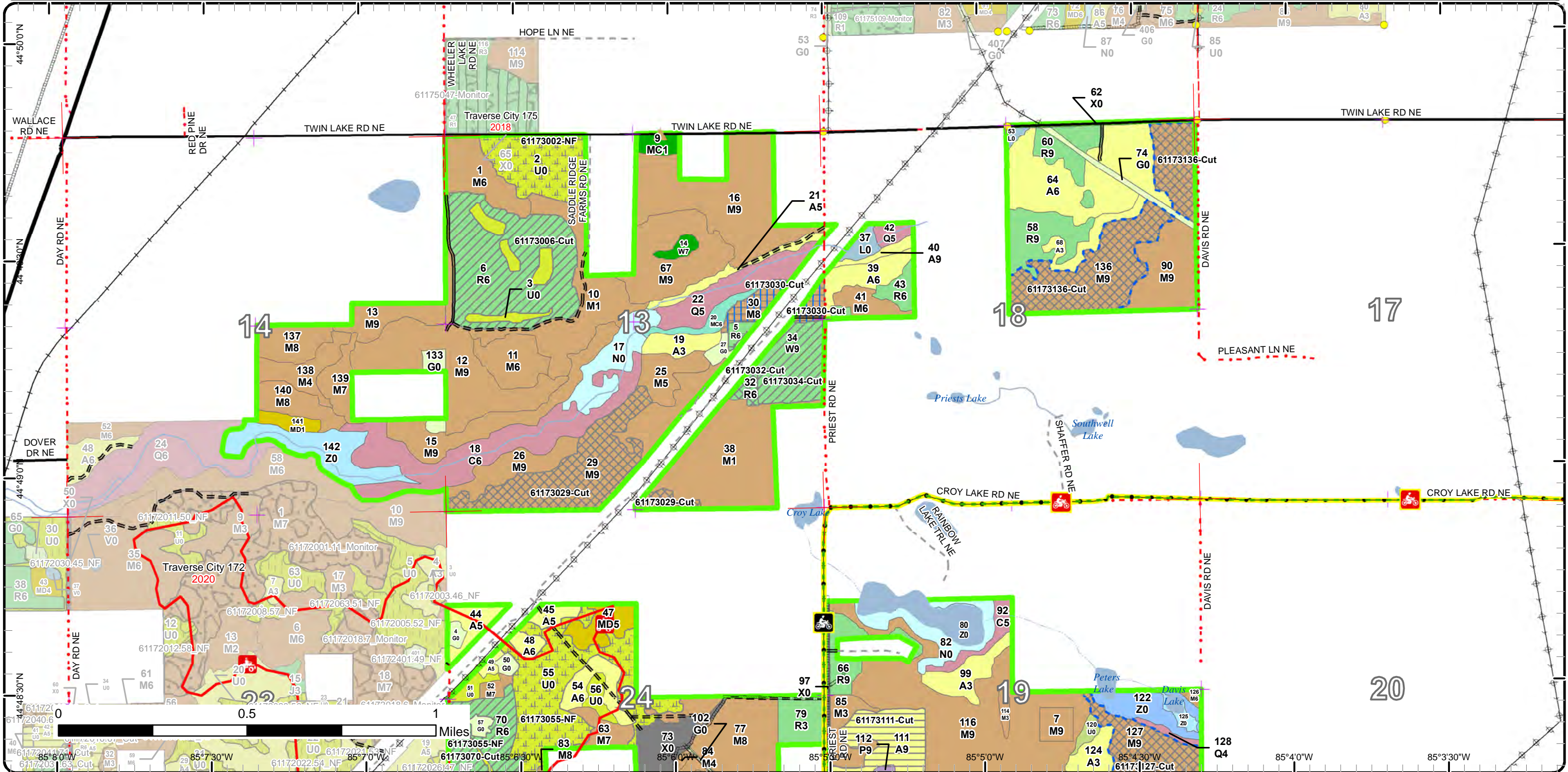


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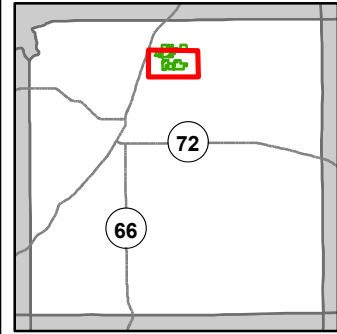
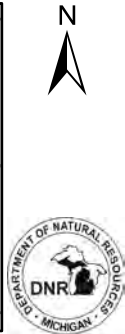
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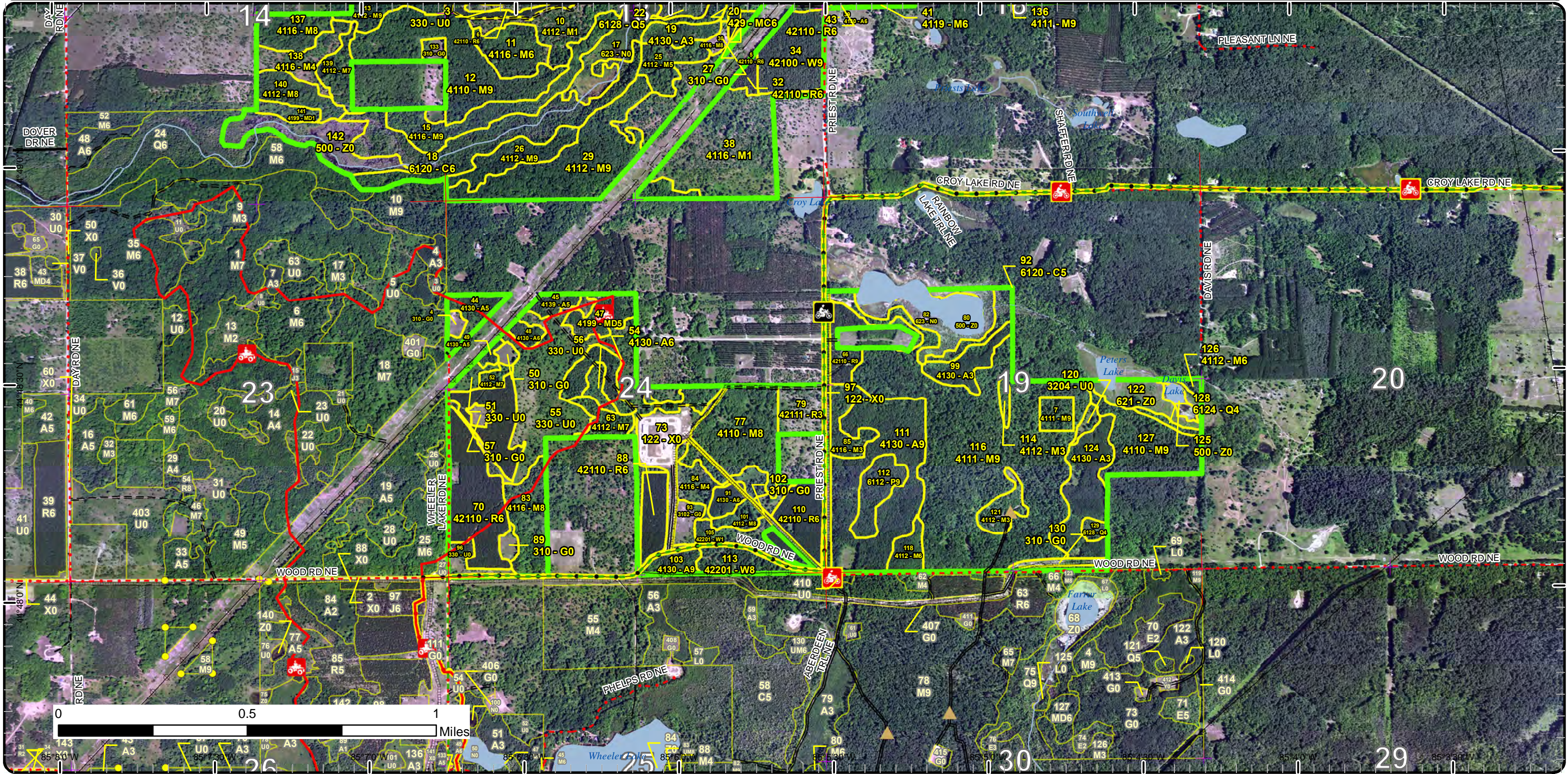


