



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52168

Entry Year 2021

Acreage: 2,839

County Cheboygan

Management Area: Cheboygan Lake Plain

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**Revision Date:** 2019-07-24

**Stand Examiner:** John Scheele

**Legal Description:**

T35N - R02W Sections 19, 20, 21, 28, 29, 30, 31, and 32.

**Identified Planning Goals:**

To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

**Soil and topography:**

Dominant soil types are excessively drained Rubicon and Grayling Sands. These very dry, sandy soils formed on outwash plains. The compartment is very flat with limited changes in topography.

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

State ownership is fairly contiguous with surrounding private property being broken into small private parcels. Enbridge Energy Company and Aurora Gas Company both have pipelines within the compartment. The compartment is prone to illegal trash dumping because of its proximity to Indian River.

The Lakehead Pipe line travels through this compartment.

**Unique Natural Features:**

A Bald Eagle's nest and Hill's Thistle has been documented in the compartment.

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

No known occurrences at this time.

**Special Management Designations or Considerations:**

None.

**Watershed and Fisheries Considerations:**

No comments at this time.

**Wildlife Habitat Considerations:**

Treatments in this compartment will maintain age class diversity in aspen while creating early successional habitat benefiting white-tailed deer, Ruffed grouse, and American Woodcock. Some oak clumps and/or large crowned oak will be left where appropriate for hard mast. Openings are prescribed to be maintained and supplemented with hard and soft mast plantings benefiting white-tailed deer, grouse, wild turkey, and woodcock.

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

The nearest active sand/gravel pit is located five miles away, but there may be some sand & gravel potential within the compartment. Active limestone/dolostone quarries (which also likely produce some sand & gravel) are located three miles to the east, where bedrock is at or near the surface. Bedrock limestone is much deeper in the area of the compartment, so limestone potential is probably low. The compartment is several miles from the nearest active oil and gas production. The only hydrocarbon exploration that has occurred in the area was the Kendall 1-33 (and State Koehler & Kendall 1-27 HD1) exploratory Collingwood well, which was drilled by Encana in 2010. The State Koehler & Kendall 1-27 HD1 produced minor quantities of oil in 2010-2011 and was eventually plugged and abandoned by Marathon in 2015. There is no active mineral leasing in the vicinity and potential for future oil & gas development is considered low at this time. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Access is good throughout the compartment.

**Survey Needs:**

A survey request has been submitted for the SW1/4 of Section 29.

**Recreational Facilities and Opportunities:**

The Michigan Cross County Cycle Trail is located in this compartment as well a boating access site on Cochran Lake in Section 21. An unnamed cycle trail was observed in Sections 20, 21, 28, and 29.

**Fire Protection:**

There are moderate wildfire concerns based on the soil types and pine dominated cover types.

**Additional Compartment Information:****The following reports from the Inventory are attached:**

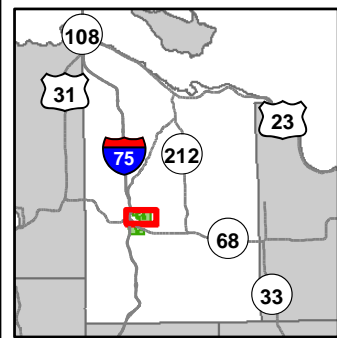
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**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**

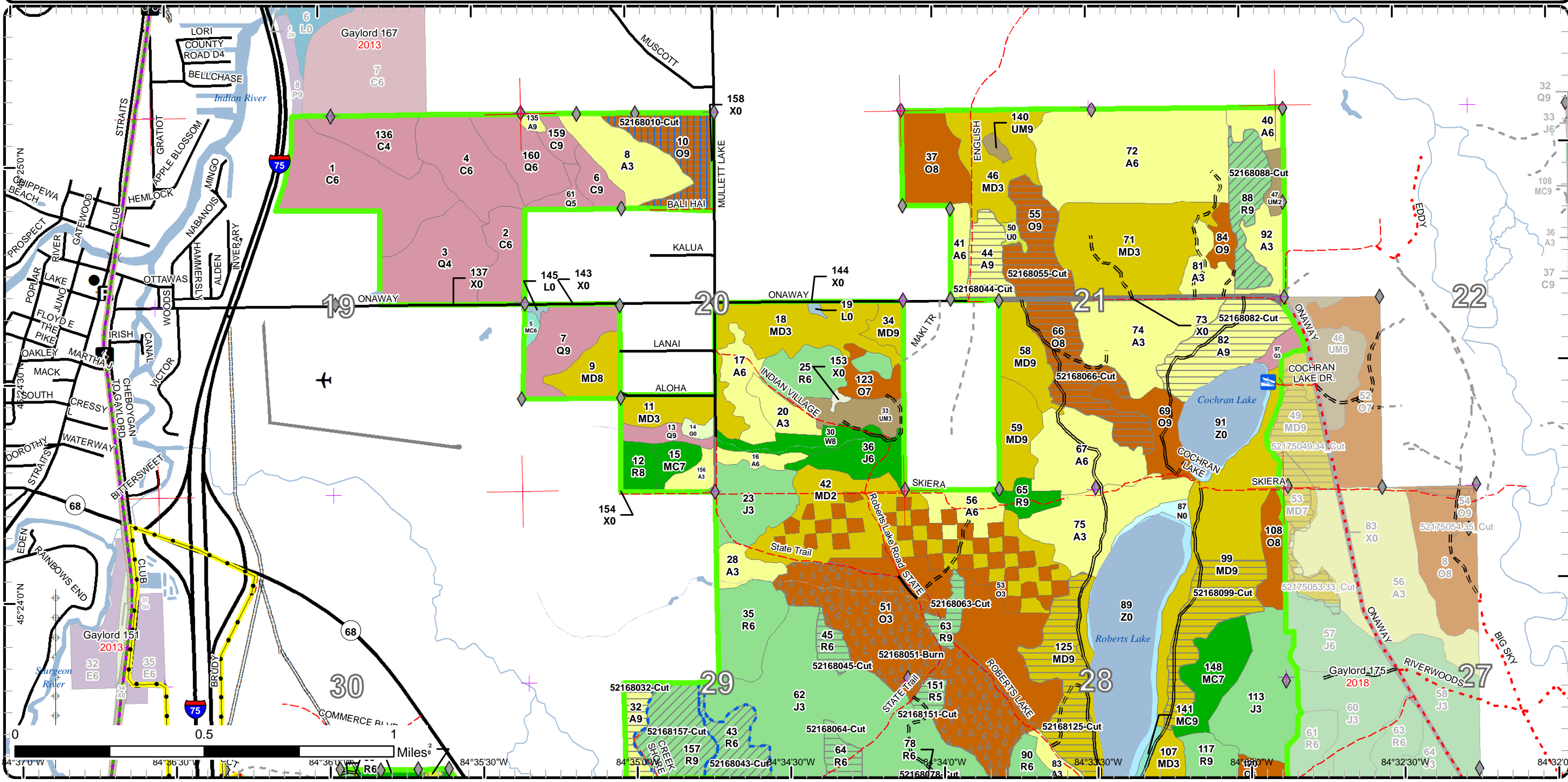


# Cover Type & Treatments Map

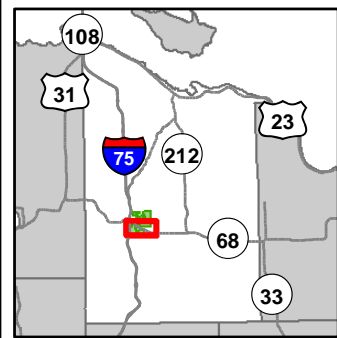


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 T35N, R02W, Sec. 19-22, 27-32  
 County: Cheboygan  
 Unit: Gaylord  
 Mgmt Area: Cheboygan Lake Plain  
 YOE: 2021  
 Acres: 2,839 GIS Calculated  
 Examiner: John Scheele  
 Map Revised: 10/8/2019  
 Map Phase: Post-Review

- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
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- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Prescribed Burn
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated
- Lakes

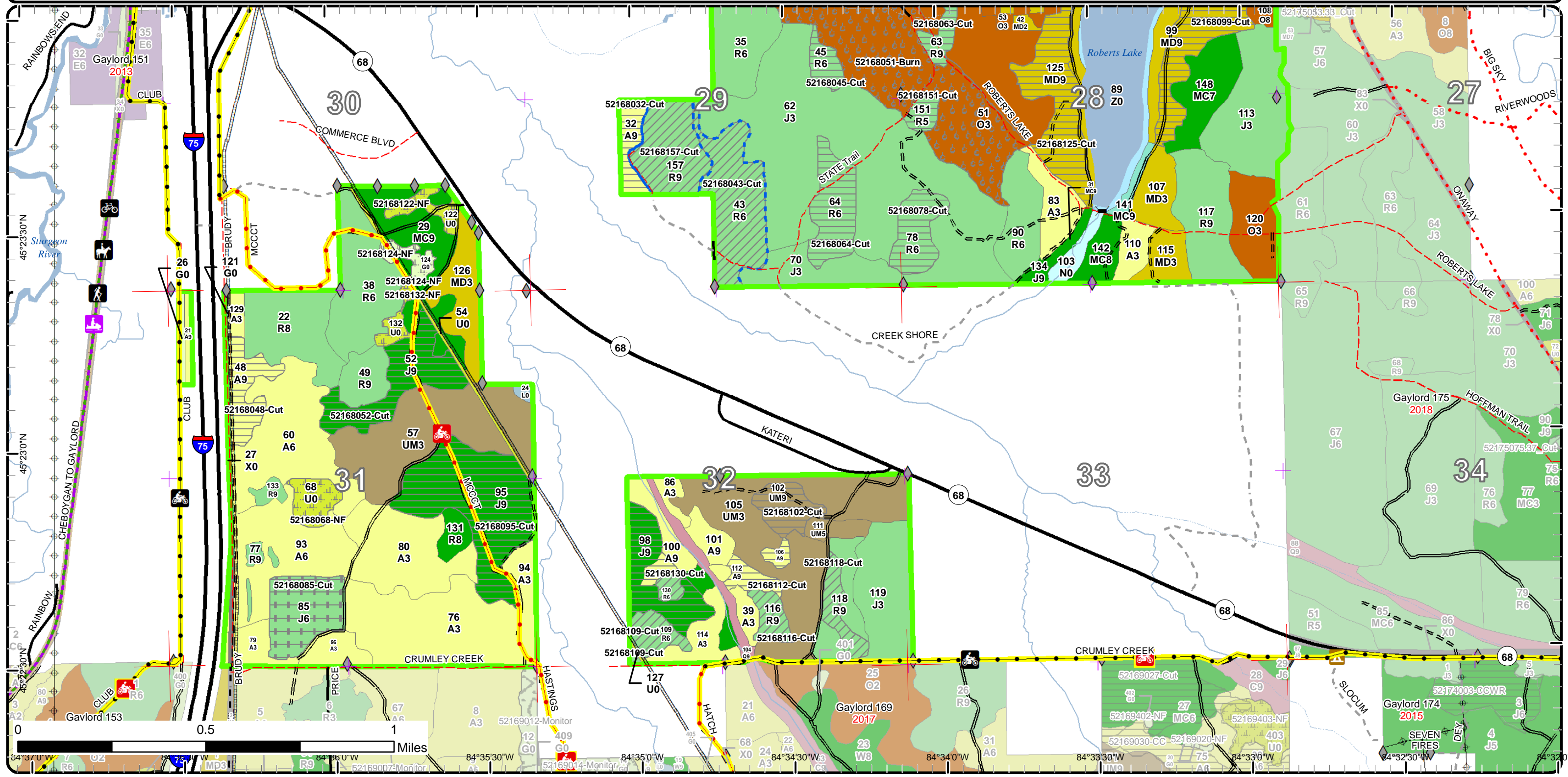


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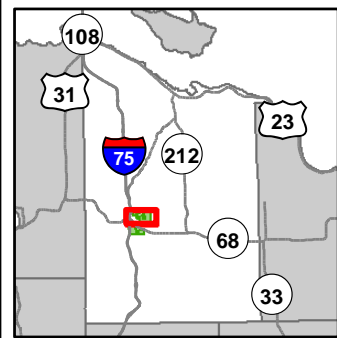
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|--|--|---|---|---|
| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>— Remonumented Section Corners</li> <li>● Survey Grade Corners</li> <li>◆ Field Grade Corners</li> <li>--- Counties</li> <li>== DNR - Secondary Forest Road</li> <li>== DNR - Forest Access Route</li> <li>== Federal / State Highway</li> <li>== Federal / State / County - Paved Road</li> <li>--- Federal / State - Dirt / Gravel Road</li> <li>--- County - Gravel Road</li> <li>--- County - Dirt Road (Seasonal)</li> <li>--- Private - Dirt / Gravel Road</li> <li>— Hiking Trails</li> </ul> | <ul style="list-style-type: none"> <li>— Bike Trails</li> <li>— Horse Trails</li> <li>— Motorcycle Trails (SOS License)</li> <li>— Motorcycle Trails (DNR License)</li> <li>— MCCCT Trails</li> <li>— Snowmobile Trails</li> <li>— Designated Hiking Trails</li> <li>— Designated Bicycle Trails</li> <li>● ORV License</li> <li>● ORV License &amp; Trail Permit</li> <li>— Designated Snowmobile Trails</li> </ul> | <ul style="list-style-type: none"> <li>— Michigan Cross Country Cycle Trail (MCCCT)</li> <li>— Designated RailTrail</li> <li>— Bridges</li> <li>— Culvert</li> <li>— Campground</li> <li>— Intermittent Stream</li> <li>— Lake/Pond</li> <li>— Perennial River</li> <li>— Lakes and Rivers All</li> <li>— Pipeline</li> <li>— Powerline</li> <li>— Compartment Boundary</li> <li>— Treatments with Site Conditions</li> <li>— Other Treatment - See Comments</li> </ul> | <ul style="list-style-type: none"> <li>— Clearcut (w/Reserves)</li> <li>— Harvest, Overstory Removal</li> <li>— Prescribed Burn</li> <li>— Thinning (Crown, Low, Systematic)</li> <li>— 412 - Oak Types</li> <li>— 413 - Aspen</li> <li>— 419 - Mixed Upland Deciduous</li> <li>— 421 - Planted Pines</li> <li>— 422 - Natural Pines</li> <li>— 429 - Mixed Upland Conifers</li> <li>— 430 - Upland Mixed Forest</li> <li>— 612 - Lowland Coniferous Forest</li> <li>— 122 - Roads/Parking Lot</li> <li>— 310 - Herbaceous Openland</li> <li>— 330 - Low Density Trees</li> </ul> | <ul style="list-style-type: none"> <li>— 500 - Water</li> <li>— 622 - Lowland Shrub</li> <li>— 623 - Emergent Wetland</li> <li>— Lakes</li> </ul> |
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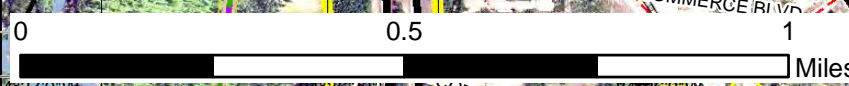
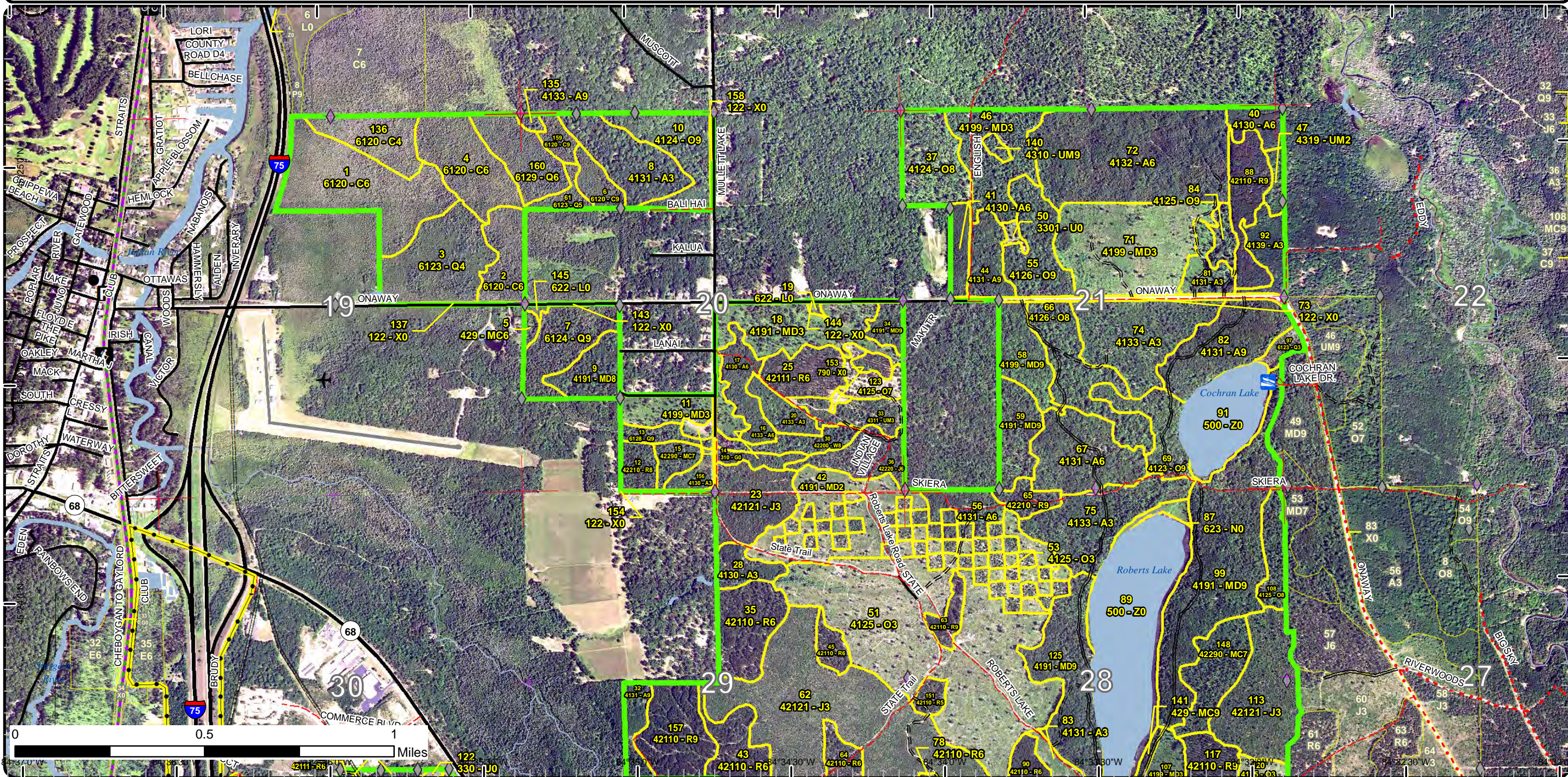


# Stand Boundary Map

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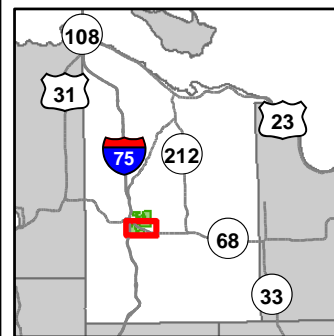
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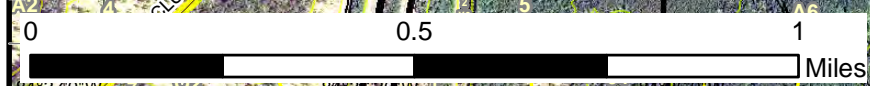
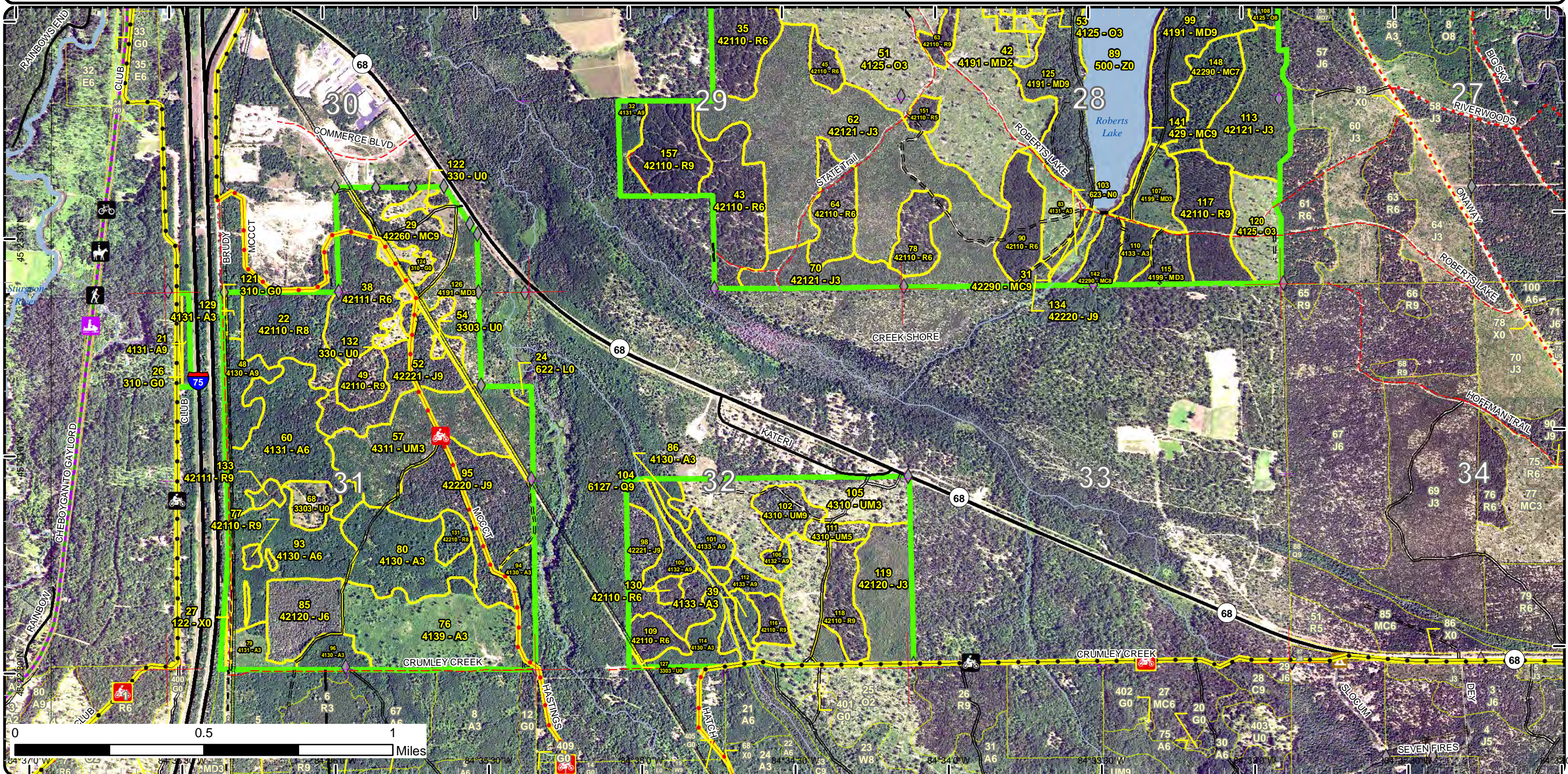
Map coordinates: 43°34'00" N, 84°34'30" W