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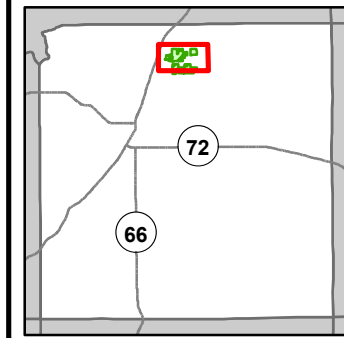
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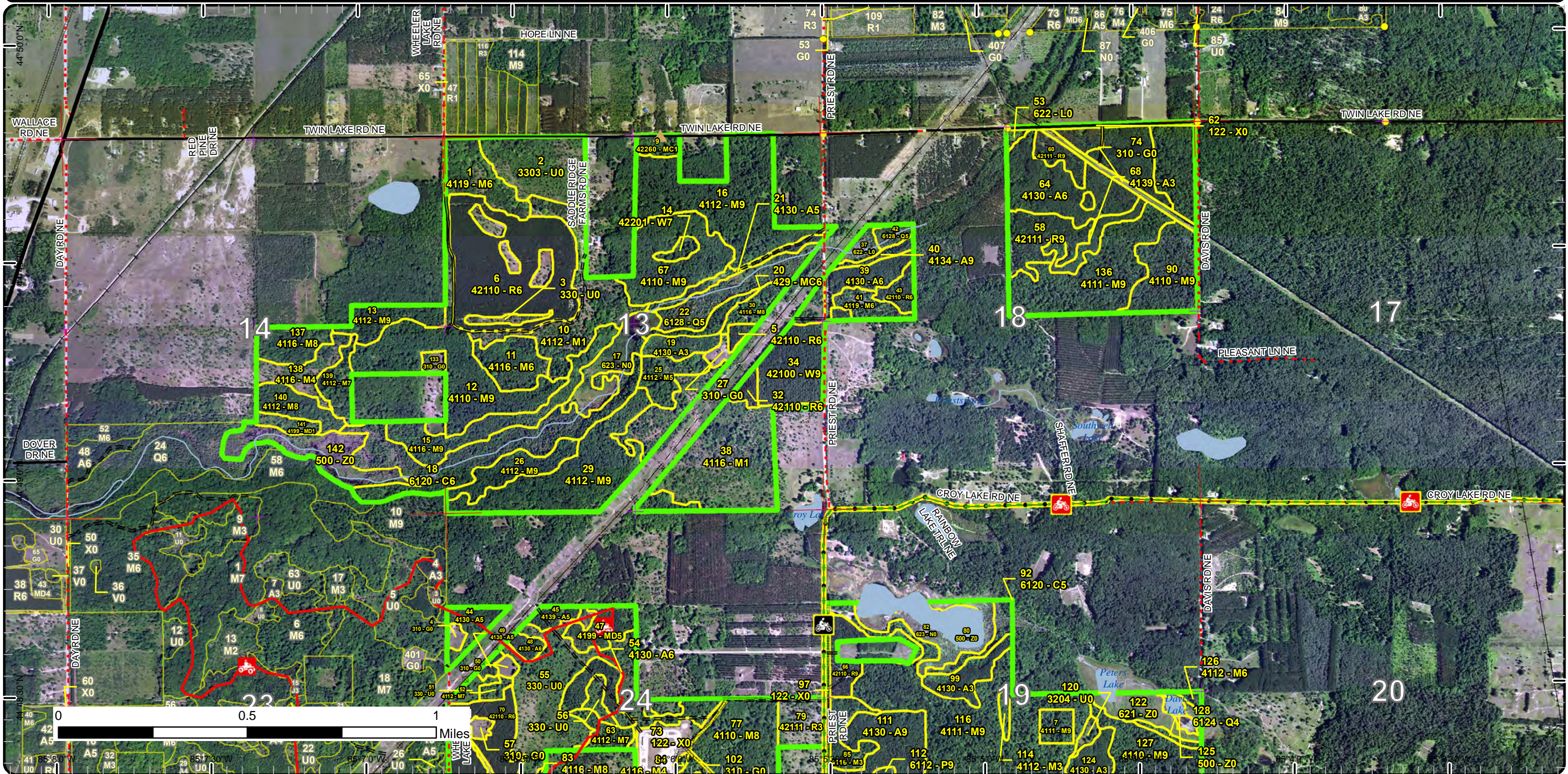


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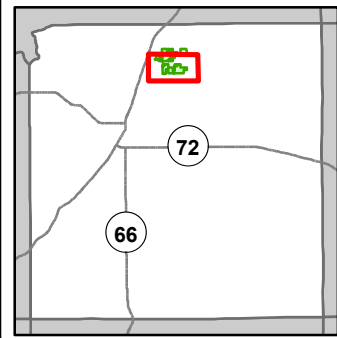
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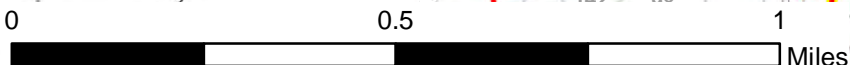
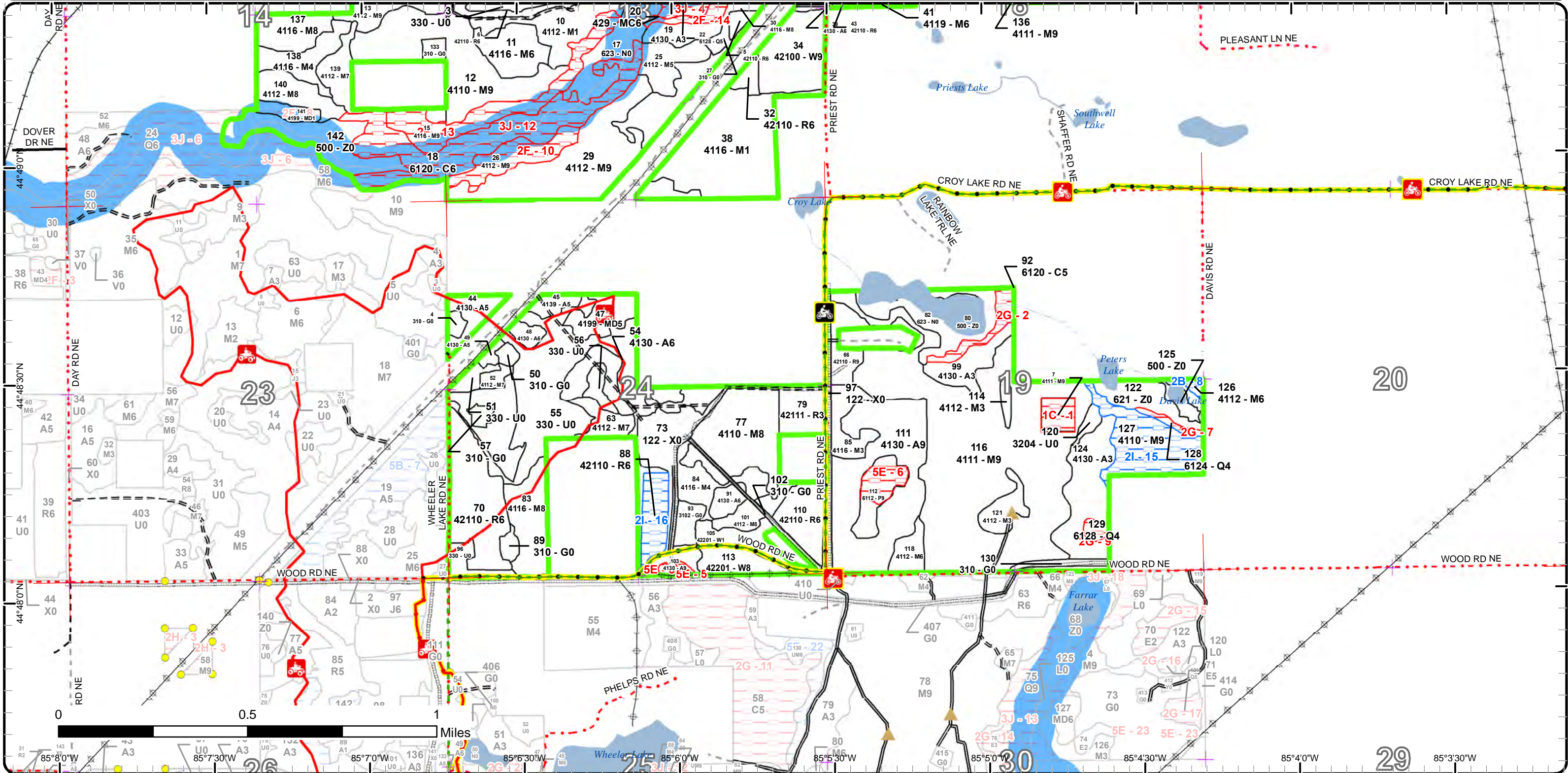