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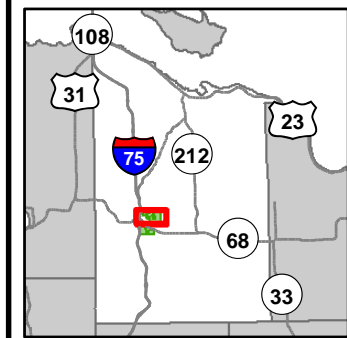
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Map coordinates and grid lines are visible along the bottom edge, including section numbers and township/range information.

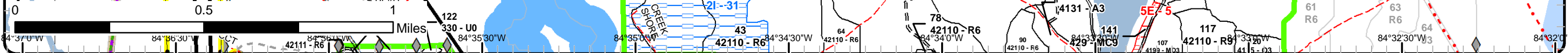
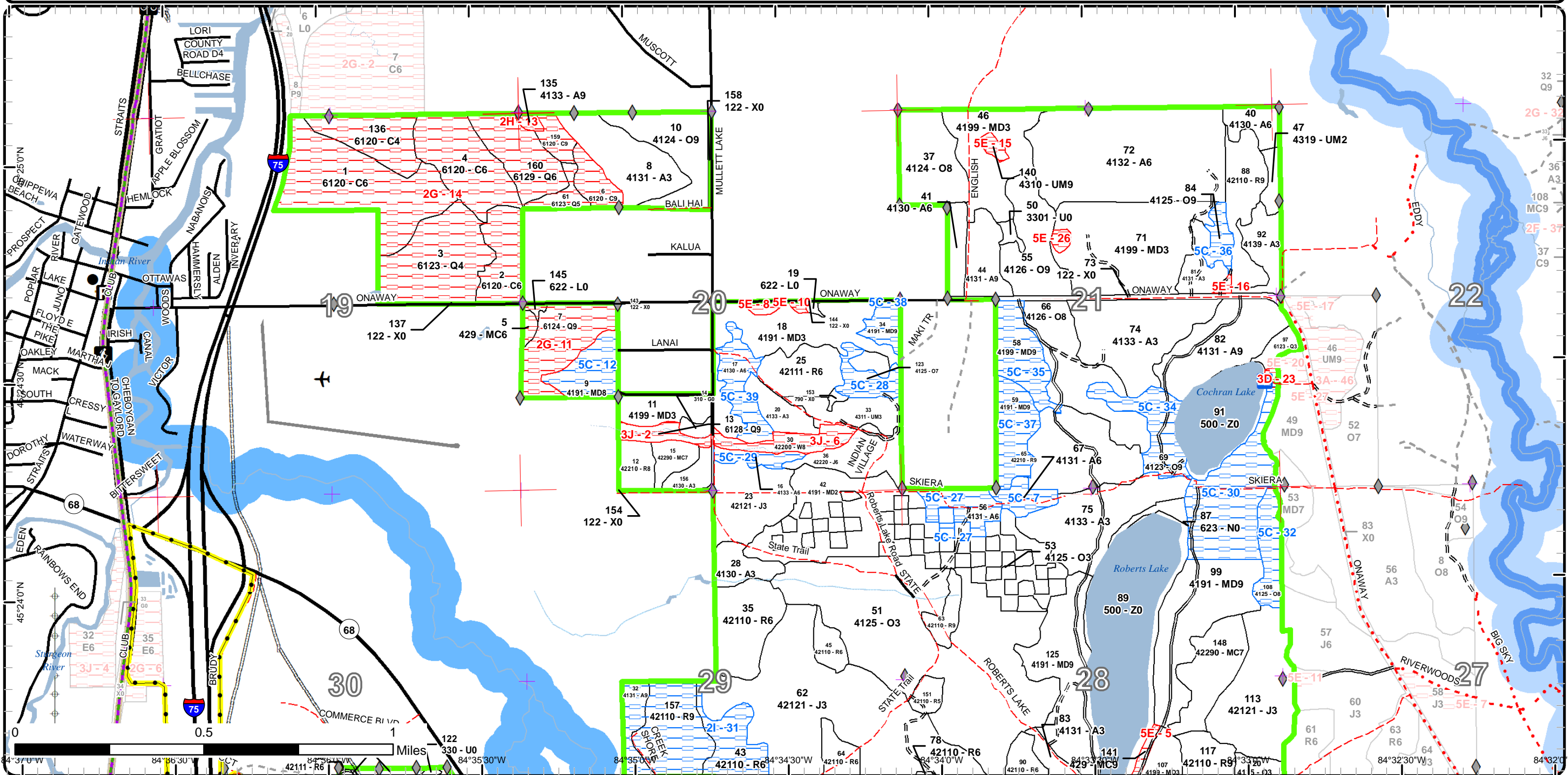
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- Compartment Boundary
- Available w/ Constraints
- Unavailable

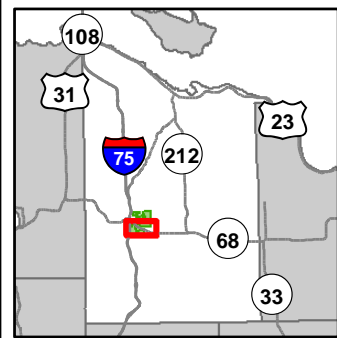
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Rail-Trail Corridor



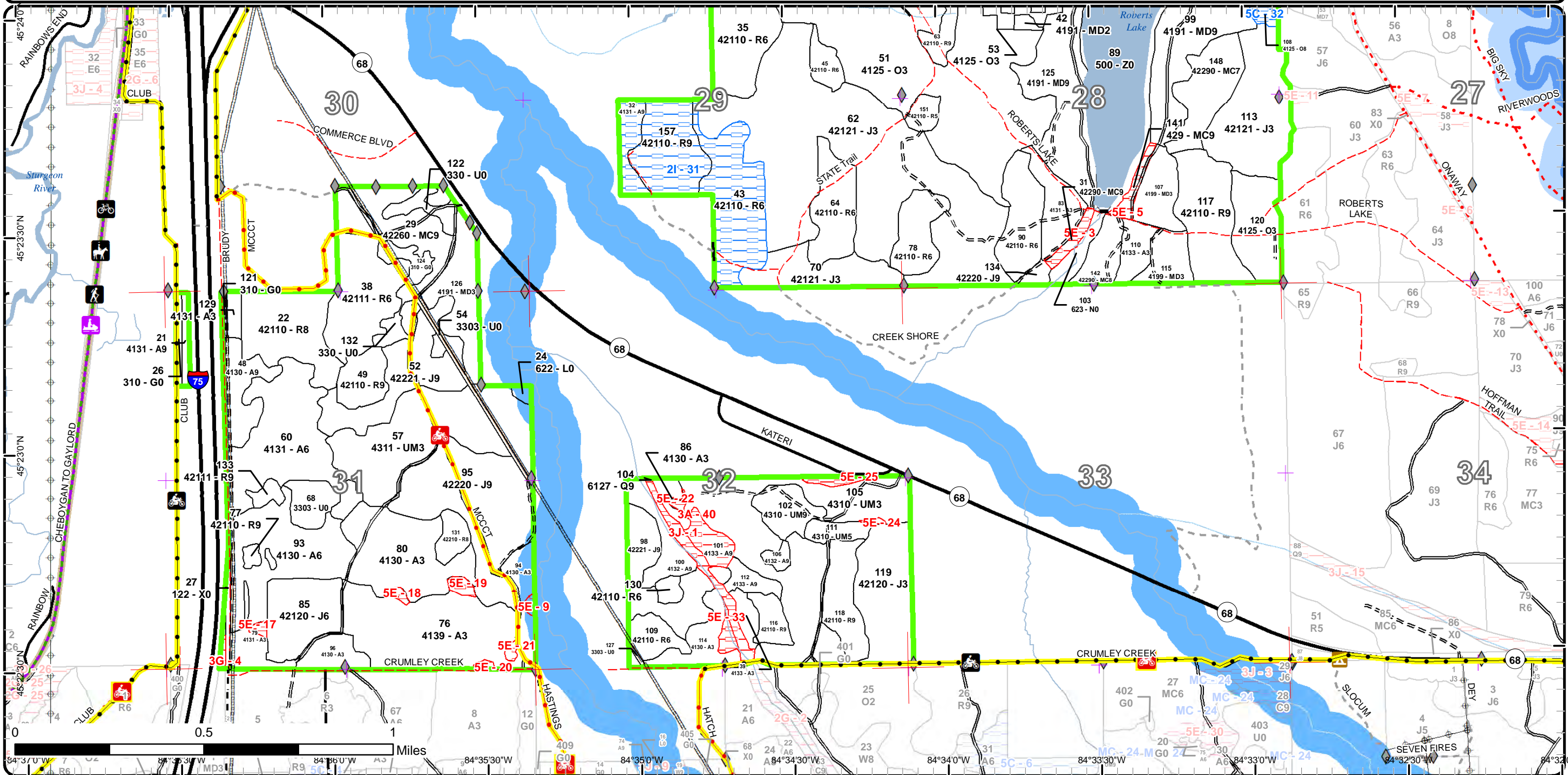


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- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- 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	90	136	263	0	60	66	36	7	0	2	0	0	0	0	0	0	0	660
Bare/Sparsely Vegetated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	63	0	13	0	0	0	0	0	51	127
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Jack Pine	0	0	225	45	0	0	39	108	0	0	0	0	0	0	0	0	0	0	417
Low-Density Trees	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Conifers	0	0	0	4	0	36	0	0	0	54	8	0	0	0	0	0	0	0	102
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Marsh	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	176	51	10	0	0	0	0	0	6	17	149	0	0	0	0	0	0	408
Natural Mixed Pines	0	0	0	0	0	0	0	60	0	10	0	0	0	0	0	0	0	0	70
Oak	0	155	34	0	0	0	0	0	0	0	81	42	0	0	0	0	0	25	337
Red Pine	0	0	0	0	0	0	43	299	13	0	7	0	0	0	0	0	0	0	361
Upland Conifers	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	70	70	5	6	0	0	0	0	0	13	0	0	0	0	0	0	0	164
Urban	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Water	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
White Pine	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
<b>Total</b>	<b>177</b>	<b>491</b>	<b>516</b>	<b>327</b>	<b>6</b>	<b>96</b>	<b>150</b>	<b>507</b>	<b>20</b>	<b>133</b>	<b>138</b>	<b>204</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>76</b>	<b>2839</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 168

Total Compartment Acres: 2,839

Commercial Harvest - 444  
 Harvests with Site Condition - 70  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	76	0	0	0	0	0	0	0	0	76
Jack Pine	104	0	0	0	0	23	0	0	0	127
Mixed Upland Deciduous	63	0	0	0	0	0	0	0	0	63
Oak	54	0	0	24	0	0	0	0	0	78
Red Pine	51	0	0	0	0	108	0	0	0	159
Upland Mixed Forest	11	0	0	0	0	0	0	0	0	11
<b>Total</b>	<b>360</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>108</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>514</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	514	0	0	0	88	0	0	24	0	626
Next Step	0	0	0	0	105	0	390	0	0	495
<b>Total</b>	<b>514</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>194</b>	<b>0</b>	<b>390</b>	<b>24</b>	<b>0</b>	<b>1121</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	Approval Status
10	52168010-Cut	23.7	4124 - Red with White Oak	Sawtimber Well	108	81-110	Harvest	Seed Tree with Retention	4121 - Oak, Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Mark individual clumps of 1 to 3 oak trees scattered throughout the stand. Target a residual BA of 10 to 30.

Specs: Include some pine species within the clumps as well. Protect the established oak regeneration with the appropriate sale specifications. Also need the oak wilt specification. Adjust the west treatment boundary into the adjacent aspen stand where need.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes a moderate to well stock mix of oak and deciduous species.

Regen:

Other Allowing for higher residual BA and larger DBH trees for aesthetic reason due to the many private residence surrounding treatment area.

Comment:

Proposed Start Date: 10/1 /2020

32	52168032-Cut	8.9	4131 - Aspen, Oak	Sawtimber Well	50	Unspec ified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Harvest stand to regenerate. Mark 1 clump of 2 to 3 oak trees per clump per acre to leave. Do not cut the underrepresented Red Pine for stand

Specs: structure diversity. Put retention in small ravine in center of stand and/or along steep slope in southwest corner.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes a well stocked mix of aspen and deciduous species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

43	52168043-Cut	35.4	42110 - Planted Red Pine	Poletimber Well	60	171- 200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Remove every third row. Do not destroy old motorcycle trail within the stand.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other May want use sale specification 5.2.39 - Trail/route protection for the unnamed trail that is marked with blue ribbon.

Comment:

Proposed Start Date: 10/1 /2020

44	52168044-Cut	13.2	4131 - Aspen, Oak	Sawtimber Well	58	Unspec ified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Leave all White Oak. Also mark 1 clump of 2 to 3 Red Oaks and Red Pine per clump every 3 acres to leave for

Specs: stand structure diversity and mast production. No more than 20 sq. ft. of residual BA.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes a well stocked mix of aspen and deciduous species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
45	52168045-Cut	6.0	42110 - Planted Red Pine	Poletimber Well	60	81-110	Harvest	Clearcut	320 - Upland Shrub		Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to convert to a low density forested stand. Final management objective is to convert stand to managed wildlife opening.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable Acceptable regeneration includes a low stocking mix of trees and shrubs.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

48	52168048-Cut	14.3	4130 - Aspen	Sawtimber Well	61	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Leave oak and Red Pine trees for stand structure diversity. Leave no more than 20 sq. ft. of residual trees per

Specs: acre. Leave west side of pipeline for retention.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes a well stocked stand of aspen and deciduous species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

51	52168051-Burn	88.4	4125 - Black, N. Pin Oak	Sapling Well	5	Immature	Burn	Opening	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Prescribe burn every 3-5 years for barons management.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

52	52168052-Cut	26.3	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	66	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Leave 1 clump of 3 to 5 trees per 2 acres consisting of Red and White oak trees. Also leave any Red Pine which is

Specs: mostly located next to Stand 49 for stand structure diversity. Total residual BA should not exceed 20 sq. ft./acre. Adjust treatment boundary around Stands 49 and 29 to cut the mature Jack Pine. Protect existing oak regeneration with sale specifications. Put stand retention pocket in the southwest corner. Sign and protect the recreation trail during harvest.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes a moderate to well stocked mix of oak, aspen and pine species.

Regen:

Other

Comment: Protect pipeline when setting up sale. Along the MCCCT, protect orange ORV markers, do not run equipment down trail, and maintain a 20 foot debris-free zone along trail.

Proposed Start Date: 10/1 /2020



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	Approval Status
55	52168055-Cut	23.9	4126 - White, Black, N. Pin Oak	Sawtimber Well	96	51-80	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Locate stand retention pockets to include some Red Pine trees. Also leave 1 best formed, large DBH, oak tree  
Specs: per 2 to 3 acres for mast production and aesthetic value. Use oak wilt sale specification.

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

Acceptable acceptable regeneration includes a moderate to well stocked mix of oak, deciduous, and pine species.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

63	52168063-Cut	6.4	42110 - Planted Red Pine	Sawtimber Well	60	111- 140	Harvest	Clearcut	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to convert to a low density forested stand. Final management objective is to convert stand to managed wildlife opening.  
Specs:

Next Step Burn, Opening  
Treatments:

Acceptable Acceptable regeneration includes a low stocking mix of trees and shrubs.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

64	52168064-Cut	19.8	42110 - Planted Red Pine	Poletimber Well	60	111- 140	Harvest	Clearcut with Retention	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to convert to a low density forested stand. Put within-stand retention of 3 to 10% in center of the stand. Final management  
Specs: objective is to convert stand to a wildlife opening.

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

Acceptable Acceptable regeneration includes a low stocking of trees and shrubs.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

66	52168066-Cut	30.3	4126 - White, Black, N. Pin Oak	Sawtimber Medium	96	81-110	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Leave Red Pine for stand structure diversity. Protect established regeneration in sale specifications.  
Specs:

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

Acceptable Acceptable regeneration includes a moderate to well stocked mix of oak and deciduous species.  
Regen:

Other A historical eagle's nest was documented southeast of the stand but currently has not been active for a number of years. Check nest for activity  
Comment: when setting up sale. Take appropriate action to protect nest if it is active.

Proposed Start Date: 10/1 /2020



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	Approval Status
68	52168068-NF	8.7	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

78	52168078-Cut	14.6	42110 - Planted Red Pine	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to convert to a low density forested stand. Put within-stand retention of 3 to 10% in center of the stand. Final management

Specs: objective is to convert stand to a wildlife opening.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Acceptable regeneration includes a low stocking mix of trees and shrubs.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

82	52168082-Cut	31.7	4131 - Aspen, Oak	Sawtimber Well	54	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Cut everything except White Oak, White Pine over 8 inches DBH, and mark some Red Oak to leave. Leave no

Specs: more than 20 sq. ft. of residual BA per acre. Leave 100 foot retention area along the waters edge per fisheries request.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Acceptable regeneration includes a well stocked mix of aspen and deciduous species.

Regen:

Other

A historical eagle's nest was documented south of the stand but currently has not been active for a number of years. Check nest for activity

Comment: when setting up sale. Take appropriate action to protect nest if it is active.

Proposed Start Date: 10/1 /2020

85	52168085-Cut	23.3	42120 - Planted Jack Pine	Poletimber Well	58	Unspec ified	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest overstory Jack Pine and convert stand to an oak sapling cover type. Protect existing oak regeneration in sale specification.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Acceptable regeneration includes moderate to well stocked oak, deciduous, and pine species. Any mix of oak, pine and deciduous species will be acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
88	52168088-Cut	19.9	42110 - Planted Red Pine	Sawtimber Well	60	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Remove every third row. May want to exclude the low BA areas from the treatment area which are along the east and south edges of the stand.

Specs: Adjust treatment boundaries where necessary.

Next Step

Treatments:

Acceptable

Regen:

Other May want use sale specification 5.2.39 - Trail/route protection for the unnamed trail that is marked with blue ribbon.

Comment:

Proposed Start Date: 10/1 /2020

95	52168095-Cut	54.3	42220 - Natural Jack Pine	Sawtimber Well	66	Unspecified	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Leave all White Oak and some Red Pine to leave for mast and stand structure diversity, not to exceed a total of 20

Specs: sq. ft./acre. Harvest during snow off conditions to encourages Jack Pine species. MO will be pine/aspens.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen: Acceptable regeneration includes a well stocked stand of Jack Pine, aspen and deciduous species in any combination of canopy densities.

Other

Protect pipeline when setting up sale. Along the MCCCT, protect orange ORV markers, do not run equipment down trail, and maintain a 20 foot

Comment: debris-free zone along trail.

Proposed Start Date: 10/1 /2020

98	52168098-Cut	23.1	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	64	Unspecified	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Leave Red Pine stand structure diversity. Cut during snow off conditions. Leave the area along the river as stand

Specs: retention.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen: Acceptable regeneration includes a well stocked stand of Jack Pine, aspen and deciduous species in any combination of canopy densities.

Other

Aspen dominate regeneration is acceptable.

Comment:

Proposed Start Date: 10/1 /2020

99	52168099-Cut	30.3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	102	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest to regenerate. Maintain a minimum of 100 feet away from water's edge per fisheries request and for recreational/scenic values. Decision

Specs: was made at pre-review to leave the area between Roberts Lake and the two-track as an uncut buffer and for stand retention. Mark individual clumps of 2 to 3 oaks including x-sized White and Red Pines to leave along the east side of the two-track road across from the existing camping areas.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen: Acceptable regeneration includes a well stocked mix of aspen and deciduous species.

Other

A historical eagle's nest was documented northwest of the stand but currently has not been active for a number of years. Check nest for activity

Comment: when setting up sale. Take appropriate action to protect nest if it is active.

Proposed Start Date: 10/1 /2020





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	Approval Status
102	52168102-Cut	11.3	4310 - Pine, Oak Mix	Sawtimber Well	93	51-80	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Leave any White and Red Pine for stand structure diversity which represents less than 4 percent of the canopy.