# Special Conservation Areas

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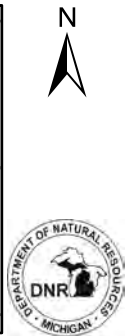
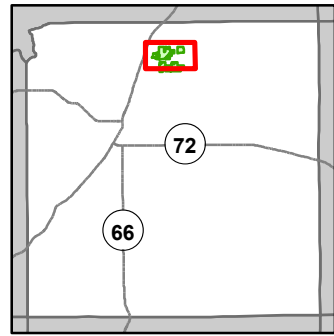
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- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- 2I: Survey needed
- ▭ Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- ▭ Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



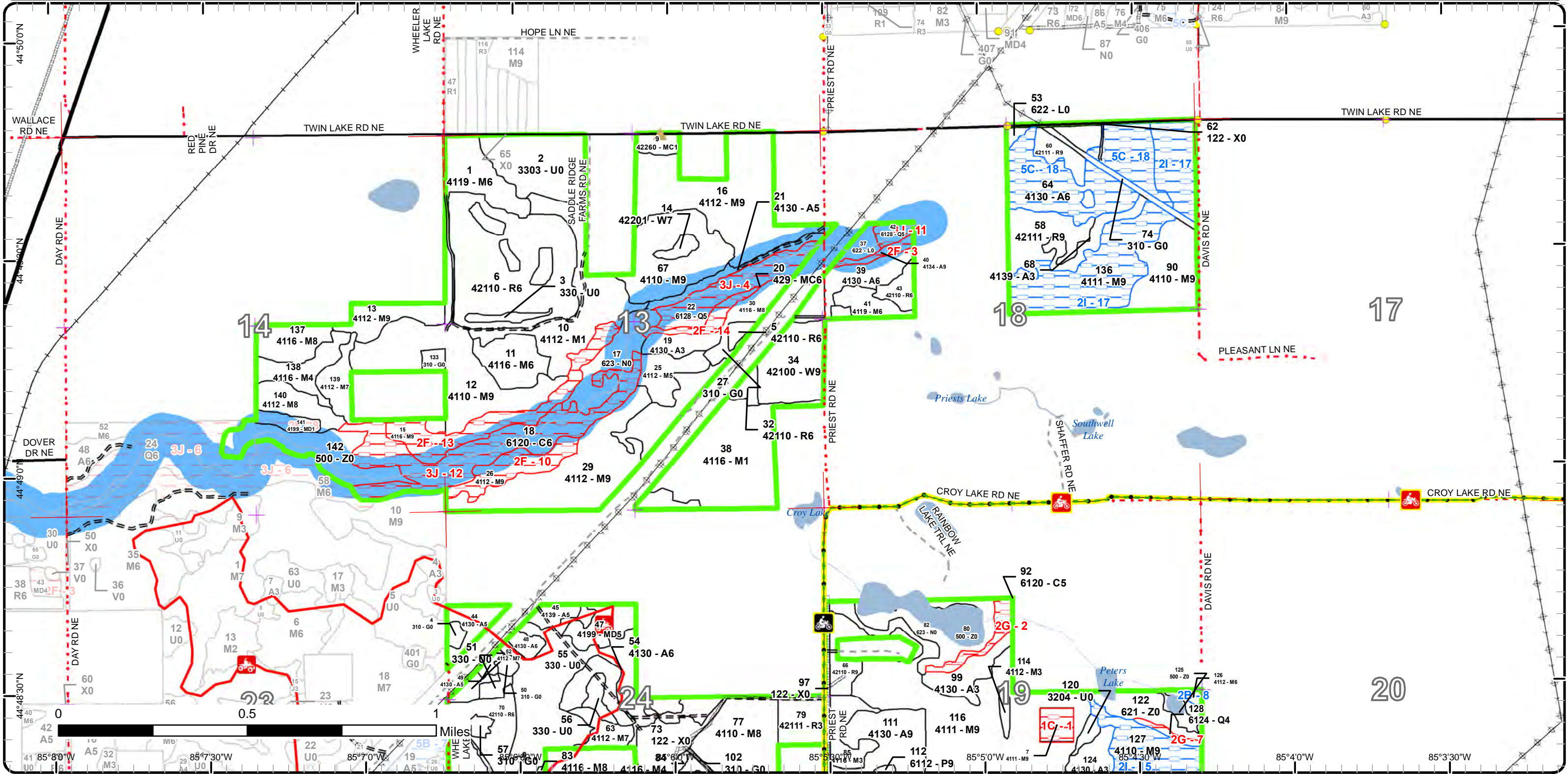


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- Powerline
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer





# Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 173 Year of Entry 2024

Thomas Peterson III : Examiner



## 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	0	0	51	25	65	48	0	0	3	0	0	0	0	0	0	0	0	192
Cedar	0	0	0	0	0	0	0	0	0	6	44	0	0	0	0	0	0	0	50
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Low-Density Trees	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Lowland Aspen/Balsam Poplar	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	5	2	18	0	0	0	0	0	0	0	0	25
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Marsh	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Mixed Upland Deciduous	0	0	4	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	18	89	33	13	0	7	267	224	45	0	0	0	0	0	43	738
Red Pine	0	10	0	0	122	0	21	27	0	0	0	0	0	0	0	0	0	0	180
Upland Conifers	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Water	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
White Pine	0	0	0	0	0	0	9	21	0	3	0	0	0	0	0	0	0	10	43
<b>Total</b>	<b>246</b>	<b>10</b>	<b>8</b>	<b>69</b>	<b>236</b>	<b>118</b>	<b>91</b>	<b>48</b>	<b>17</b>	<b>281</b>	<b>286</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>53</b>	<b>1506</b>





## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2024

Acres of Harvest

Compartment 173  
Total Compartment Acres: 1,504

Commercial Harvest - 248  
Harvests with Site Condition - 88  
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	57	0	0	0	0	0	0	0	0	57
Northern Hardwood	0	122	0	10	0	0	0	0	0	132
Red Pine	0	3	0	0	0	121	2	0	0	126
White Pine	0	0	0	0	0	21	0	0	0	21
<b>Total</b>	<b>57</b>	<b>125</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>142</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>336</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	336	0	0	0	0	0	5	0	82	422
Next Step	0	0	0	0	0	5	197	0	0	202
<b>Total</b>	<b>336</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>202</b>	<b>0</b>	<b>82</b>	<b>624</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>2</b>	<b>61173002-NF</b>	26.1	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. 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. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
<b>5</b>	<b>61173005-Cut</b>	2.1	42110 - Planted Red Pine	Poletimber Well	58	111- 140	Harvest	Overstory Removal	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Overstory removal with no retention due to small size of stand and HRD being established in stand. Protect all regen during harvest.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of desirable hardwood species. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
<b>6</b>	<b>61173006-Cut</b>	55.7	42110 - Planted Red Pine	Poletimber Well	39	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Remove 1/3 of the volume of stand by systematic thinning stand. This will be completed by third row thinning stand. Rows seem to be wide enough to cut 1 row leave 2 rows. Remove all trees in cut rows to create future access for stand. If stand is too tight to get equipment down cut 2 rows leave 4 rows is acceptable layout of the stand.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Not a regen cut <u>Regen:</u></p> <p><u>Other</u> Check with Forest Health Specialist to see if HRD spray spec is needed in this area during sale setup. <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>29</b>	<b>61173029-Cut</b>	44.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Stand is currently at an average of 128 basal area. Thin stand down to average basal area of 80. Create 4 caps 1-2 acres in size. Ideally these regeneration gaps will be were there is sugar maple regeneration present. However if 4 pockets of sugar maple regeneration can't be found, space gaps out accordingly. Cut all ironwood beech down to 1".

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any desirable hardwood species will be acceptable.

Regen:

Other Dip into stand 26 as much as possible. Stand 26 is steep. Mark any trees a piece of equipment can reach down and grab without having to be on steep slope.