Specs: No other within-stand retention due to small stand size.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes a moderate to well stocked mix of oak and Jack Pine species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

106	52168106-Cut	2.4	4132 - Aspen, Jack Pine	Sawtimber Well	67	Unspec ified	Harvest	Clearcut	4122 - Oak, Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Leave and White Pine or White Oak if present. No other within-stand retention due to small stand size.

Specs:

Next Step ; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes a moderate to well stocked mix of oak, pine, and aspen species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

109	52168109-Cut	8.7	42110 - Planted Red Pine	Poletimber Well	60	141- 170	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Remove every third row. Also cut all Jack Pine, aspen, and oak. Also treat the southwest corner of the stand on the west side of the pipeline.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Use sale specification 5.1.3 - Well heads and natural gas pipelines when setting up the sale.

Comment:

Proposed Start Date: 10/1 /2020

112	52168112-Cut	5.4	4133 - Aspen, Mixed Pine	Sawtimber Well	65	Unspec ified	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Leave the larger diameter pines > 14 inch DBH for stand structure diversity. No other stand retention due to small

Specs: stand size. Maintain a 300 feet uncut buffer distance from the stream.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration includes a well stocked stand of aspen.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



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	Approval Status
116	52168116-Cut	6.7	42110 - Planted Red Pine	Sawtimber Well	58	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Remove every third row. Also remove all Jack Pine and White Pine. Recommend marking the rows to maximize residual quality. Target  
Specs: residual BA is 100 to 120.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

118	52168118-Cut	8.5	42110 - Planted Red Pine	Sawtimber Well	61	141- 170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Remove every third row. Recommend marking the rows or individual trees. Target residual BA would be 100 to 120. East treatment boundary  
Specs: line may need to be adjusted in the field to capture the more dense Red Pine areas to treat.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

122	52168122-NF	6.0	330 - Low-Density Trees	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and/or soft mast.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 4 /19/2019

124	52168124-NF	4.8	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and/or soft mast.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 4 /19/2019



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	Approval Status
125	52168125-Cut	33.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	100	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to regenerate. Leave east side of the two-rack uncut for BMPs purposes, recreation/scenic values, and per fisheries request. Use  
Specs: as with-in stand retention. Mark some additional clumps of 2 to 5 trees per clump of oak and Red Pine next to the camping sites and west of two-track where needed. Stand will regenerate to mostly aspen along the west boundary line.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration will include a well stocked mix of aspen and deciduous species.

Regen:

Other A historical eagle's nest was documented northeast of the stand but currently has not been active for a number of years. Check nest for activity  
Comment: when setting up sale. Take appropriate action to protect nest if it is active.

Proposed Start Date: 10/1 /2020

130	52168130-Cut	2.8	42110 - Planted Red Pine	Poletimber Well	60	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Remove every third row. Also remove all Jack Pine, aspen, and oak species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

132	52168132-NF	4.2	330 - Low-Density Trees	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 4 /19/2019

151	52168151-Cut	4.4	42110 - Planted Red Pine	Poletimber Medium	60	81-110	Harvest	Clearcut	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Harvest stand to convert to a low density forested stand. Final management objective is to convert stand to managed wildlife opening.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable Acceptable regeneration includes a low stocking mix of trees and shrubs.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



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	Approval Status
157	52168157-Cut	25.5	42110 - Planted Red Pine	Sawtimber Well	60	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No      Site Condition: Survey Needed**

Prescription Remove every third row. Leave the oak species. May need to mark rows for the producer. Do not destroy old motorcycle trail within the stand.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other May want use sale specification 5.2.39 - Trail/route protection for the unnamed trail that is marked with blue ribbon.

Comment:

Proposed Start Date: 10/1 /2020

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**Total Treatment  
 Acreage Proposed: 626.2**

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 168  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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### Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions									
					2I	5C	2G	2H	3A	3D	3G	3J	5E	
659	603	41	16	Aspen	9	32		2	7		1		7	
1	1	0	0	Bare/Sparsely Vegetated										
127	0	0	127	Cedar			127							
10	10	0	0	Herbaceous Openland										
417	415	0	2	Jack Pine									2	
27	27	0	0	Low-Density Trees										
103	4	0	99	Lowland Conifers			85					14		
3	2	0	1	Lowland Shrub			1							
10	10	0	0	Marsh									0	
410	313	92	5	Mixed Upland Deciduous		92				1			4	
70	67	0	3	Natural Mixed Pines									3	
336	292	44	0	Oak		44								
362	294	68	0	Red Pine	61	7								
6	0	0	6	Upland Conifers			2						4	
164	153	0	11	Upland Mixed Forest									11	
19	19	0	0	Urban							0			
107	107	0	0	Water									0	
10	0	0	10	White Pine								10		
2,840	2,316	245	280	Total Forested Acres	70	175	215	2	7	1	1	24	30	
	82%	9%	10%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 168  
Year of Entry: 2021

2	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for Stand 83.							
4	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area was left uncut when stand to the east was harvested. Area is too small to harvest now. Leave as retention for stand to the east and/or as a visual buffer to Interstate 75.							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for Stand 107. Dispersed camping along lake shore.							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<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> Would like to leave this stand for cover type diversity within the compartment.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 168  
Year of Entry: 2021

8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention for stand 18. Soil was also removed from this area in 1955.							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Isolated upland stand with very little volume surrounded by low ground.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 168  
Year of Entry: 2021

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	189	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 168  
Year of Entry: 2021

21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	3D: Recreational / Scenic values	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Boat launch.							
24	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possibly treat next YOE.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 168  
Year of Entry: 2021

28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Reevaluate regeneration next YOE.							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> It was decided at the pre-review meeting to delay treatment for this part of the stand until next YOE.							
31	Available	2I: Survey needed	70	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possibly remove overstory and convert to aspen next YOE.							
33	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand retention for Stand 98.							

Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 168  
Year of Entry: 2021

34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Leave for the next YOE.</p>							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Leave treatment for next YOE.</p>							
36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Leave treatment for next YOE.</p>							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Delay treatment for next YOE.</p>							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Delay treatment until next YOE.</p>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 168  
Year of Entry: 2021

39	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leave for next YOE.							
40	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 5/15 Treatment was dropped after pre-review site visit by planning and timber specialist. Concerns with potential beaver activity and management objective to a conifer dominated cover type.							

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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	6120 - Lowland Cedar	Poletimber Well	50.7	85	Unspecified	N/A	Very poor quality cedar that is fairly short. Wetter than the stand to the north.																																															
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2	6120 - Lowland Cedar	Poletimber Well	16.4	85	Unspecified	N/A	Predominately cedar in the center of the stand. Cedar and Black Spruce DBH range from 4 - 12 inches. Cedar is 3 sticks tall. Some of the tamarack and cedar is dead.																																															
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3	6123 - Lowland Fir	Poletimber Poor	36.1	40	Unspecified	N/A	Light ash overstory that is dead. Close to a lowland shrub classification.																																															
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4	6120 - Lowland Cedar	Poletimber Well	28.3	85	Unspecified	N/A	Stand is denser then Stand 2 to the south. Better quality trees is some areas. A few scattered log-sized (10+ DBH) cedar. Stream in center of stand flowing north with the larger DBH cedar.																																															
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5	429 - Mixed Upland Conifers	Poletimber Well	1.9	50	51-80	N/A	Open area in center of stand across from private resident.																																															
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6	6120 - Lowland Cedar	Sawtimber Well	7.9	101	Unspecified	N/A	Nice quality, 6 stick high cedar stand. Very dense canopy. Straight trees with very low amount of branches. DBH range from 4 to 12 inches. Lots of deer tracks running east and west. Old trail in center of stand running southeast to northwest to Stand 135.																																															
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7	6124 - Lowland Spruce-Fir	Sawtimber Well	23.1	80	Unspecified	N/A	Pockets of slightly higher, drier ground with decent sized timber. Some pockets of mostly cedar also. Balsam Fir is falling over as well as some clumps of cedar.																																										
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8	4131 - Aspen, Oak	Sapling Well	26.0	28	Immature	N/A	Canopy cover type is close to oak classification. Some scattered 24+ DBH Red Oak.																																										
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9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	14.3	104	1-50	N/A	Some larger DBH (20+ inches) Red Oak. Stand gradually slopes to the west down to lowland stand. Comments for last inventory: Had a fire in this stand in 2008. Large Red Pine and oak were not affected, small regen was killed. Aspen regen, about 30-40 ft tall, was not affected either.																																										
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10	4124 - Red with White Oak	Sawtimber Well	23.7	108	81-110	N/A	Marginal quality oak with some large crowned oaks. Variable DBH of 8 to 20+ inches. Very little aspen understory compared to stand to the west. Lots of multi-stemmed trees. BA is 106.																																										
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11	4199 - Other Mixed Upland Deciduous	Sapling Well	11.4	5	Immature	N/A	Regeneration harvest as part of 52-112-11-01 Aloha Mix in 2014. Some residual oak and pine left from past harvest. MO was mix of deciduous species and pine. Less aspen/maple and more oak species in the west part of stand.																																										
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12	42210 - Natural Red Pine	Sawtimber Medium	7.5	70	81-110	N/A	Canopy is close to 75%. Variable DBH range from 3 to 14 inches. Everything except pine was cut during last treatment. BA is 93. Old green car frame in south center of stand.																																					
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13	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.7	87	Unspecified	N/A	Stand follows along a ravine with steep slopes and an intermitten stream at the bottom. A few scattered X-sized pines in stand. Possible soil borrow pit area south of the opening																																					
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14	310 - Herbaceous Openland	Nonstocked	2.2		Unspecified	No	Area appears to have been used as Tuscarora Township dump from 1957 to 1970. Material unknown.																																					
15	42290 - Natural Mixed Pine	Sawtimber Poor	6.5	62	51-80	N/A	Variable DBH of pine trees ranging form 6 to 16 inches. BA is 66 for the pine.																																					
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16	4133 - Aspen, Mixed Pine	Poletimber Well	5.1	49	Unspecified	N/A	Pole-sized aspen in the east part of stand with rolling terrain and small drainages leading to stream to the north. Failed Jack Pine plantation in the west part of stand where aspen is taking over.																																					
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17	4130 - Aspen	Poletimber Well	14.4	49	Unspecified	N/A	Nice aspen stand. Variable DBH range from 4 to 10 inches. A few scattered log-sized trees.																																					
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18	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	37.7	5	Immature	N/A	Stand was cut as part of Aloha Mix (52-112-11-01) except all Red Pine >18 DBH, oak, and White Pine. MO was mixed pine, mixed deciduous. Retention was left along Old Onaway Road were minerals (old borrow pit area) were removed in 1955.																																					
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20	4133 - Aspen, Mixed Pine	Sapling Well	8.8	16	Immature	N/A																																										
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21	4131 - Aspen, Oak	Sawtimber Well	3.2	68	Unspecified	N/A	Nominate for disposal .																																									
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22	42110 - Planted Red Pine	Sawtimber Medium	30.3	57	111-140	N/A	Red Pine is 4 to 6 sticks high, branchy, and of nicer quality than Stand 38 to the east. DBH range of Red Pine is 6 to 12 inches. Deciduous species were removed in 1992. More concentrated pockets of Red Pine compared to Stand 38 with overall BA of 118 or more. Minerals (soil) were removed from this stand in 1960 and 62 and planted in 1963.																																									
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23	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	24.6	26	Immature	N/A	Pockets of aspen cover type within plantation Jack Pine. Close to an aspen/deciduous/pine cover type.																																									
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24	622 - Lowland Shrub	Nonstocked	1.3	0	Unspecified	No	Very high, steep slope down to the stream and lowland shrubs.																																									
25	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	19.4	60	111-140	N/A	Third row thinned in 2012. Close to a log cover type. DBH range is from 6 to 11 inches. Jack Pine is dying out. West part of the eastern portion of the stand has a heavier oak cover type.																																									
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26	310 - Herbaceous Openland	Nonstocked	2.4		Unspecified	No																																										
27	122 - Road/Parking Lot	Nonstocked	4.4	0	Unspecified	No																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>28</b>	4130 - Aspen	Sapling Well	8.9	28	Unspecified	N/A	There is a drainage with steep banks along the south boundary of the stand.																																																		
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<b>29</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	28.8	66	1-50	N/A	Aspen and Red Pine is relatively short and low quality. Stand is adjacent to non-forested, wildlife maintenance areas. Pockets of log-sized aspen that is over mature.																																																		
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<b>30</b>	42200 - Natural White Pine	Sawtimber Medium	10.3	92	81-110	N/A	Very unique stand for this area. Some scattered 26+ DBH White and Red Pine. Intermittent stream in center of stand. BA is 93.																																																		
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<b>31</b>	42290 - Natural Mixed Pine	Sawtimber Well	3.1	60	81-110	N/A	This area was left as retention for Stand 83 from previous harvest.																																																		
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<b>32</b>	4131 - Aspen, Oak	Sawtimber Well	8.9	50	Unspecified	N/A	Mostly Big Tooth Aspen in center of stand with Quaking Aspen along north boundary. Quaking Aspen has truck rot and is dying out. Red Oak is poor quality and also dying out. southwest corner drops down a fairly steep slope but should still be operable. Balsam Fir component in southwest corner. Survey needed for Section 29, NESW.																																																		
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<b>33</b>	4311 - Pine, Aspen Mix	Sapling Well	12.5	16	Immature	N/A	More White Pine residual along the south boundary.																																																		
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<b>34</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.3	84	81-110	N/A	White Pine and Red Oak DBH range from 6 to 18+ inches. Quaking Aspen is over mature with trunk rot. Some 20+ DBH White Pine. Small drainage in center of stand. One strand wire fence along east boundary.																																					
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<b>35</b>	42110 - Planted Red Pine	Poletimber Well	23.8	60	141-170	N/A	Oak was removed in 1992 but the pine was never thinned. BA is a little higher than Stand 45. Better quality trees in the south part of the stand. Higher amount of Jack Pine regeneration along west boundary. BA is 160. There is an old motor cycle trail that runs through the stand from south to north.																																					
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<b>36</b>	42220 - Natural Jack Pine	Poletimber Well	16.0	50	Unspecified	N/A	Jack Pine DBH range is 4 to 11 inches. Previous inventory stated ages for Jack Pine of 40 and 80 years old. Some Jack Pine is dying out as well as some log-sized aspen. White Pine is forked, branchy and relative short. Stand is not overly stocked and is fairly open for Jack Pine. Some canopy gaps with aspen and oak saplings. Higher aspen cover type is the east part of stand. There is a wire strand along the east boundary line.																																					
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<b>37</b>	4124 - Red with White Oak	Sawtimber Medium	24.9	96	51-80	N/A	Stand was cut as part of 52-115-11-01. Canopy closure is closer to 75%. Pockets of high and low overstory closure. Wide range of DBH for oak. Lots of multi-stemmed oaks with large spreading crowns. North portion has a higher than 75% overstory canopy closure. BA is 58.																																					
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<b>38</b>	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	35.1	60	81-110	N/A	Red Pine plantation that had the deciduous component removed 26 years ago. Red Pine has a variable BA of 83 and has never been thinned. Tree DBH range from 4 to 10 inches with pockets of low to higher BA. Smaller DBH in south part of stand. Rows are hard to see but run north to south. Stand has pockets of log-sized trees. More uniform spacing of Red Pine trees compared to stand 22.																																					
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<b>39</b>	4133 - Aspen, Mixed Pine	Sapling Well	5.5	27	Unspecified	N/A	Good looking regen, well stocked, healthy.																																																
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<b>40</b>	4130 - Aspen	Poletimber Well	8.2	27	Immature	N/A	An apparent ORV trail is marked with blue ribbon in northwest corner of stand.																																																
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<b>41</b>	4130 - Aspen	Poletimber Well	7.8	41	Unspecified	N/A	Larger aspen in the north part of stand.																																																
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<b>42</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	58.7	5	Immature	N/A	Some oaks were left from previous harvest. Regeneration is currently 5 feet or less tall.																																																
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<b>43</b>	42110 - Planted Red Pine	Poletimber Well	35.4	60	171-200	N/A	4 stick high Red Pine. Oak was removed 26 years ago. Pockets of high Red Pine BA and pockets of no Red Pine. Pockets of high Jack Pine regeneration. DBH for Red Pine range from 3 to 12 inches. BA is 197. Old motor cycle trail within stand.																																																
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<b>44</b>	4131 - Aspen, Oak	Sawtimber Well	13.2	58	Unspecified	N/A	DBH range for aspen is 4 to 12 inches. Some aspen is dying but overall is good and could hold. Aspen gets smaller in north part of stand. Quaking aspen does not look healthy.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>45</b>	42110 - Planted Red Pine	Poletimber Well	6.0	60	81-110	N/A	Red Pine is short (3 to 5 sticks tall). Hard to see rows. Red Pine has never been thinned. Pockets of lower BA with smaller DBH trees. All species except RP removed from the stand 28 years ago. BA is currently 103.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
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Jack Pine		10	Sapling	4	28	Cherry (spp.)		Low	10 - 20 feet	Sapling
<b>46</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	29.8	15	Immature	N/A	Stand was cut as part of Sportsman Club Aspen. Pockets of predominately aspen and pockets of predominately oak/aspen regeneration. Also pockets of log-sized oak and pine species. A lot of overstory was left uncut from previous treatment.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
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White Pine		10	Log/Pole	10						
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White Oak		15	Log	12						
<b>47</b>	4319 - Mixed Upland Forest	Sapling Medium	4.6	27	Immature	N/A	Lower stocking compared to adjacent stands to the north and south. Maybe a soil change.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		15	Sapling	3		Red Maple		Medium	10 - 20 feet	Sapling
White Pine		15	Log/Pole	12		Oak (spp.)		Medium	10 - 20 feet	Sapling