Comment:

If 50% sugar maple regen gaps cannot be found, still create gaps. These gaps will be managed to keep desirable hardwood species in stand. Spraying, roller chopping, scarification, planting, or any other tactics will be acceptable.

Site Condition

Proposed Start Date: 10/1 /2023

<b>30</b>	<b>61173030-Cut</b>	9.9	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	92	51-80	Harvest	Seed Tree	411 - Northern Hardwood	Even-Aged	No
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Prescription Seed tree harvest. Leave less than 1 trees per acre across stand. These trees should be desirable species left to help seed in stand. Use 4 inch cutting spec. Protect all advanced regeneration. No retention due to stand being small stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any Desirable species such as red maple, white pine or other mixed deciduous species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>32</b>	<b>61173032-Cut</b>	3.1	42110 - Planted Red Pine	Poletimber Well	58	111-140	Harvest	Single Tree Selection	4211 - Planted Red Pine	Two-Aged	No
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Prescription Thin stand down to basal area of 80 to promote hardwood regeneration into stand. Clearcut around dieback pocket to capture timber and stop spread of HRD pocket? Ask forest health specialist on how big clearcut area should be. Clearcut area might need to go into stand 34.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Thin stand to try to promote hardwood regeneration.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>34</b>	<b>61173034-Cut</b>	21.2	42100 - Planted White Pine	Sawtimber Well	62	111- 140	Harvest	Systematic Thinning	411 - Northern Hardwood	Two-Aged	No
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Prescription Cut 1 Row leave 1 Row. Open canopy up for hardwood species regeneration. Leave Rows of white pine to help aid as nurse crop for  
Specs: hardwood regeneration. Protect all advanced regeneration in stand.

Next Step  
Treatments:

Acceptable Any mixture of desirable hardwood species.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>55</b>	<b>61173055-NF</b>	55.5	330 - Low-Density Trees	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and  
Specs: 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. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>70</b>	<b>61173070-Cut</b>	42.9	42110 - Planted Red Pine	Poletimber Well	38	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Remove 1/3 of the volume of stand by systematic thinning stand. This will be completed by third row thinning stand. Rows seem to be wide  
Specs: enough to cut 1 row leave 2 rows. Remove all trees in cut rows to create future access for stand. If stand is too tight to get equipment down cut 2 rows leave 4 rows is acceptable layout of the stand.

Next Step  
Treatments:

Acceptable Not Regeneration cut.  
Regen:

Other Check with Forest Health Specialist to see if HRD spray spec is needed in this area during sale setup.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>88 61173088-Cut</b>	9.6	42110 - Planted Red Pine	Poletimber Well	38	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Remove 1/3 of the volume of stand by systematic thinning stand. This will be completed by third row thinning stand. Rows seem to be wide enough to cut 1 row leave 2 rows. Remove all trees in cut rows to create future access for stand. If stand is too tight to get equipment down cut 2 rows leave 4 rows is acceptable layout of the stand.

Next Step  
Treatments:

Acceptable Not A regeneration harvest.  
Regen:

Other Check with Forest Health Specialist to see if HRD spray spec is needed in this area during sale setup.  
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023

<b>103 61173103-Cut</b>	3.8	4130 - Aspen	Sawtimber Well	56	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut stand. Leave retention around two small wetland pockets following BMP Guidelines. Cut all trees 2 inches or greater at DBH.  
Specs:

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

Acceptable Fully Stocked Stand of Aspen with any mixture of desirable species.  
Regen:

Other Gasline and powerline near stand.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>110 61173110-Cut</b>	12.3	42110 - Planted Red Pine	Poletimber Well	38	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Remove 1/3 of the volume of stand by systematic thinning stand. This will be completed by third row thinning stand. Rows seem to be wide enough to cut 1 row leave 2 rows. Remove all trees in cut rows to create future access for stand. If stand is too tight to get equipment down cut 2 rows leave 4 rows is acceptable layout of the stand.

Next Step  
Treatments:

Acceptable Not a regeneration cut  
Regen:

Other Check with Forest Health Specialist to see if HRD spray spec is needed in this area during sale setup.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>111 61173111-Cut</b>	53.3	4130 - Aspen	Sawtimber Well	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut Stand with standard area retention. Cut all trees 2 inches or greater at DBH. Do not cut any cedar. Mark to leave 3-10 white pine scattered throughout sale. Leave retention in Stand 112 which is more lowland aspen . Parts of stand are wet, use dry summer or frozen ground spec during harvest. Retention is already mapped out in MIFI. Retention can be tweaked a bit to capture what is in field. Per request of wildlife use Brush pile spec and leave drumming logs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, with any mix desirable species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>127 61173127-Cut</b>	24.1	4110 - Sugar Maple Association	Sawtimber Well	98	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin Stand down to Basal an average basal area of 80. Remove Poor quality trees first, than work on spacing. Cut stand dry summer to create scarification.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any desirable Northern Hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Gaps will be created naturally when larger sugar maples are harvested, no gap management will be prescribed.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>136 61173136-Cut</b>	54.0	4111 - S.Maple, Hard Mast Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark Stand to average basal area of 70-80. If sugar maple regen is present marking stand down lower than target Basal Area is acceptable. Create 5-10 regeneration gaps that are 1 acre to 2 acres in size. These gaps must contain at least 50 percent sugar maple seedlings. Within in these gaps cut all trees that are merchantable. Protect all sugar maple seedlings in these gaps during harvest. Cut ironwood and beech down to 1 inch in DBH throughout sale area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple and / or other desirable hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> If 50% sugar maple regen gaps cannot be found, still create gaps. These gaps will be managed to keep desirable hardwood species in stand. Spraying, roller chopping, scarification, planting, or any other tactics will be acceptable.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

**Approved Treatments:**

<b>93 61173093-Monitor</b>	4.6	3102 - Grass	Nonstocked			Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd year regen check.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); ; Pesticide, (Inactive)Skidder/Mechanical</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></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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Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

**Total Treatment Acreage Proposed: 422.3**



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Thomas Peterson III : Examiner

Compartment: 173  
Year of Entry: 2024

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

	Availability for Management			Dominant Site Conditions								
	Acres	Available	With Condition	2B	2I	5C	1C	2F	2G	3J	5E	
191	144	<b>43</b>	4	Aspen			<b>43</b>		3		0	1
49	0	<b>0</b>	49	Cedar						6	44	
28	28	<b>0</b>	0	Herbaceous Openland								
102	102	<b>0</b>	0	Low-Density Trees								
10	5	<b>0</b>	6	Lowland Aspen/Balsam Poplar								6
25	0	<b>0</b>	25	Lowland Conifers					0	4	21	
5	5	<b>0</b>	0	Lowland Shrub					0			
31	31	<b>0</b>	0	Marsh							0	
13	9	<b>0</b>	4	Mixed Upland Deciduous					4			
4	4	<b>0</b>	0	Natural Mixed Pines								
739	620	<b>79</b>	40	Northern Hardwood	<b>1</b>	<b>78</b>		5	35		0	
183	174	<b>10</b>	0	Red Pine		<b>10</b>						
5	0	<b>0</b>	5	Upland Conifers					5			
2	2	<b>0</b>	0	Upland Shrub								
30	30	<b>0</b>	0	Urban								
46	46	<b>0</b>	0	Water								
43	43	<b>0</b>	0	White Pine								
1,507	1,243	<b>131</b>	133	Total Forested Acres	<b>1</b>	<b>88</b>	<b>43</b>	5	47	10	64	7
	82%	<b>9%</b>	9%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
 Thomas Peterson III: Examiner

Compartment: 173  
 Year of Entry: 2024

2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is a buffer to the headwaters of the Rapid River.							
5	<b>Unavailable</b>	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Thomas Peterson III : Examiner

Compartment: 173  
Year of Entry: 2024

8	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2F: Too steep</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2F: Too steep</b>	22	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Traverse City Mgt. Unit  
Thomas Peterson III: Examiner

Compartment: 173  
Year of Entry: 2024

14	<b>Unavailable</b>	<b>2F: Too steep</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>2I: Survey needed</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>2I: Survey needed</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>2I: Survey needed</b>	54	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

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





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
1	4119 - Mixed Northern Hardwoods	Poletimber Well	16.0	47	1-50	N/A	2021 - Stand is pole size hardwoods stand. Stand has several aspen clones in it. Stand has super canopy of larger basswood in it.																																												
<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>Bigtooth Aspen</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Basswood</td> <td>20</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>35</td> <td>Pole/Sapling</td> <td>5</td> <td>47</td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	15	Pole/Log	9		Black Cherry	10	Pole/Sapling	5		Basswood	20	Log/Pole	12		Sugar Maple	35	Pole/Sapling	5	47	Red Maple	20	Pole/Sapling	5		<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>Sugar Maple</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	High	5 - 10 feet	Sapling	Ironwood	Low	5 - 10 feet	Sapling				2011 - Stand is a hardwood sapling stand that is starting to convert to pole timber. Nice sugar maple regen. Some pockets of aspen pole timber and some scattered basswood log trees.		
Canopy Species	% Cover	Size Class	DBH	Age																																															
Bigtooth Aspen	15	Pole/Log	9																																																
Black Cherry	10	Pole/Sapling	5																																																
Basswood	20	Log/Pole	12																																																
Sugar Maple	35	Pole/Sapling	5	47																																															
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2	3303 - Mixed Low Density Trees	Nonstocked	26.1		Unspecified	Managed Opening	2021 - Stand is seeding in. Good chance it will be forested next year of entry. Stand has, red pine. white pine, jack pine. red maple, black cherry, and some red oak scattered throughout it. FTP states 400 red oak were planted in this stand in 1990's. Stand is pretty hilly lots of																																												
3	330 - Low-Density Trees	Nonstocked	8.9			No																																													
4	310 - Herbaceous Openland	Nonstocked	1.8			Managed Opening	2021 - Old well pad, plugged in 1991.																																												
5	42110 - Planted Red Pine	Poletimber Well	2.1	58	111-140	N/A	2021 - Stand has one of the root disease. It has hit majority of stand at this time. Stand has good hardwoods regen under it. Remove top and turn stand into hardwood stand. 2007 - Stand Thinned - Priest lake Red Pine (61-001-2004)																																												
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6	42110 - Planted Red Pine	Poletimber Well	55.7	39	171-200	N/A	2021 - Stand has tight canopy at this time. Stand has never been third row thinned. Stand is ready to be third row thinned. 1984 - FTP Completed for Red Pine Planting.																																												
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7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	5.0	89	81-110	N/A	2021 - Stand originally part of stand 116, stand split to show Walter Research Project. Canopy has a lot of room to grow at this time. Regeneration is undesirable at this times with a few pockets of aspen were stand was thinned harder. Stand also has an area designated to WRP for hardwood regeneration. Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039) 2011 - Stand is pretty poor quality, lots of multi-stem stuff and defect. West half of stand was thinned in 07 and the eastern portion was cut in 2011. 2010 - Rest of Stand Thinned Rainbow Lake Revisited (61-055-09) 2008 - Stand Thinned - Rainbow Lake Hardwoods (61-004-04)																																												
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9	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	4.1	15	Immature	N/A	2021 - Stand was on opening last year of entry Scotch pine seeded in from private land to north of stand.																																														
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10	4112 - Maple, Beech, Cherry Association	Sapling Poor	31.9	30	Immature	N/A	2021 - Stand is an opening filling in. Mostly cherry with some pockets of aspen and maple seedling in.																																														
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11	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	13.1	54	51-80	N/A	2021 - Most of aspen has fallen out stand has converted to northern hardwood stand 2011 - Stand is and A5 with an M3/M4 underneath. Nice maple regen mostly sugar. Aspen is quaking and is poor quality stuff.																																														
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12	4110 - Sugar Maple Association	Sawtimber Well	44.7	100	51-80	N/A	2021- Stand has lots of ironwood in understory. Stands current basal area in 100 at this time. Hold stand for another 10 year and see if basal area is high enough to thin stand again. 2007 - Stand Thinned Twin Lake Road Hardwoods (61-003-04)																																														
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13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.8	89	81-110	N/A	2021 - Stand is transitioning into log stand from pole stand. Average basal area is 85 at this time. 2015 - Stand was thinned in April of 2015 (Wheeler Dealer Hardwoods 61-017-12-01). Residual BAs around 80sqft/ac																																														
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<b>14</b>	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Poor	2.6	87	1-50	N/A	2021 - Stand is in a bit of a frost pocket filling in nice with sugar maple regen. With scattered white pine logs in the overstory																																																				
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<b>15</b>	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	22.0	94	81-110	N/A	2021 - Stand is a bluff on the north side of the Rapid River. Very Steep terrain dropping down to rapid river. Stand has a few clones of bigtooth aspen.																																																				
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<b>16</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	51.3	93	81-110	N/A	2022 - Stand has average basal area of 88. Stand has a lot of ironwood and beech in it at this time. Stand is not ready for another thinning at this time. 2007 - Stand Thinned Twin Lake Road Hardwoods (61-003-04)																																																				
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<b>17</b>	623 - Emergent Wetland	Nonstocked	15.8			No	2021 - Rapid River runs through stand																																																				
<b>18</b>	6120 - Lowland Cedar	Poletimber Well	43.6	99		N/A	2021 - A lowland conifer stand that has the rapid river running through it. North part of the stand is more fir and red maple. South of the river turns into more cedar, spruce and hemlock. There is some beaver activity in this stand.																																																				
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19	4130 - Aspen	Sapling Well	6.6	24	Immature	N/A	2021 - Stand is starting to get some poles growing in it. Should be a pole stand next year of entry. 1998 - Stand Clearcut - Rapid River Hardwoods (61-037-94)																																													
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20	429 - Mixed Upland Conifers	Poletimber Well	5.1	78	81-110	N/A	Stand is on a bluff sloping down to the headwaters of the rapid river. Stand is mostly and upland conifer with a mix of white pine and fir with a mix of aspen and red maple.																																													
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21	4130 - Aspen	Poletimber Medium	6.4	39	51-80	N/A	2022 - Stand is pole stand with some sawlogs in it. Not sure how much of stand could be cut after buffering out the Rapid River. Stand runs along the old railroad grade. Stocking becomes more sparse to the west.																																													
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22	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	17.6	94		N/A	2021 - Stand is a lowland conifer stand with some mixed red maple. Transition ground to the headwaters of the Rapid River.																																													
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25	4112 - Maple, Beech, Cherry Association	Poletimber Medium	10.0	91	1-50	N/A	2021 - Lots of open spots, mixed stand from some logs to saplings. Stand Appears to be an old shelter wood. Could not find any timber sales in compartment folder to prove that. 2011 - Stand has some scattered logs but is mostly a pole stand with a few clones of bigtooth aspen. Lots of hazelnut in the understory also getting some nice sugar maple regen.																																													
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26	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.6	96	81-110	N/A	2021 - Stand is very steep heading down to Rapid River. All Ash in stand appears so be blown over. Stand is just starting to turn into log stand at this time. 2011 - Stand is on some hilly terrain heading down to the Rapid River. Stand has some medium quality logs and some poor quality stems that could be removed. Terrain is less steep to the east end of the stand.																																																						
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27	310 - Herbaceous Openland	Nonstocked	2.6		Immature	Managed Opening	2021 - Stand is starting to seed in with hardwood species. - Old well pad, plugged in 1980.																																																						
29	4112 - Maple, Beech, Cherry Association	Sawtimber Well	44.1	95	81-110	N/A	2021 - Stand has a wall of ironwood in understory at this time. Stands Current Average Basal Area is 128 at this time. Stands is a mix of poles and sawlogs at this time. Stand is ready to be thinned. 2011 - Stand is of poor quality. Stand was thinned in 94 pretty heavily. Lots of ironwood and beech in the understory. Stocking in the stand is variable. Some pockets were thinned heavily and then there is pockets that were hardly touched.																																																						
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30	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	9.9	92	51-80	N/A	2021 - Stand has poor quality clumpy maple. Stand has a few open spots. Stand has vain of aspen running trough it. Stand also has some decent red maple / white pine regeneration in it.																																																						
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32	42110 - Planted Red Pine	Poletimber Well	3.1	58	111-140	N/A	2021 - Basal area around 130 at this time. There is one dead tree at north end of stand with start of die back pocket. Stand is not ready to be thinned but cutting the dieback pocket out when stand 34 is thinned is a possibility. 2007 - Stand Thinned - Priest lake Red Pine (61-001-2004)																																																						
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34	42100 - Planted White Pine	Sawtimber Well	21.2	62	111-140	N/A	2021 - Stand has a good mixture of desirable hardwood species at this time. Crowns have no more room to go. Thin stand to open up canopy to help release hardwood species. 2011 - Last treated in 98. White pine is poor quality. Crowns look like they still have room to grow. Hold on a thinning and let the white pine work as a nurse crop and let the hardwood regen get a little more established. Maybe look at leaving 30-40 sqft/ac of white pine next YOY and letting the stand convert to hardwoods.																																																						
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37	622 - Lowland Shrub	Nonstocked	3.8			No	12/17/2021 - Rapid River Runs Through Stand.																																																						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
<b>38</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	56.9	37	1-50	N/A	2021 - Opening is still filling. Lots of open spots still. Stand does have a mix of pole timber and saplings. Stand should continue to fill in over the next 10 years. Some white pine has also seeded in from the stand to the north. There is also red pine seeded in on south side of stand Stand has a few aspen clones located throughout it. Stand also has some decent sugar maple regen in spots as well.2011 - Stand is an opening filling in. Let stand convert to a hardwood stand some nice pockets of maple regen already present. Also a few clones of aspen out there with some scattered cherry pole timber.																																																			
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<b>39</b>	4130 - Aspen	Poletimber Well	10.2	39	51-80	N/A	2021 - Stand is fully stocked aspen stand at this time.																																																			
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<b>40</b>	4134 - Aspen, Spruce/Fir	Sawtimber Well	2.9	80	51-80	N/A	2021 - Stand is on bluff. Big aspen with balsam fir also. Leave for creek buffer.																																																			
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<b>41</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	6.9	77	51-80	N/A	2021 - Stand has an average basal area of 75 at this time. Stand has some open area in it. Stand has a lot of undesirable regen in it at this time. 2015 - Stand Thinned - 'Tuden's trees' 61-029-14-01. All the aspen was removed and is already sprouting up in small A3 pockets. 2011 - Stand is a poor quality hardwood stand mixed with some pockets of Bigtooth aspen. Hardwoods are more on the west end of the stand and turning to more aspen as you head east. 2006 - Stand Thinned - Wood Road Mix 61-002-2004																																																			
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<b>42</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	3.2	75	1-50	N/A	2021 - Stand contains the headwaters to the Rapid River.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>43</b>	42110 - Planted Red Pine	Poletimber Well	6.0	58	111-140	N/A	2021 - Stand average basal are of 140. Canopy still has room to grow. Stand has some desirable hardwoods regen in it at this time. 2007 - Stand Thinned - Priest lake Red Pine (61-001-2004)		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		100	Pole	8	58	Beech	Low	5 - 10 feet	Sapling
						Red Maple	Low	5 - 10 feet	Sapling
						Sugar Maple	Low	5 - 10 feet	Sapling
<b>44</b>	4130 - Aspen	Poletimber Medium	7.2	40	51-80	N/A	2021 - Stand has some openings scattered throughout it. Some aspen is still in sapling stage.		
<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		10	Sapling/Pole	4		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Bigtooth Aspen		80	Pole/Log	8	40	Cherry (spp.)	Low	5 - 10 feet	Sapling
Black Cherry		10	Pole/Sapling	5		Red Maple	Low	5 - 10 feet	Sapling
<b>45</b>	4139 - Aspen, Mixed Deciduous	Poletimber Medium	3.9	40	1-50	N/A	2021 - Stand has some nice red maple clones in it were aspen appears to died off. Rest of stand is an aspen pole stand		
<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		40	Pole/Sapling	5	40	Bigtooth Aspen	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		45	Pole/Sapling	5	40	Red Maple	Medium	5 - 10 feet	Sapling
Black Cherry		15	Pole/Sapling	5		Ironwood	Medium	5 - 10 feet	Sapling
<b>47</b>	4199 - Other Mixed Upland Deciduous	Poletimber Medium	9.3	40	1-50	N/A	2021 - Stand has larger red maple scattered throughout it. Stand is in transition between pole and sapling with more trees being pole size at this time. Stand has two decent size aspen clones in with the rest being transformed to 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>
Red Maple		10	Log/XLog	16	40	Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		30	Pole/Sapling	5	40	Cherry (spp.)	Low	5 - 10 feet	Sapling
Black Cherry		20	Pole/Sapling	5		Aspen (spp.)	Medium	5 - 10 feet	Sapling
Ironwood		10	Pole/Sapling	5					
Red Maple		30	Sapling	4	40				
<b>48</b>	4130 - Aspen	Poletimber Well	3.0	40	51-80	N/A	2021 - Stand is fully stocked aspen with some red maple and cherry in understory		
<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		15	Pole/Sapling	5		Hazelnut (Spp.)	Low	< 5 feet	Tall Shrub
Bigtooth Aspen		60	Pole/Sapling	5	40	Black Cherry	Low	< 5 feet	Sapling
Black Cherry		10	Pole/Sapling	5		Red Maple	Medium	< 5 feet	Sapling
Quaking Aspen		15	Pole/Sapling	6					
<b>49</b>	4130 - Aspen	Poletimber Medium	1.6	40	51-80	N/A	2021 - Small Aspen stand, consider cutting with adjacent stands next year of entry		
<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>
Bigtooth Aspen		100	Pole	8	40	Red Maple	Low	5 - 10 feet	Sapling
						Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
<b>50</b>	310 - Herbaceous Openland	Nonstocked	1.7			Managed Opening	2021 - Old well pad, plugged in 1999.		





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
51	330 - Low-Density Trees	Nonstocked	3.2		Immature	Managed Opening	2021 - Stand has scattered Black Cherry Trees throughout Stand. 2006 - Stand Thinned - Wood Road Mix 61-002-2004																																	
52	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	2.3	81	1-50	N/A	2021 - Stand has large clumpy red maple scattered throughout it. Stand has little to no understory in it at this time. 2006 - Stand Thinned - Wood Road Mix 61-002-2004																																	
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53	622 - Lowland Shrub	Nonstocked	1.2			No	2021 - Stand has Rapid River Running throughout it.																																	
54	4130 - Aspen	Poletimber Well	9.2	38	51-80	N/A	2021 - Stand turned into pole stand this year of entry.  2011 - Stand has Leetsville ORV trail running through it.																																	
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55	330 - Low-Density Trees	Nonstocked	55.5			Managed Opening	2021 - Stand has scattered black cherry and red maple scattered throughout stand. Stand has a couple small aspen clones and a few clumps s of jack pine in it. Stand also has a few scattered shrubs.																																	
56	330 - Low-Density Trees	Nonstocked	3.5		Unspecified	Managed Opening	2021 - Stand has scattered back cherry and some maple scattered throughout stand. Stand has some aspen encroaching in it. Could clear cut with stand 54 in future to expand aspen clone.																																	
57	310 - Herbaceous Openland	Nonstocked	1.8			Managed Opening	2021 - Stand has a few red pine seeded into it. - Abandoned well site, plugged in 1999.																																	
58	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	16.8	60	111-140	N/A	2021 - Stands average basal area is around 125 square feet. Stand appears to be healthy no die back pockets at this time, lot of beech in understory. Canopy has room to grow. Hold stand till it reaches a basal area of 180 then thin stand again. 2007 - Stand Thinned - Priest lake Red Pine (61-001-2004)																																	
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60	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	9.9	60	81-110	N/A	2021 - Stand thinned last two years of entry. Average Basal area is around 105 at this time. Canopy has a lot of room to grow. There is also a die back pocket in this stand. 2015 - Stand was thinned for a second time in August of 2015 'Tuden's Trees' 61-029-14-01. 2007 - Stand Thinned - Priest lake Red Pine (61-001-2004)																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
62	122 - Road/Parking Lot	Nonstocked	2.5			No	2021 - Twin Lake Road			
63	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	6.3	81	51-80	N/A	2021 - Stand has variable BA's from 0 - 90. Stand has some decent red maple and aspen saplings at this time.			
		<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	10	Pole/Log	8		White Pine	Low	< 5 feet	Sapling
		White Pine	10	Log/Pole	10		Quaking Aspen	Medium	< 5 feet	Sapling
		Red Maple	80	Log/Pole/XLog	14	81	Red Maple	Medium	< 5 feet	Sapling
							Beech	Low	< 5 feet	Sapling
							Ironwood	Low	< 5 feet	Sapling
64	4130 - Aspen	Poletimber Well	42.5	50	51-80	N/A	2021 - Stand has a lot of hardwood regeneration under the aspen in parts of stand. Stand could be clearcut, but plan does not call for any more aspen this year of entry. Stand should hold for another 10 years, does not seem to be any decline at this time.			
		<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	20	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
		Bigtooth Aspen	70	Pole	9	50	Hazelnut (Spp.)	Low	< 5 feet	Tall Shrub
		Black Cherry	10	Pole	8		Sugar Maple	Low	5 - 10 feet	Sapling
							Black Cherry	Low	5 - 10 feet	Sapling
66	42110 - Planted Red Pine	Sawtimber Well	10.1	55	111-140	N/A	2021 - Stand canopy still has room to grow, basal area is around 140 at this time. 2007 - Stand Thinned - Priest lake Red Pine (61-001-2004)			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Pine	100	Log/Pole	11	55	Red Maple	Medium	5 - 10 feet	Sapling
							Beech	Low	5 - 10 feet	Sapling
67	4110 - Sugar Maple Association	Sawtimber Well	28.3	96	81-110	N/A	2021 - Stand thinned last YOE. Stand average basal area at this time is 83. Hold stand till it reaches basal area of 120 then consider thinning stand again. 2016 - Stand Thinned - Tall trees short People (61-005-14) 1997 - Stand Thinned - Twin Lake Hardwoods (61-039-94)			
		<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	70	Log	12	96	Ironwood	High	5 - 10 feet	Sapling
		Red Maple	15	Log	12		Beech	Medium	5 - 10 feet	Sapling
		Basswood	5	Log	12					
		Black Cherry	5	Log	12					
		Beech	5	Log	12					
68	4139 - Aspen, Mixed Deciduous	Sapling Well	7.3	25	Immature	N/A	2021 - Stand is currently dominated by aspen with a very strong hardwood component growing under it. Hardwood species could over take aspen by next year of entry. Stand should be pole size by next YOE as well.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
		Sugar Maple	7	Sapling	3					
		Quaking Aspen	10	Sapling/Pole	3	25				
		Bigtooth Aspen	40	Sapling/Pole	3	25				
		Red Maple	25	Sapling/Pole	3					
		Black Cherry	8	Sapling/Pole	3					
		Beech	10	Sapling	3					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
<b>70</b>	42110 - Planted Red Pine	Poletimber Well	44.1	38	141-170	N/A	2021 - Pine has never been third row thinned. Tops are very tight, ready to be third row thinned. 1984 - FTP Completed for Red Pine Planting.																																																						
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<b>73</b>	122 - Road/Parking Lot	Nonstocked	16.9				2021 - Processing facility and a couple of wells.																																																						
<b>74</b>	310 - Herbaceous Openland	Nonstocked	4.4				2021 - Appears to be gas Pipeline ROW																																																						
<b>77</b>	4110 - Sugar Maple Association	Sawtimber Medium	35.5	88	51-80	N/A	2021 - Stand has lots of Crop trees. Lots of room in canopy for tree to grow. Some open areas with aspen regen. Regeneration is mostly undesirable species in understory at this time beech and ironwood. 2016 - Stand thinned for a second time in 2016 'Ours or Theirs Hardwood' 61-021-14-01. Cut all the aspen and most of the Beech out. Stand contains a portion of and acquisition in the NE. 2011 - Stand looks like it has been thinned through before. West part of stand is clumpy soft maple turning into more hard maple pole timber to the east. Looks like it was thinned around 1994. Overall pretty medium to poor quality stand. 1994 - Stand Thinned Wood Road Aspen (61-033-94)																																																						
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<b>79</b>	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	10.3	6	Immature	N/A	12/2/2021 - Stand is not free to grow red pine. Red pine survival rate in this stand is excellent at this time. Let stand convert to mixed stand. Undesirable species are to large to spray or be mechanical released.  - Regen Check (10/30/2018): Mortality 23%, 76%FTG, final TPA = There is quite a bit of residual cherry and white pine, Site wasn't prepped well enough to manage as a Free to Grow stand so no herbicide treatment will work. Use as a learning experience- Stand was replanted in 2018 to 1150 TPA. - Stand was planted on 5/4/2016 with 2-0 stock. This stand has been updated from a field evaluation for a																																																						
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<b>80</b>	500 - Water	Nonstocked	10.0			No	2021 - Rainbow Lake																																																						
<b>82</b>	623 - Emergent Wetland	Nonstocked	15.2			No	2021 - Wetland around rainbow lake																																																						
<b>83</b>	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	16.9	80	51-80	N/A	2021 - Stand has scattered multi stem red maple, with a few aspen clones. Timber quality is poor. A few white pine to the north end of stand. 2006 - Stand Thinned - Wood Road Mix 61-002-2004																																																						
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<b>84</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	7.4	76	1-50	N/A	2021 - Past treatment shows stand was roller chopped in 2018 and was going to be planted with 93. Stand was never trenched or planted do to size of residual trees that roller chopper would not have had an affect on them. Stand is poorly stocked at this time.																																													
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<b>85</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Well	9.0	28	Immature	N/A	2021 - Stand is in transition stage from pole to sapling, but most trees are still in sapling stage. Stand has a decent amount of undesirable trees at this time. Wait another 10 years and see if maple and cherry start outcompeting the ironwood.																																													
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<b>88</b>	42110 - Planted Red Pine	Poletimber Well	9.6	38	171-200	N/A	2001 - Stand has never been third row thinned. Stand canopy is closed at this time. Stand is ready to be third row thinned at this time. 1984 - FTP Completed for Red Pine Planting.																																													
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<b>89</b>	310 - Herbaceous Openland	Nonstocked	2.2				2021 - Abandoned well site, plugged in 2003.																																													
<b>90</b>	4110 - Sugar Maple Association	Sawtimber Well	21.7	98	81-110	N/A	2021 - Current Basal area of stand is around 95. Stand has some rolling terrain. Canopy is still wide open and has room to grow at this time. Stand has some beech and ironwood in its understory, not much for desirable species at this time. Hold stand till it reaches average basal area of greater than 130 then consider thinning stand again. 2007 - Stand Thinned - Davis Road Hardwoods (61-099-04) Real nice quality logs, thinned in 2007. Lots of blackberry brush. More pole timber in the western of the stand. High % of veneer and #1 logs.																																													
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<b>91</b>	4130 - Aspen	Poletimber Well	4.0	27	1-50	N/A	12/16/2021 - Stand is converting to pole size at this time. Stand has a greater percentage of poles then sapling at this time. 1995 - Stand Clearcut - Wood Road Aspen (61-039-94)																																													
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<b>92</b>	6120 - Lowland Cedar	Poletimber Medium	5.5	85	Unspecified	N/A	2021 - Stand is part of Rainbow lake wetland area transitioning to upland area.																																													
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93	3102 - Grass	Nonstocked	4.5			4211 - Planted Red Pine	2021 - Stand is planted red pine 2019 - Stand planted , regen survey shows 637 TPA (23%) mortality from initial stocking and 100% FTG. Trenches are still open. This is an old well site that is being rehabbed. 2018 - Stand was roller chopped and trenched 2011 - Old well pad site, they were plugged in 2010.																																													
96	330 - Low-Density Trees	Nonstocked	5.1				2021 - Stand has gas line running through it. Stand has scattered black cherry. Northwest part of stand has a small aspen clone established with a good amount of aspen saplings in it.																																													
97	122 - Road/Parking Lot	Nonstocked	10.5			No	County Road																																													
99	4130 - Aspen	Sapling Well	9.7	27	Immature	N/A	2021 - Stand is in transition stage between Sapling and pole. Stand Should be pole stand next YOE 2011 - Thick regeneration 15-20' tall.																																													
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101	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	7.3	88	1-50	N/A	2021 - Stand has a lot of clumpy red maple. Stand does not have any crop trees.																																													
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102	310 - Herbaceous Openland	Nonstocked	3.0				Gas Line																																													
103	4130 - Aspen	Sawtimber Well	5.1	56	51-80	N/A	12/16/21 - Stand has two small wetlands in it and is surrounded by pipelines and powerlines. Stand is ready to be harvested at this time.																																													
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<b>105</b>	42201 - Natural White Pine, Mixed Deciduous	Sapling Poor	10.4	11	Immature	N/A	2021 - Stand is transitioning from non-forested to forested at this time. Stand has a lot of white pine seeded in at this time.																																																						
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<b>110</b>	42110 - Planted Red Pine	Poletimber Well	12.3	38	171-200	N/A	2021 - Stand has never been Third Row Thinned. Stand canopy is very tight, stand is ready to be third row thinned. 1984 - FTP Completed for Red Pine Planting.																																																						
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<b>111</b>	4130 - Aspen	Sawtimber Well	48.7	48	81-110	N/A	2021 - Stand is a high quality Aspen Stand with some hardwood species in understory. East end of stand starts transitioning to hardwoods more than aspen.																																																						
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<b>112</b>	6112 - Lowland Aspen	Sawtimber Well	10.5	48	81-110	N/A	2021 - Stand is very similar to stand 111 with very nice aspen scattered throughout the stand. This stand has cedar, and balsam fire in understory, with some white pine. Stand dips in elevation a hair and does have some standing water in at this time. Should be able to harvest during a frozen winter or dry summer with no problems.																																																						
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<b>113</b>	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	8.6	53	1-50	N/A	2021 - Stand is made up of mostly poor quality white pine. Stand does have some mixed deciduous trees species in it.																																																						
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<b>114</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	1.8	27	Immature	N/A	2021 - Stand is dominated by beech at this time. 1995 - Stand Clearcut - Wood Road Aspen (61-039-94)																																																						
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<b>116</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	134.0	89	81-110	N/A	2021 - Canopy has a lot of room to grow at this time. Regeneration is undesirable at this times with a few pockets of aspen were stand was thinned harder. Stand also has an area designated to WRP for hardwood regeneration. Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039). This area was changed to stand 7. 2011 - Stand is pretty poor quality, lots of multi-stem stuff and defect. West half of stand was thinned in 07 and the eastern portion was cut in 2011. 2010 - Rest of Stand Thinned Rainbow Lake Revisited (61-055-09) 2008 - Stand Thinned - Rainbow Lake Hardwoods (61-004-04)																																															
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<b>118</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.9	48	1-50	N/A	2021 - Stand is converting from sapling to pole stand, with the majority of trees becoming pole at this time. Trees not big enough to get decent Basal area at this time.																																															
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<b>120</b>	3204 - Mast Producing Shrub	Nonstocked	2.1		Unspecified	No	2021 - Stand is an opening with trees seedling in on edges.																																															
<b>121</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	6.8	27	Immature	N/A	2021 - Stand has good potential with a lot of desirable species growing at this time. Should transition to pole stand next year of entry. 1995 - Stand Clearcut - Wood Road Aspen (61-039-94)																																															
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<b>122</b>	621 - Floating Aquatic	Nonstocked	11.9		Unspecified	No	2021 - Peters Lake and Davis Lake. Wetland bog connecting the two lakes. Has some cedar saplings growing in the higher portions of wetland																																															
<b>124</b>	4130 - Aspen	Sapling Well	23.1	27	Immature	N/A	2021 - Stand is in-between sapling and pole stage at this time. Higher Percentage of the trees being sapling at this time. 1995 - Stand Clearcut - Wood Road Aspen (61-039-94)																																															
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<b>125</b>	500 - Water	Nonstocked	3.0			No	2021 - Davis Lake																																															





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<b>126</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.3	84	51-80	N/A	2021 - Used last years data. Wetland not frozen over at time of inventory, could not get to stand do to water.																																																			
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<b>127</b>	4110 - Sugar Maple Association	Sawtimber Well	24.1	98	111-140	N/A	2021 - High quality sugar maple throughout stand. One of the nicest stands in entire compartment. Basal area is around 116 at this time. Hilly Terrain. 2011 - Stand has a lot of pole timber on the west side and then turns into a real high quality log stand in the eastern part. Lots of raspberry. Stand includes a bluff that overlooks the lake to the north. Stand thinned in 2007.																																																			
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<b>128</b>	6124 - Lowland Spruce-Fir	Poletimber Poor	1.9	75		N/A	2021 - Transition stand between wetland and upland. To wet to harvest any timber.																																																			
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<b>129</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	2.1	80	1-50	N/A	2021 - Stand is real wet, lots of mortality in the black spruce, high water table.																																																			
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<b>130</b>	310 - Herbaceous Openland	Nonstocked	2.9		Unspecified		2021 - Pipeline ROW																																																			
<b>133</b>	310 - Herbaceous Openland	Nonstocked	3.5			Managed Opening	A few trees encroaching within stand on edges.																																																			



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<b>136</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	54.0	86	111-140	N/A	2021 - Stand currently has an average basal area of 125 square feet at this time. Basal areas ranged from 60 to 200. Stand has a lot of multi stem trees. Quality gets better the farther east you go in stand. Stand has a wall of ironwood beech in canopy. There are several pockets of sugar maple regeneration scattered throughout the stand. 2011 - Real clumpy and poor quality timber. Good amounts of sugar maple regen!! Stand was last thinned in 98. Stocking is variable some pockets could be thinned other BA is pretty low. Extra BA's 80, 110, 70, 100, 1997 - Stand Thinned - Davis Road Hardwoods (61-038-94)				
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Black Cherry		10	Log/Pole	10							
Beech		10	Log/Pole	10							
<b>137</b>	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	11.0	89	51-80	N/A	2021 - Poor quality hardwood stand. A few aspen clones scattered throughout stand. Stand had lots of ironwood in understory.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		20	Log/Pole	12	89	Ironwood		High	>20 feet	Sapling	
Red Maple		40	Log/Pole	10	89	Sugar Maple		Trace	Variable	Sapling	
Quaking Aspen		20	Pole	8		Red Maple		Low	Variable	Sapling	
Basswood		20	Log	14							
<b>138</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	11.1	43	1-50	N/A	2021 - Stand is an opening filling in. A few decent aspen clones are established within stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		10	XLog/Log/Pole	18		Bigtooth Aspen		Low	Variable	Sapling	
Sugar Maple		5	Pole	6		Cherry (spp.)		Low	Variable	Sapling	
Red Maple		5	Pole	6		White Pine		Low	5 - 10 feet	Sapling	
Quaking Aspen		20	Pole	6							
Black Cherry		60	Pole	6	43						
<b>139</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	8.2	89	1-50	N/A	2021- Aspen is only desirable species in understory. Lots of ironwood and some beech. Canopy is pretty open not worth going after remaining timber. 2005 - Stand thinned last year of entry 'North Wheeler Lk. Hwds' in 2005. All aspen was removed so there are quite a few pockets of A3.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		20	Log/Pole	12		Aspen (spp.)		Medium	10 - 20 feet	Sapling	
Red Maple		45	Log/Pole	10	89	Ironwood		Medium	5 - 10 feet	Sapling	
Sugar Maple		35	Log/Pole	10	89	Beech		Medium	5 - 10 feet	Sapling	
						Red Maple		Medium	10 - 20 feet	Sapling	
<b>140</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	10.1	88	51-80	N/A	2021 - Stand is on bluff above the Rapid River. Stand is poor quality with lots of multi - stem trees. Understory is filling in with desirable trees at this time.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		5	Log/Pole	10		Sugar Maple		Medium	Variable	Pole	
Bigtooth Aspen		5	Log/Pole	10		Red Maple		High	Variable	Pole	
Red Maple		40	Log/Pole	12							
Sugar Maple		50	Log/Pole	13	88						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
<b>141</b>	4199 - Other Mixed Upland Deciduous	Sapling Poor	4.0	12	Immature	N/A	2021 - Stand is very steep. Lots of open areas in stand. Stand is seedling in with hardwoods species.																														
<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>Sugar Maple</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>35</td> <td>Sapling</td> <td>1</td> <td>12</td> </tr> <tr> <td>Beech</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>35</td> <td>Sapling</td> <td>1</td> <td>12</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	10	Sapling	1		Red Maple	35	Sapling	1	12	Beech	10	Sapling	1		Bigtooth Aspen	35	Sapling	1	12	Balsam Fir	10	Sapling	3	
Canopy Species	% Cover	Size Class	DBH	Age																																	
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<b>142</b>	500 - Water	Nonstocked	21.1		Unspecified	No	2021 - Rapid River Runs through the stand. Stand does have beaver activity in it. Stand has lots of dead trees from past beaver flooding. There are live balsam fir in stand currently.																														