Jack Pine		20	Sapling	4	27	Red Pine		Low	5 - 10 feet	Sapling
Red Maple		20	Sapling	2						
Black/Red (Hybrid) Oak		15	Sapling	4						
Red Pine		8	Log/XLog	17						
<b>48</b>	4130 - Aspen	Sawtimber Well	14.3	61	Unspecified	N/A	Nicer quality stand of bigger DBH aspen compared to stand 60. Variable DBH range for aspen with some >12 inches. Largest aspen are falling apart.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		64	Log/Pole	11	61	Red Maple		Medium	5 - 10 feet	Sapling
Red Maple		25	Log/Pole	10		Oak (spp.)		Low	5 - 10 feet	Sapling
						White Pine	Low	Variable	Sapling	
<b>49</b>	42110 - Planted Red Pine	Sawtimber Well	11.2	60	81-110	N/A	Red Pine are 4 to 5 sticks tall with wide range of BA. Hard to see the rows because of poor survival of initial planting. Pockets of lower BA with high Jack Pine regeneration. Old dozer furrow in stand from prescribed or accidental burn. Lots of elk droppings and rubs under the White Oak trees. BA is 108.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		95	Log/Pole	10	60	Black/Red (Hybrid) Oak		Medium	5 - 10 feet	Sapling
						Bigtooth Aspen		Low	10 - 20 feet	Sapling
						Jack Pine	Medium	10 - 20 feet	Sapling	
<b>50</b>	3301 - Low Density Deciduous Trees	Nonstocked	1.8		Unspecified	No	Dump ground from 1970 to 1976. Material is unknown.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>51</b>	4125 - Black, N. Pin Oak	Sapling Well	133.7	5	Immature	N/A	Cut in 2014 as DeCoy mix, 52-111-11-01. Residual oak and jack pine scattered throughout clearcut. Oak regeneration is now 6 feet and less. Jack Pine regeneration is 3 feet and less. Pockets of heavy Jack Pine regeneration in areas. Some aspen regeneration along the east edge of stand.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Black/Red (Hybrid) Oak	68	Sapling	1	5						
Jack Pine	26	Sapling	1							
<b>52</b>	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	26.3	66	Unspecified	N/A	Jack Pine dying out as well as some aspen. Jack Pine DBH range from 4-12 inches. a few larger DBH aspen and pine. Old dozer furrow in west part of stand. MCCCT trail in center of stand.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen	20	Log/Pole	10		Black/Red (Hybrid) Oak	High		10 - 20 feet	Sapling	
Jack Pine	65	Log/Pole	10	66	White Oak	Medium	< 5 feet	Sapling		
<b>53</b>	4125 - Black, N. Pin Oak	Sapling Well	34.4	16	Immature	N/A	20 to 30 feet tall oak regeneration. No residual trees were left from previous harvest.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen	20	Sapling	2		Black/Red (Hybrid) Oak	High		< 5 feet	Sapling	
Northern Pin Oak	60	Sapling	2	16						
Jack Pine	20	Sapling	3							
<b>54</b>	3303 - Mixed Low Density Trees	Nonstocked	5.4		Unspecified	No	Underground pipeline with <5 feet tall of oak and pine species.			
<b>55</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	23.9	96	51-80	N/A	Poor quality, poorly formed oak with a high oak species regeneration sub-canopy. Stand is similar to Stand 66 to the south. A few scattered 20+ DBH oaks. Aspen is dying out. Stand was ready for harvest last entry but delayed because it was being considered for a possible Transfer Station location for Koehler Township.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Oak	34	Log/Pole	11	96	Oak (spp.)	High		Variable	Sapling	
Black/Red (Hybrid) Oak	25	Log/Pole	11		White Pine	Low	Variable	Sapling		
Jack Pine	8	Pole	6		Red Maple	Low	10 - 20 feet	Sapling		
Red Oak	18	Log/XLog	16							
White Pine	8	Pole/Log	9							
<b>56</b>	4131 - Aspen, Oak	Poletimber Well	12.1	52	Unspecified	N/A	North side of road is mostly aspen which the south side of the road is more oak and Jack Pine. Some larger DBH aspen and a few x-sized Hybrid Oak trees.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen	43	Pole/Sapling	6	52	Black/Red (Hybrid) Oak	High		Variable	Sapling	
Black/Red (Hybrid) Oak	45	Log/Pole	12	75						
Jack Pine	10	Pole	7							
<b>57</b>	4311 - Pine, Aspen Mix	Sapling Well	57.8	18	Immature	N/A				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>					
Bigtooth Aspen	35	Sapling	2	18						
Northern Pin Oak	10	Sapling	2							
Jack Pine	50	Sapling	2	18						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>58</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	17.4	102	111-140	N/A	Very nice multi-stemmed and single Red Oak trees. Some 20+ DBH trees. No Hybrid Oak species within stand. Some larger DBH (16+) White Oak also.																																														
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<b>59</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	16.5	96	81-110	N/A	Very variable in tree species and sizes. Wetter ground in the north part of stand. A few scattered large DBH Red Pine and Hybrid Oak. Jack Pine is dying out.																																														
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<b>60</b>	4131 - Aspen, Oak	Poletimber Well	47.4	26	Immature	N/A	Very variable stand with species and DBH. Aspen is mostly pole/sapling size with a wide range of DBH. Poor quality overall with larger aspen and Jack Pine dying out. Close to classify as an oak stand with pockets of mostly oak with some x-sized oak trees. Elk rubs and rabbit tracks observed.																																														
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<b>61</b>	6123 - Lowland Fir	Poletimber Medium	5.3	85	Unspecified	N/A																																															
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<b>62</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	148.6	16	Immature	N/A	Planted Jack Pine in 2004. Lots of natural regeneration as well. 10 to 20 feet tall. Trees are 3 - 4 feet apart and rows are 4 feet apart.																																														
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<b>63</b>	42110 - Planted Red Pine	Sawtimber Well	6.4	60	111-140	N/A	Oak was removed in 1991 but the pine was never thinned. Pine is branchy and is 3 to 5 sticks tall with a DBH range of 4 to 11 inches. Hard to see the rows which are not straight. BA is 140 with pockets of lower BA. Deer runways are present.																																														
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<b>64</b>	42110 - Planted Red Pine	Poletimber Well	19.8	60	111-140	N/A	Poor quality Red Pine 3 to 4 sticks high. Similar to Stand 43. Little better quality in north part of stand but still low quality. Oak was removed 26 years ago. Old motor cycle trail in stand. BA is 127. Jack Pine is regenerating thick in some areas of the stand.																																					
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<b>65</b>	42210 - Natural Red Pine	Sawtimber Well	7.0	93	81-110	N/A	Nice stand of Red Pine which was left last YO. BA is 100. 2009 Comments - Small acreage, cabin log sized trees. Only Mature Red Pine Stand in the compartment.																																					
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<b>66</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	30.3	96	81-110	N/A	Canopy has 75% closure with less BA than stand to the east. Might have been treated 30 years ago. Some 18+ DBH oaks. Lots of multi-stemmed oaks with a wide range of DBH. Relatively no aspen in understory compared to surrounding stands. BA is 87.																																					
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<b>67</b>	4131 - Aspen, Oak	Poletimber Well	32.2	42	Unspecified	N/A	Some aspen pockets of saplings and some aspen pockets of 10 inch DBH trees that are of poor quality. Linear ridge running east to west in the south part of the stand. Possible old rail road or road.																																					
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<b>68</b>	3303 - Mixed Low Density Trees	Nonstocked	8.7		Unspecified	No	Old dump site in the 1970's. Material is unknown. Pole sized aspen is encroaching along the edges. DNR survey marker is located in the center of the stand.																																					
<b>69</b>	4123 - Red Oak	Sawtimber Well	17.9	102	81-110	N/A	Stand may have been treated in 1965. Many multi-stemmed Red Oak with a few larger than 18+ DBH. Lots of deer activity under the White Oak. BA is 87.																																					
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<b>70</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	20.2	27	Immature	N/A																																						
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<b>71</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	54.7	4	Immature	N/A	Stand was cut in 2015 as part of sale 52-115-11-01. Snow was do deep at time of inventory to see if any natural Jack Pine seedlings had established. MO was mixed deciduous and Jack Pine.																																											
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<b>72</b>	4132 - Aspen, Jack Pine	Poletimber Well	80.0	26	Immature	N/A	Jack Pine (2-0) was planted in 1994 after the original stand was harvested. Stand is now dominated by aspen and oak species with planted Jack Pine.																																											
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<b>73</b>	122 - Road/Parking Lot	Nonstocked	8.1		Unspecified	No																																												
<b>74</b>	4133 - Aspen, Mixed Pine	Sapling Well	38.4	15	Immature	N/A	Aspen component becomes less and oak species component becomes more towards the south part of the stand. More pine species along the road. Some pole-sized aspen and pine. Close to a mix deciduous cover type stand. There is a undocumented ORV trail marked with blue ribbon which goes through the stand from south to north.																																											
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<b>75</b>	4133 - Aspen, Mixed Pine	Sapling Well	35.6	18	Unspecified	N/A	Stand was cut 18 years ago except Red Pine, White Pine and oak species. Regen looks good. There is a higher amount of pine species along the waters edge with some past beaver activity.																																											
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<b>76</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	57.5	6	Immature	N/A	Stand was cut as part of HTH Mix 52-123-11-01. West 1/2 was cut in 2013 and east 1/2 was cut in 2014.																																											
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<b>77</b>	42110 - Planted Red Pine	Sawtimber Well	2.9	59	201+	N/A	Good quality trees about 7 sticks high. Never thinned. Deciduous trees were removed in the past. BA is 205.																																
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<b>78</b>	42110 - Planted Red Pine	Poletimber Well	14.6	60	81-110	N/A	3 to 4 stick high, knotty, open-grown Red Pine trees. Oak was removed 20 to 30 years ago. BA is 110 with pockets of lower BA in areas. Old cycle trail along the entire edge of stand which eventually goes west into stands 70 and 64. Trail ends at the road at the north side of the stand.																																
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<b>79</b>	4131 - Aspen, Oak	Sapling Well	8.8	6	Immature	N/A	Stand was cut in early April of 2013. MO was Aspen/Jack Pine. Snow was deep during inventory and did not see any Jack Pine regeneration.																																
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<b>80</b>	4130 - Aspen	Sapling Well	37.2	18	Unspecified	N/A																																	
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<b>81</b>	4131 - Aspen, Oak	Sapling Well	9.9	4	Immature	N/A	Stand cut as part of 52-115-11-01. Retention pocket is the southeast corner of the stand.																																
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<b>82</b>	4131 - Aspen, Oak	Sawtimber Well	31.7	54	Unspecified	N/A	Aspen DBH range from 4 - 12 inches. A few larger DBH aspen in the better soil areas. Heavier White Pine understory along the waters edge. Lots of deer tracks along the waters edge.																																
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<b>83</b>	4131 - Aspen, Oak	Sapling Well	13.5	4	Immature	N/A	Stand was clearcut in 2014, sold as PU 3 of No Lunch Mix (52-109-11-01) but harvested instead with Decoy Mix (52-111-11-01). Close to an oak stand. Pockets of just oak regeneration in center of stand. Previous management objective was aspen/oak.																																												
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<b>84</b>	4125 - Black, N. Pin Oak	Sawtimber Well	5.8	96	51-80	N/A	Low quality timber. Pockets of pole-sized aspen and Red Maple stump sprouts from previous cut.																																												
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<b>85</b>	42120 - Planted Jack Pine	Poletimber Well	23.3	58	Unspecified	N/A	Minerals (soil) were removed from this stand in 1961 and planted in 1962. Stand is about 6 feet lower than surrounding terrain. Jack Pine is 3 to 4 sticks high and is dying with some dead standing trees. Aspen is also low quality and the Red Pine is also short.																																												
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<b>86</b>	4130 - Aspen	Sapling Well	3.8	20	Unspecified	N/A	Nice regen, healthy, looks good. There is a small, possibly rectangularly shaped depression in the very south west corner of the stand. It is adjacent to a few large-diameter White Pine trees.																																												
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<b>87</b>	623 - Emergent Wetland	Nonstocked	3.9	0	Unspecified	No																																													
<b>88</b>	42110 - Planted Red Pine	Sawtimber Well	19.9	60	171-200	N/A	Nice Red Pine in pockets which is 7 sticks tall. Rows are not straight. DBH range is 4 to 14 inches but fairly uniform throughout the stand. Pockets of aspen and deciduous species from previous harvest. BA is 190 in the pine pockets.																																												
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<b>89</b>	500 - Water	Nonstocked	77.2		Unspecified	No																																													
<b>90</b>	42110 - Planted Red Pine	Poletimber Well	19.5	60	111-140	N/A	Better quality Red Pine and more uniform than stand 64. Oak was removed in the past. Close to a log-sized stand with a few 12 inch DBH trees. Hard to see the rows. BA is 136.																																												
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92	4139 - Aspen, Mixed Deciduous	Sapling Well	11.5	27	Immature	N/A	A few scattered log sized White Pine in stand.																																									
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95	42220 - Natural Jack Pine	Sawtimber Well	54.3	66	Unspecified	N/A	Fairly good quality Jack Pine that is 5 sticks tall. Some of the Jack Pine is dying out. DBH range from 4 - 11 inches. A few larger DBH (12+ inches) aspen. MCCCT trail runs through the center of the stand.																																									
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96	4130 - Aspen	Sapling Well	9.1	28	Unspecified	N/A	Close to a pole-sized cover type.																																									
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97	6123 - Lowland Fir	Sapling Well	4.3	20	Immature	N/A	Black Ash and most of the White Cedar in the overstory is dead or dying. Converting to a Balsam fir sapling stand. Some bigger DBH trees along the road.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
98	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimber Well	24.7	64	Unspecified	N/A	Jack Pine is dying and falling apart. Some larger DBH aspen and Jack Pine. Some less dense areas of trees.																																										
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99	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	78.2	102	81-110	N/A	Variable stand of species and diameters. Big crowned oak trees with some x-sized pine and oak trees. Pockets of larger, poorer quality aspen to the north which should be cut. Pockets of nice Red Pine along the road. Leave as retention area or mark some to leave.																																										
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100	4132 - Aspen, Jack Pine	Sawtimber Well	11.1	67	Unspecified	N/A	White Pine is branchy and multi-stemmed.																																										
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101	4133 - Aspen, Mixed Pine	Sawtimber Well	6.8	70	Unspecified	N/A	Close to a Red Pine stand. Red Pine is nice quality with a range from 4 to 16 inches. More Red Pine along the west edge, adjacent to the stream. Small depression runs down the middle of the stand.																																										
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102	4310 - Pine, Oak Mix	Sawtimber Well	11.3	93	51-80	N/A	Mostly, poorly formed oak. Some oak and Jack Pine is dying out. Some nice tall Jack Pine. Variable DBH for the Jack Pine. BA is 60.																																										
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103	623 - Emergent Wetland	Nonstocked	5.6		Unspecified	No																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
<b>104</b>	6127 - Lowland Pine	Sawtimber Well	8.3	96	141-170	N/A	Small stream in center of stand. Fairly steep banks leading down to the stream. A few x-sized (>24" DBH) White Pine.																																
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<b>105</b>	4310 - Pine, Oak Mix	Sapling Well	70.3	4	Immature	N/A	Hybrid Oak is about 6 feet tall and Jack Pine is about 3 feet tall. Planting Jack Pine was the MO from previous management. Jack Pine should become the dominant species within the stand by the next YOE.																																
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<b>106</b>	4132 - Aspen, Jack Pine	Sawtimber Well	2.4	67	Unspecified	N/A	Some larger DBH aspen 14+.																																
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<b>107</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	12.9	6	Immature	N/A	Cut in spring of 2013 as part of No Lunch Mix, 52-109-11-01. White pine was left as visual management. Aspen is mostly along the edge of stand with mostly oak regeneration in center.																																
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<b>108</b>	4125 - Black, N. Pin Oak	Sawtimber Medium	11.6	96	51-80	N/A	Poor quality oak with large crowns spreading out in the canopy. Aspen was removed 18 years ago. BA is 63.																																
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<b>109</b>	42110 - Planted Red Pine	Poletimber Well	8.7	60	141-170	N/A	Nice quality, 6 to 7 stick tall Red Pine. DBH range is 4 to 10 inches. Jack Pine is dying out. Rows go from southwest to northeast and are hard to see. BA is 160.																																
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<b>110</b>	4133 - Aspen, Mixed Pine	Sapling Well	7.8	28	Unspecified	N/A																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>111</b>	4310 - Pine, Oak Mix	Poletimber Medium	5.5	31	Immature	N/A	Close to a Jack Pine Stand. Oak stump sprouts and open grown Jack Pine. Red Pine is very short.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Black/Red (Hybrid) Oak		43	Pole/Sapling	6		Black/Red (Hybrid) Oak	
Jack Pine		50	Pole/Sapling	5	31	Density	
						Avg. Height	
						Size	
						Black/Red (Hybrid) Oak	
						High	
						5 - 10 feet	
						Sapling	
<b>112</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	5.4	65	Unspecified	N/A	Aspen is lower quality with some trunk rot and dying. Some scattered large DBH (14+ inches) pine. Jack is also dying out.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Quaking Aspen		75	Log/Pole	11	65	Northern Pin Oak	
White Pine		10	Log/Pole	10		White Pine	
Jack Pine		15	Log/Pole	10		Cherry (spp.)	
						Density	
						Avg. Height	
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						White Pine	
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						Cherry (spp.)	
						Low	
						10 - 20 feet	
						Sapling	
<b>113</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	39.8	18	Unspecified	N/A	A few scattered, log-sized pine trees were left uncut from past harvest.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Black/Red (Hybrid) Oak		20	Sapling	2		Black/Red (Hybrid) Oak	
Jack Pine		70	Sapling	2	18	Density	
						Avg. Height	
						Size	
						Black/Red (Hybrid) Oak	
						High	
						< 5 feet	
						Sapling	
<b>114</b>	4130 - Aspen	Sapling Well	12.1	27	Unspecified	N/A	Good looking regen, well stocked, healthy.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Bigtooth Aspen		68	Sapling/Pole	3	27	Black/Red (Hybrid) Oak	
Jack Pine		10	Sapling	3		Jack Pine	
White Oak		10	Sapling	3		Density	
						Avg. Height	
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						Jack Pine	
						Low	
						Variable	
						Sapling	
<b>115</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	10.1	28	Immature	N/A	A few larger DBH (12 - 18") Hybrid Oak scattered in stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Bigtooth Aspen		28	Sapling/Pole	4		Black/Red (Hybrid) Oak	
Black/Red (Hybrid) Oak		50	Sapling	3	28	Density	
Red Pine		10	Log/Pole	12		Avg. Height	
						Size	
						Black/Red (Hybrid) Oak	
						High	
						< 5 feet	
						Sapling	
<b>116</b>	42110 - Planted Red Pine	Sawtimber Well	6.7	58	171-200	N/A	Nice quality Red Pine with DBH range from 4 to 12 inches. Most Jack Pine is dead or is dying. Hard to see rows. BA is over 200 is spots.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Red Pine		86	Log/Pole	10	58	Black/Red (Hybrid) Oak	
Jack Pine		10	Pole	8		Density	
						Avg. Height	
						Size	
						Black/Red (Hybrid) Oak	
						Low	
						5 - 10 feet	
						Sapling	
<b>117</b>	42110 - Planted Red Pine	Sawtimber Well	30.4	60	111-140	N/A	Mostly good quality, 4 to 5 stick tall Red Pine trees with suppressed trees. Thinned in 1991. DBH range from 4 to 12 inches. BA is 117 with some pockets or lower BA.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>	
Red Pine		98	Log/Pole	10	60	Bigtooth Aspen	
						Black/Red (Hybrid) Oak	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
<b>118</b>	42110 - Planted Red Pine	Sawtimber Well	16.4	61	141-170	N/A	Oak was removed in the past but the pine has never been thinned. Variable BA with the better quality trees and higher BA on the west side of stand. East side of stand has lower quality, shorter trees and lower BA. Rows are also harder to see and are not very straight. BA is 166.																																			
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<b>119</b>	42120 - Planted Jack Pine	Sapling Well	36.6	17	Unspecified	N/A																																				
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<b>120</b>	4125 - Black, N. Pin Oak	Sapling Well	20.9	4	Immature	N/A	Stand was clearcut in 2014 as part of No Lunch Mix, 52-109-11-01. Individual oaks were in overstory during harvest. Intent was to burn as a way to promote oak and jack pine after harvest. No need to burn since nice regeneration of oak and pine is present.																																			
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<b>121</b>	310 - Herbaceous Openland	Nonstocked	0.7	0	Unspecified	No																																				
<b>122</b>	330 - Low-Density Trees	Nonstocked	6.0	0	Unspecified	No																																				
<b>123</b>	4125 - Black, N. Pin Oak	Sawtimber Poor	8.7	95	1-50	N/A	Stand was accidentally cut in a timber trespass in 2014. Formerly a Red Pine plantation with very low understory and a few oaks in the canopy. Canopy closure is currently closer to 25%. There are a few scattered 20+ DBH oak trees within the residual oak cover type. Higher Jack Pine regeneration in spots. Snow depth is about 2 feet at time of inventory.																																			
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<b>124</b>	310 - Herbaceous Openland	Nonstocked	4.8	0	Unspecified	No																																				
<b>125</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	39.8	100	81-110	N/A	Large crowned oaks. Pockets of larger diameter, over-mature aspen. Aspen pockets is along the west edge. Nice volume in pockets. BA is 80.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
126	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	20.9	18	Immature	N/A	Close to an aspen cover type stand.																																				
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127	3303 - Mixed Low Density Trees	Nonstocked	0.5		Unspecified	No	Underground pipeline. Trees are < 5' tall. The vegetation will probably be cut or sprayed in the near future.																																				
129	4131 - Aspen, Oak	Sapling Well	3.2	26	Unspecified	N/A	Aspen is mostly in the south part of the stand.																																				
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130	42110 - Planted Red Pine	Poletimber Well	2.8	60	141-170	N/A	Similar to Stand 109. Red Pine DBH range is 4 to 11 inches and has never been thinned. Jack Pine is dying out with poor quality aspen and oak. BA is 168.																																				
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131	42210 - Natural Red Pine	Sawtimber Medium	5.8	70	51-80	N/A	Aspen stand was cut 18 years ago except the Red Pine. Red Pine DBH range from 8 to 24 inches. A few scattered X-sized Red and White Pine trees. BA is 75.																																				
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132	330 - Low-Density Trees	Nonstocked	4.2	0	Unspecified	No																																					
133	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	2.9	59	141-170	N/A	Failed Red Pine planting with many trees < 6 inch DBH. Trees are 4 to 11 inches DBH range with pockets of higher and lower BA. Hard to see the rows. BA is 153.																																				
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<b>135</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	1.7	90	Unspecified	N/A	Aspen is over mature and dying. A couple 24+ DBH White Pine in stand.																																					
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<b>136</b>	6120 - Lowland Cedar	Poletimber Poor	18.4	85	Unspecified	N/A	Poor quality cedar stand. Cedar tops are dead. Very difficult to walk through. Walked an old trail from the northeast corner to the south. Trail is currently filled in with tag alder.																																					
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<b>137</b>	122 - Road/Parking Lot	Nonstocked	1.2	0	Unspecified	No																																						
<b>140</b>	4310 - Pine, Oak Mix	Sawtimber Well	2.0	96	81-110	N/A	Stand was left as retention from last treatment. DBH range for oak and pine is 4 to 24+ inches.																																					
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<b>141</b>	429 - Mixed Upland Conifers	Sawtimber Well	3.7	60	81-110	N/A	This area was left as retention for Stand 107 from last timber harvest.																																					
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<b>142</b>	42290 - Natural Mixed Pine	Sawtimber Medium	9.8	80	81-110	N/A	Pockets of Red and White Pine. DBH range is 10 - 24+ inches. BA is 87.																																					
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145	622 - Lowland Shrub	Nonstocked	0.8		Unspecified	No																												
148	42290 - Natural Mixed Pine	Sawtimber Poor	21.5	65	1-50	N/A	White and Red Pine DBH range is 6 to 14 inches. White Pine is short and branchy. Nice oak regeneration with pockets of aspen regeneration.																											
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151	42110 - Planted Red Pine	Poletimber Medium	4.4	60	81-110	N/A	Red Pine is 3 to 4 sticks tall and shorter than Stand 63 to the north. DBH ranges from 4 to 10 inches. Pockets of no Red Pine. Oak species were removed 28 years ago. Deer tracks and bedding spots were observed. BA is currently 103.																											
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153	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9	0	Unspecified	No	Landing site for adjacent harvest.																											
154	122 - Road/Parking Lot	Nonstocked	2.5		Unspecified	No																												
156	4130 - Aspen	Sapling Well	5.2	18	Unspecified	N/A																												
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157	42110 - Planted Red Pine	Sawtimber Well	25.5	60	171-200	N/A	Taller, more uniform, better quality Red Pine trees than adjacent Stand 43. 2-2 seedling stock was used instead of 3-0. Oak was removed 26 years ago. Hard to see the direction of the rows. Access trails through the stand running east and west. Oak is dying out. DBH range from 3 to 12 inches. BA is 200.																											
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158	122 - Road/Parking Lot	Nonstocked	1.2	0	Unspecified	No																												
159	6120 - Lowland Cedar	Sawtimber Well	5.5	100	Unspecified	N/A	More open canopy compared to stand 6 to the south with pockets of higher Balsam Fir regeneration. Some blowdown.																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
160	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	20.2	85	Unspecified	N/A	Fairly branchy stand to walk through. Lots of heavy deer tracks and bedding areas.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	30	Pole/Sapling	6	
Northern White Cedar	40	Pole/Sapling	7	85
Tamarack	20	Pole/Sapling	7	
Balsam Fir	10	Pole	8	

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling