



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52120

Entry Year 2023

Acreage: 3,071

County Emmet

Management Area: Mackinaw Lake Plain

**Revision Date:** 2021-05-04

**Stand Examiner:** John Scheele

**Legal Description:**

T38N - R04W Sections 4, 5, 6, 8, 9, 16, 17, 18, 20 and 21

**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:**

The compartment is fairly level to gently sloping and contains both lowland and upland forested cover types. There are 3 general soil type associations in the compartment. The Carbondale-Tawas-Roscommon Association soils are deep, poorly drained and very poorly drained, organic and sandy soils in broad glacial drainageways and on outwash plains and lake plains. These soils are throughout the compartment. The Thomas-Brevort-Iosco Association soils are deep, somewhat poorly well drained and poorly drained, nearly level to gently sloping, loamy and sandy soils on lake plains. These soils are located in the northern portion of the compartment. The East Lake-Blue Lake-Kalkaska Association soils are deep, well drained, nearly level, sandy soils on lake beaches and outwash plains. These soils are scattered along Munger Road in the southern part of the compartment.

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

The state ownership within this compartment consists of 2 relatively large contiguous blocks. There is a significant amount of private ownership surrounding the state ownership as well. The private ownership consists of relatively large-sized individual parcels. The northern boundaries of the compartment are adjacent to other large state ownership.

**Unique Natural Features:**

The Carp Lake River flows through the compartment connecting Paradise Lake to Lake Michigan.

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

There are 2 documented archeological sites within the compartment in Sections 16 and 18. Neither sites will be effect by prescriptions.

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

This compartment provides habitats for nesting raptors and rare insects. The mixture of upland and swamp provides variety in habitat types for birds, reptiles, and amphibians.

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

There are several active sand/gravel pits to the southeast of the compartment, associated with the drumlin field. There appears to be some potential for sand & gravel within the compartment, but wetlands could inhibit development. There is no known economic oil & gas potential in this area at this time. There is no known potential for metallic minerals in this part of the state.

**Vehicle Access:**

The southern portion of the compartment is fairly accessible by Munger and East Gill Road, as well as scattered state two-tracks. The northern portion of the compartment has very limited access due to private ownership and lowland soil types. Oliver Road and Linsley Road do provide some access along the northern boundary of the compartment.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

No recreational facilities. Good opportunities for hunting, fishing, and other outdoor activities.

**Fire Protection:**

No concerns.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

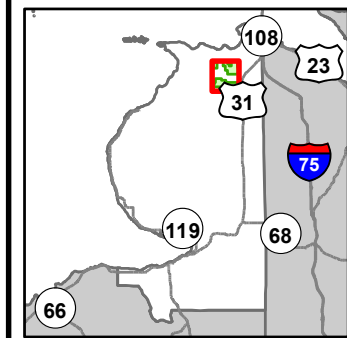
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

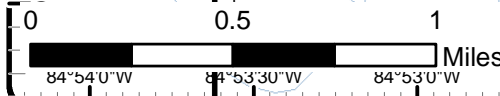
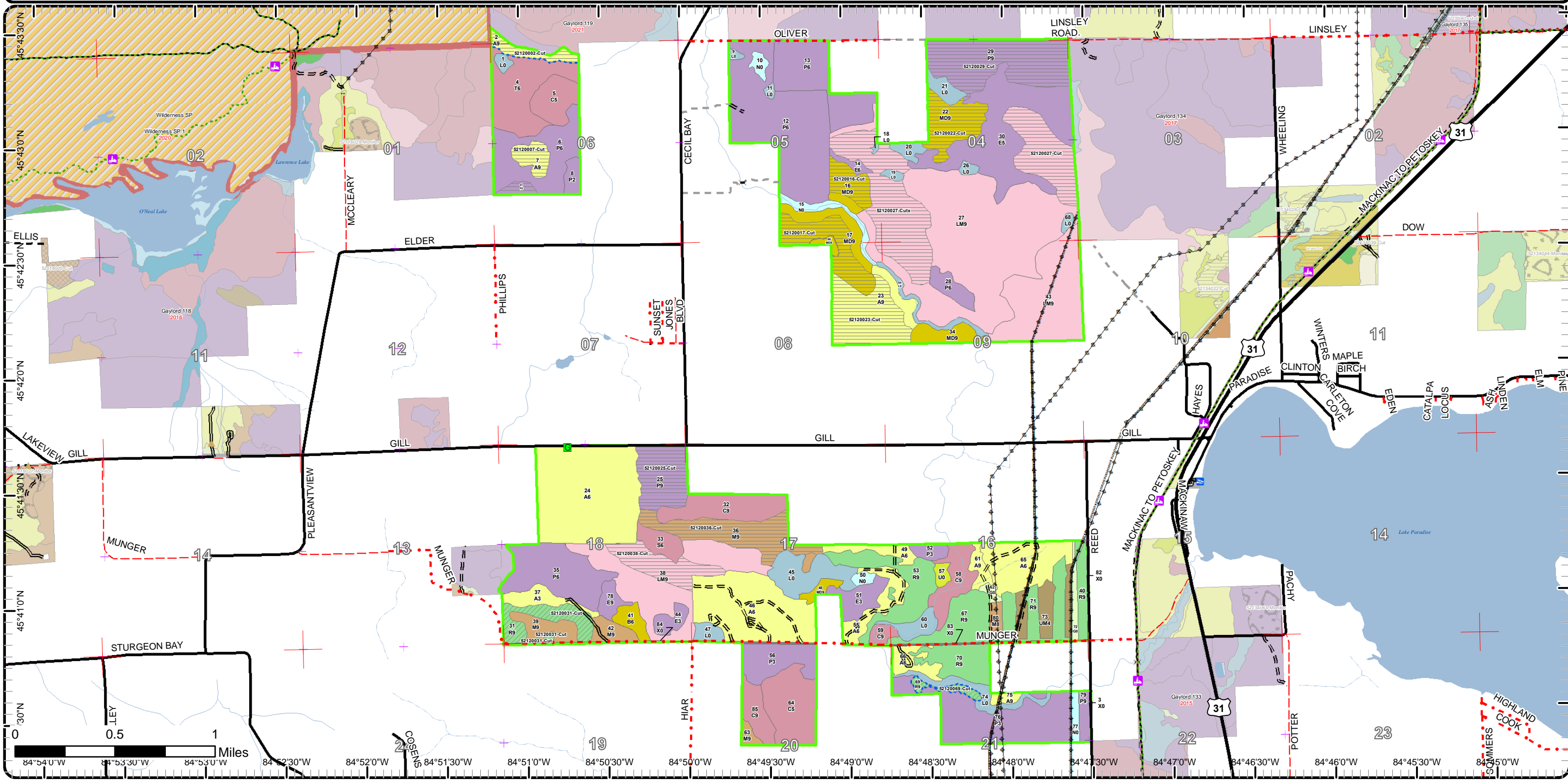
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 120  
 T38N, R04W, Sec. 4-6, 8, 9, 16-18, 20, 21  
 County: Emmet  
 Unit: Gaylord  
 Mgmt Area: Mackinaw Lake Plain  
 YOE: 2023  
 Acres: 3070.8 GIS Calculated  
 Examiner: John Scheele  
 Map Revised: 10/5/2021  
 Map Phase: Post-Review



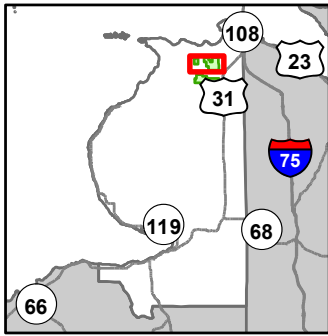
- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Gate
- Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



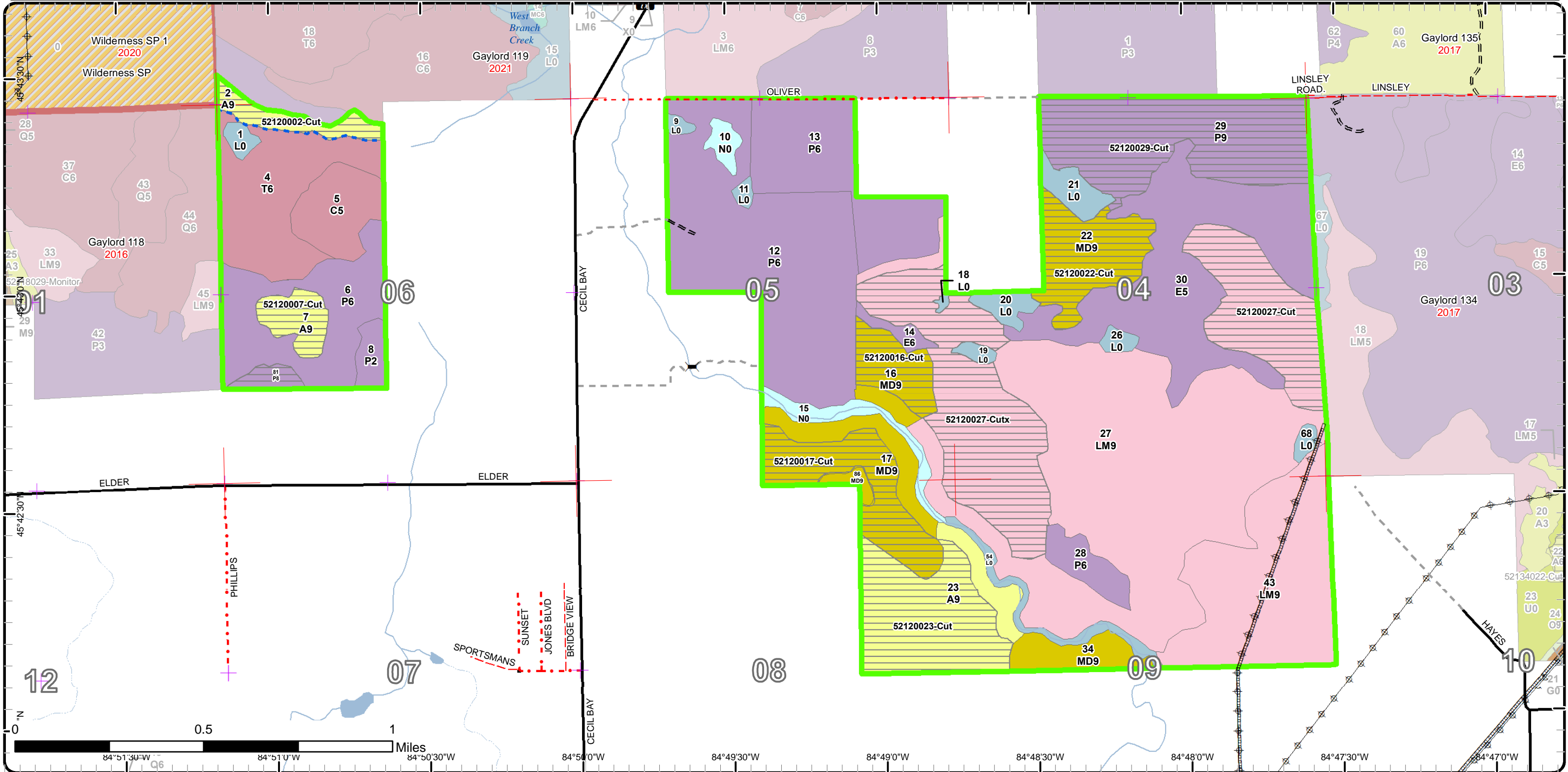
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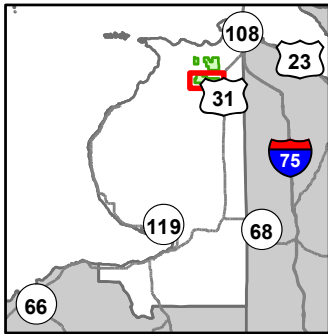
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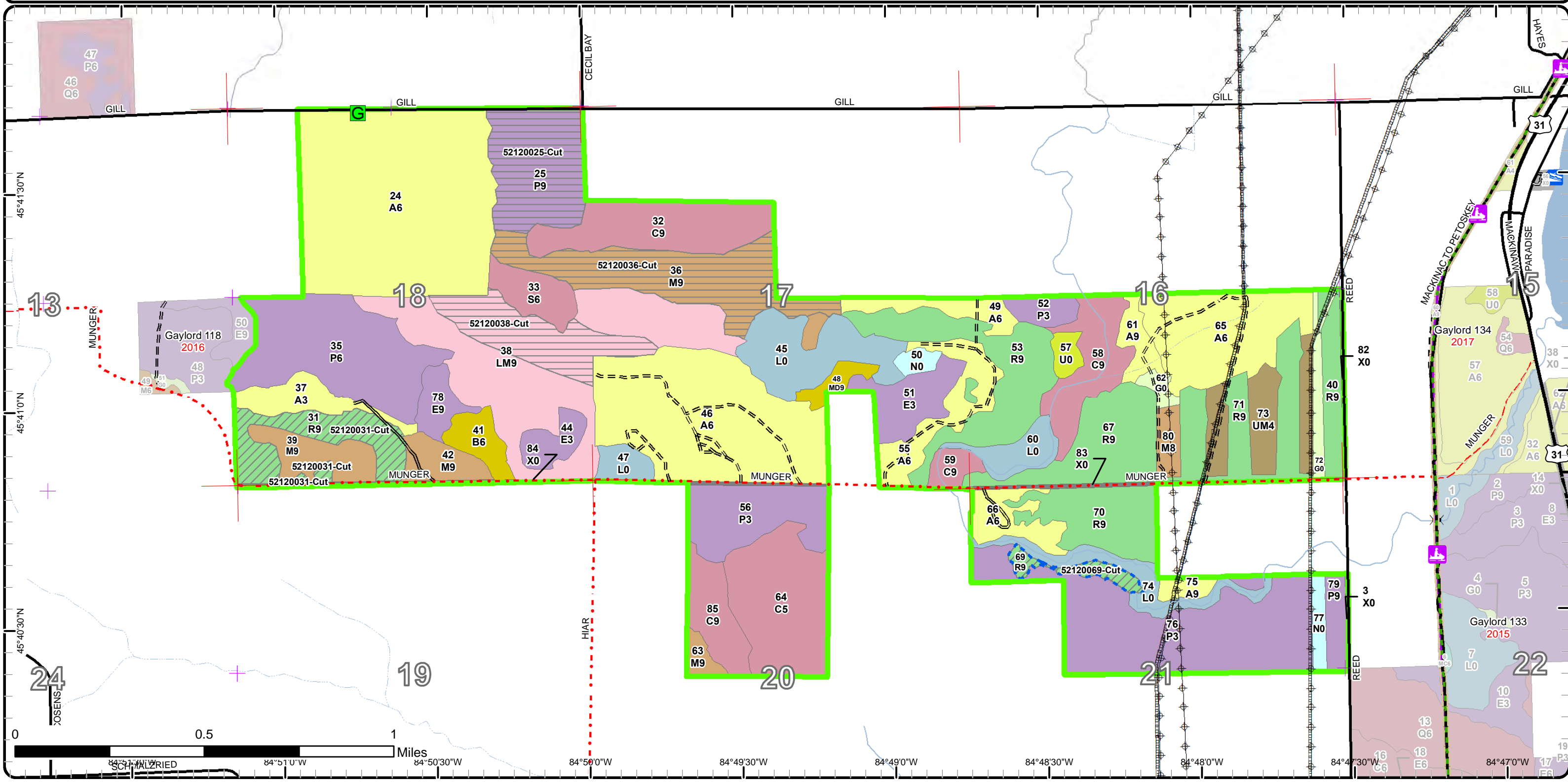


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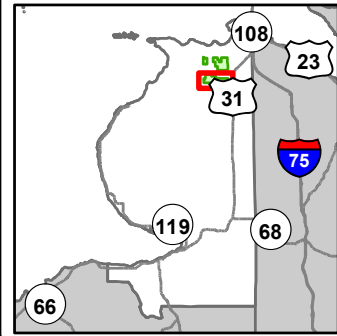




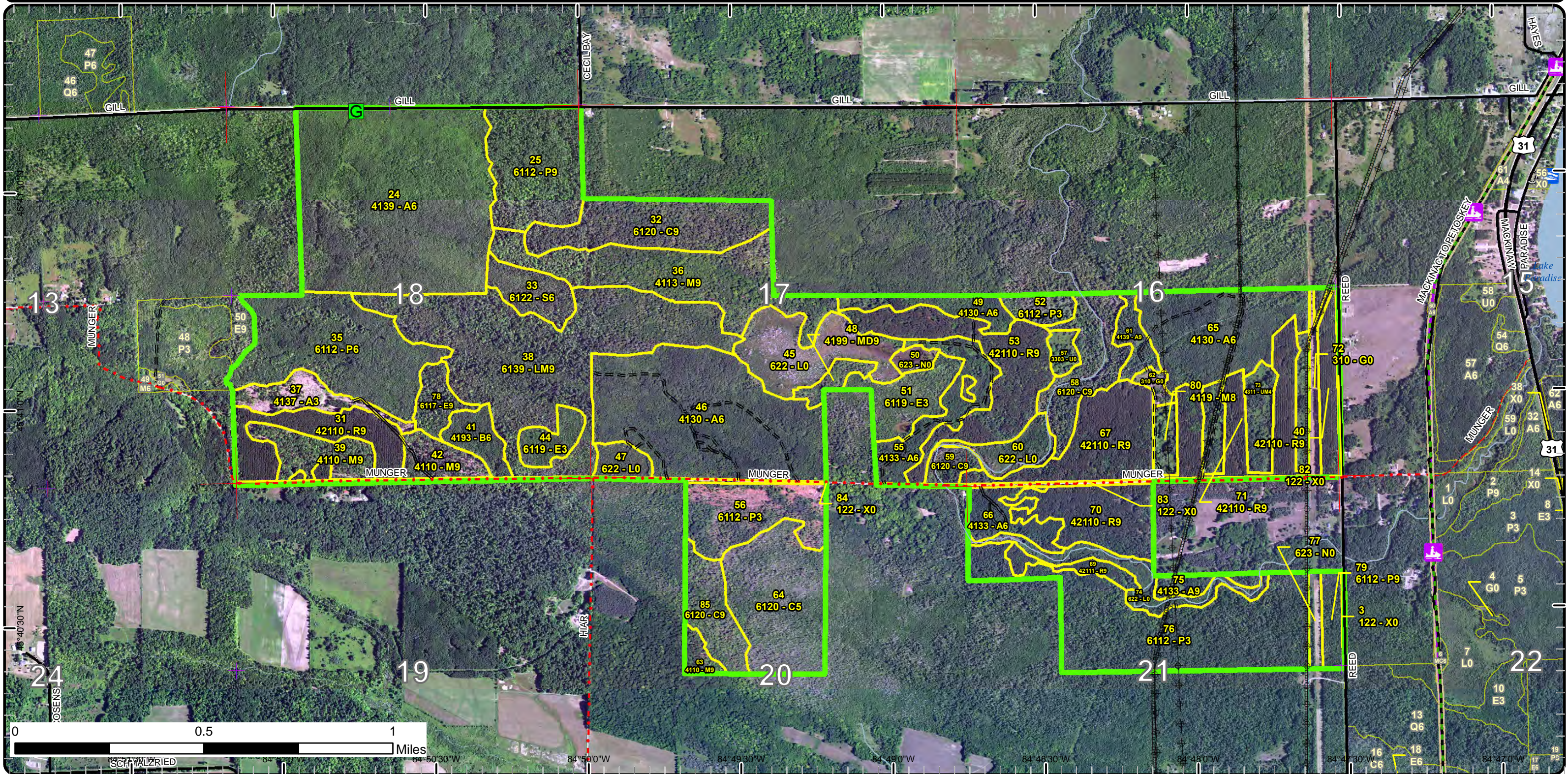


# Stand Boundary Map

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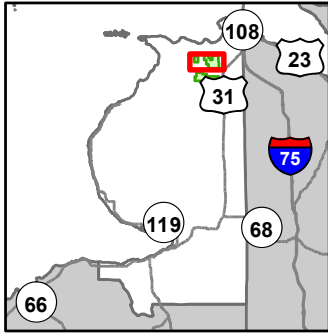
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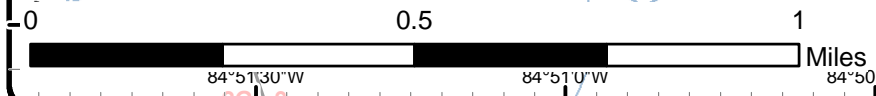
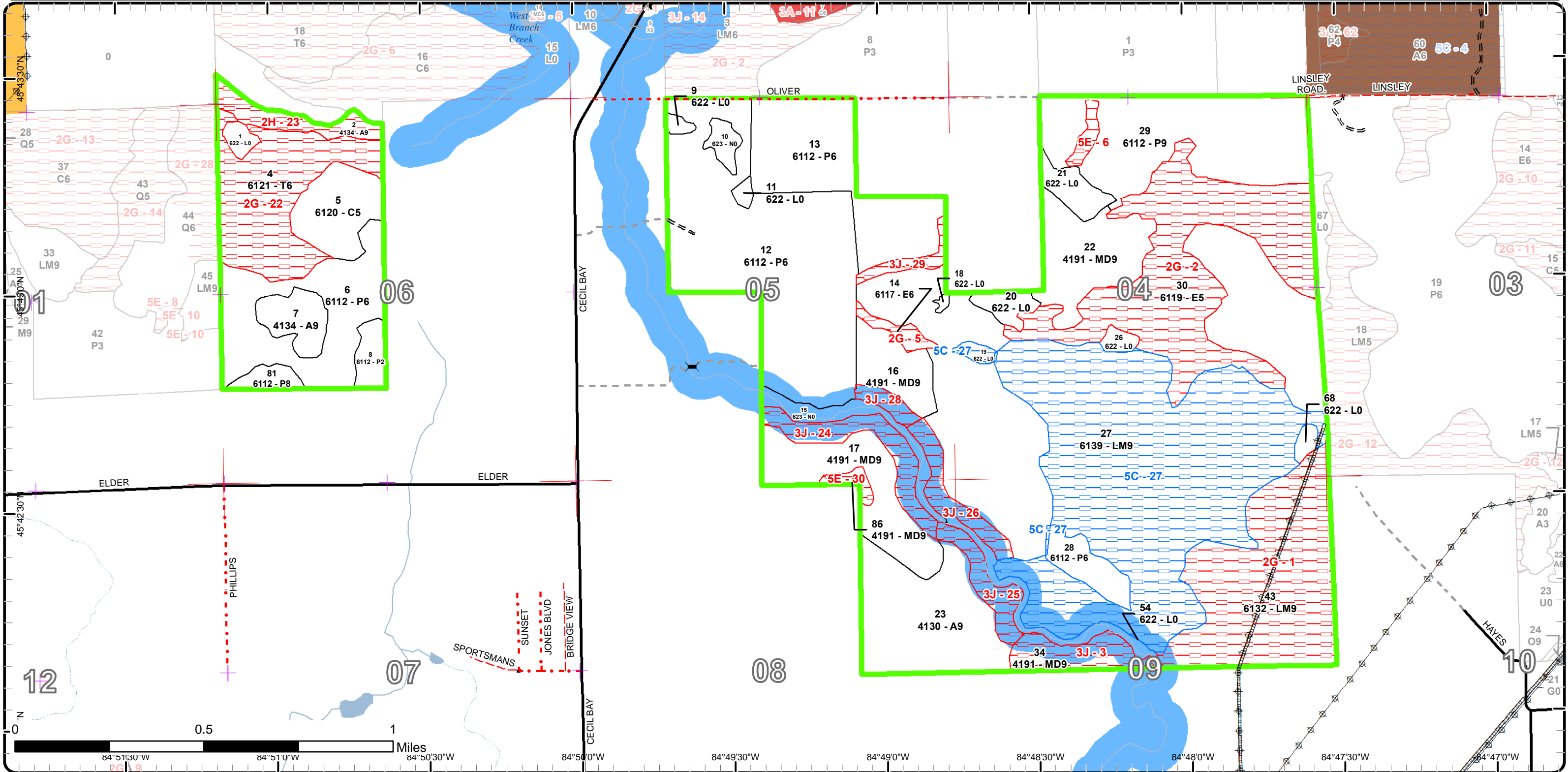


# Special Conservation Areas

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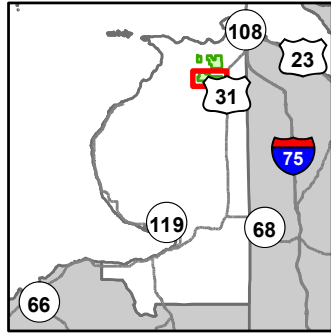
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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer
- Wildlife Management Areas



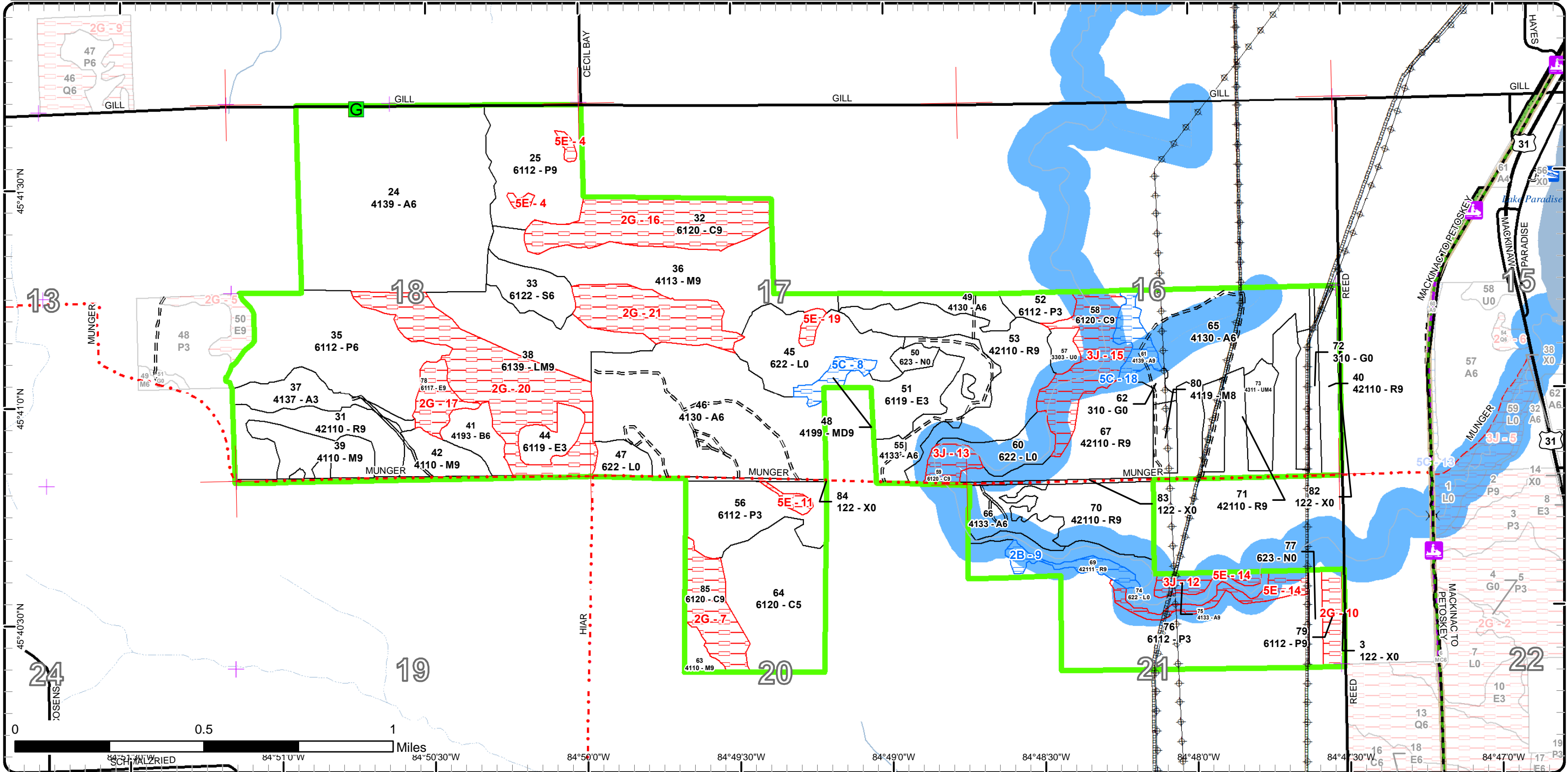


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- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Rail-Trail Corridor





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	17	0	26	355	0	0	0	5	15	104	0	0	0	0	0	0	0	522
Cedar	0	0	0	0	0	0	0	0	0	0	113	79	0	0	0	0	0	0	191
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	0	137	9	150	234	0	0	0	0	109	55	0	0	0	0	0	0	0	692
Lowland Deciduous	0	0	0	11	0	22	125	5	0	0	11	0	0	0	0	0	0	0	174
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	442	242	0	0	0	0	0	0	0	684
Lowland Shrub	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Marsh	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	33	110	18	0	0	0	0	0	0	161
Northern Hardwood	0	0	0	0	0	0	0	0	0	20	91	0	0	0	0	0	0	0	111
Paper Birch	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	0	0	221	0	0	0	0	0	0	0	0	0	0	221
Tamarack	0	0	0	0	0	0	0	0	0	0	65	0	0	0	0	0	0	0	65
Upland Mixed Forest	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
<b>Total</b>	<b>190</b>	<b>154</b>	<b>9</b>	<b>229</b>	<b>589</b>	<b>22</b>	<b>125</b>	<b>226</b>	<b>21</b>	<b>619</b>	<b>791</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3069</b>





## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 120

Total Compartment Acres: 3,071

Commercial Harvest - 644  
 Harvests with Site Condition - 22  
 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	97	0	0	0	0	0	0	0	0	97
Lowland Aspen/Balsam Poplar	155	0	0	0	0	0	0	0	0	155
Lowland Mixed Forest	203	0	0	0	0	0	0	0	0	203
Mixed Upland Deciduous	108	0	0	0	0	0	0	0	0	108
Northern Hardwood	64	0	0	0	0	0	0	0	0	64
Red Pine	0	0	0	0	0	40	0	0	0	40
<b>Total</b>	<b>627</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>667</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	667	0	0	0	0	0	0	0	0	667
Next Step	0	0	0	0	0	0	627	0	0	627
<b>Total</b>	<b>667</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>627</b>	<b>0</b>	<b>0</b>	<b>1294</b>





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>2</b>	<b>52120002-Cut</b>	14.8	4134 - Aspen, Spruce/Fir	Sawtimber Well	90	Unspec ified	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest stand to regenerate. Leave any White or Red Pine, which is insignificant volume, for stand structure diversity. No other retention due to small stand size and to increase merchantability of sale. Cutting in summer or winter conditions with tracked equipment is recommended to minimize rutting concerns. Access stand through private property to the east if ever granted(Melvin Cadwell property).</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked stand of aspen and deciduous species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Blocked by Obstacle</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>7</b>	<b>52120007-Cut</b>	15.1	4134 - Aspen, Spruce/Fir	Sawtimber Well	80	Unspec ified	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest stand to regenerate. No retention due to small stand size and to increase merchantability of sale. Access stand from the south through private property and Stand 81. Harvest during winter or summer conditions with tracked equipment to minimize rutting concerns. Composite or crane mats will be needed to access stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked stand of aspen, deciduous, and coniferous species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>16</b>	<b>52120016-Cut</b>	21.3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	80	111- 140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Harvest stand to regenerate. Harvest during winter of summer conditions to minimize soil rutting concerns. Retention is the 300 uncut area along the Carp River.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked stand of deciduous and coniferous species.</p> <p><u>Other Comment:</u> Consult with Site Conditions Specialist and Wildlife Division regarding wetland/beaver dam crossing in Stand 12. Access through private property to north may also be possible.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>17 52120017-Cut</b>	44.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	90	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest stand to regenerate. Do not cut cedar, hemlock, or White Pine, which are insignificant in volume, for stand structure diversity and potential eagle nest trees. The 300 feet uncut area along the Carp River will serve as stream protection and long-term retention. Leave the dense conifer area adjacent to the northeast corner of private property as an additional retention area. Exclude the wet/drainage area in the far southwest corner of the stand due to the excessively wet soil conditions. Retention acreage may exceed the recommended 10% guideline. Winter or summer harvest recommended with track equipment to reduce soil rutting concerns. Access stand through Stand 23 and private property .</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked stand of aspen, deciduous, and coniferous species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>22 52120022-Cut</b>	41.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	90	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest stand to regenerate. Leave hemlock, cedar, and pine species for stand structure diversity and which are insignificant in volume.</p> <p><u>Specs:</u> Recommended retention would be in the northwest corner of stand, similar to previous prescription. May want to mark treatment boundary with non-red color to distinguish from previous treatment boundary. Cut in winter or dry summer conditions with tracked equipment recommended to minimize soil rutting concerns. Access stand either through private property or from Stand 29.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked mix of aspen, deciduous, and coniferous species</p> <p><u>Other Comment:</u> Include vernal pond protection specification to timber sale proposal or exclude any vernal ponds from the treatment area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>23 52120023-Cut</b>	67.5	4130 - Aspen	Sawtimber Well	90	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest stand to regenerate. Do not cut hemlock and cedar, which are insignificant in volume, for stand structure diversity. The 300 feet uncut area along the Carp River will serve as stream protection and long-term retention. Harvesting during summer or winter conditions with tracked equipment is recommended to reduce soil rutting concerns. Access stand through private property to the south.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked stand of aspen, deciduous, and coniferous species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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25	52120025-Cut	49.3	6112 - Lowland Aspen	Sawtimber Well	95	Unspecified	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Specs: Harvest stand to regenerate. Do not cut hemlock and White Pine, which are insignificant in volume, for stand structure diversity. May want to use non-red color for new prescription boundary. Cut during winter or summer conditions with tracked equipment is recommended to reduce soil rutting concerns. Keep current retention areas for new prescription.

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

Treatments:

Acceptable Regen: Acceptable regeneration includes a moderate to well stocked stand of lowland aspen, deciduous, and coniferous species.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

27	52120027-Cut	59.0	6139 - Mixed Lowland Forest	Sawtimber Well	85	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Specs: Harvest to regenerate. Do not cut pine or cedar. Access from two-track off of Linsley Road. Cut in summer or winter with tracked equipment to minimize soil rutting concerns. Potential retention area would be in center of stand around lowland area.

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

Treatments:

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

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

27	52120027-Cutx	105.8	6139 - Mixed Lowland Forest	Sawtimber Well	85	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Specs: Harvest to regenerate. Do not cut cedar or the scattered White Pine. The cedar is predominately in the natural drainages leading to the Carp River. White Pine is insignificant in volume and potential eagle nest trees. Access stand via Stand 12 or through private property to the north. Cut in summer or winter with tracked equipment to minimize soil rutting concerns. Keep 300 foot uncut area to Carp River for river protection and long term retention. Also leave area adjacent to the wet drainageway along northwest part of stand for stream protection and long term retention.

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

Treatments:

Acceptable Regen: Acceptable regeneration includes a moderate to well stocked stand of aspen, deciduous, and coniferous species.

Other Comment: Consult with Site Conditions Specialist and Wildlife Division regarding wetland/beaver dam crossing in Stand 12. Access through private property to north may also be possible.

Site Condition

Proposed Start Date: 10/1 /2022





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>29 52120029-Cut</b>	99.7	6112 - Lowland Aspen	Sawtimber Well	80	Unspecified	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest stand to regenerate. Do not cut pine or cedar. Cut during winter or dry summer conditions with tracked equipment to minimize soil rutting concerns. Recommended retention would be the previously marked area in the western portion of the stand, which is a drainage flowing to the north.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked stand of lowland aspen, deciduous, and coniferous species.</p> <p><u>Other Comment:</u> Include BMPs specifications to timber sale proposal and protect any springs/drainages.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>31 52120031-Cut</b>	32.1	42110 - Planted Red Pine	Sawtimber Well	69	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark stand to a residual BA of 100 to 120.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Consult with Forest Health specialist regarding possible HRD restriction and guidelines.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>36 52120036-Cut</b>	63.8	4113 - R.Maple, Conifer	Sawtimber Well	93	111-140	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest stand to regenerate. Do not cut Hemlock or White Pine &gt; 22 inches, which are insignificant in volume, for stand structure diversity.</p> <p><u>Specs:</u> Harvest during winter or summer conditions to minimize soil rutting concerns. Leave the small peninsula extending into Stand 45 as retention. Also put retention area around drainageway in the west part of stand to protect from rutting issues. A third potential retention area would be in the center of the stand where there is a higher component of Sugar Maple and Beech. Retention acreage may exceed the 10% guideline. Access stand from the west (Stand 25) and/or from the east (Stand 55).</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked stand of aspen, deciduous, and coniferous species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>38 52120038-Cut</b>	37.9	6139 - Mixed Lowland Forest	Sawtimber Well	90	Unspecified	Harvest	Clearcut with Retention	6139 - Mixed Lowland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest the higher ground in center of Stand 38 to regenerate. Leave any hemlock and White Pine, which is insignificant in volume, for stand structure diversity. Cutting during summer or winter conditions with tracked equipment to minimize soil rutting concerns. Leave the higher ground area to the south as stand retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a moderate to well stocked stand of lowland aspen, deciduous, and coniferous species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>69 52120069-Cut</b>	7.7	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	61	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Remove 1/3 of the Red Pine by cutting every third row. May need to mark rows and/or individual trees. Do not cut the hardwood within the stand to discourage beaver activity. Access stand through private property either from the east or west.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Consult with Forest Health specialist regarding possible HRD restriction and guidelines.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>81 52120081-Cut</b>	6.2	6112 - Lowland Aspen	Sawtimber Medium	90	Unspecified	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest stand to regenerate. No retention due to small stand size. Access the stand through private property from the south. Cut during winter or summer conditions with tracked equipment to minimize soil rutting concerns.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes a low to moderate stocked stand of lowland aspen and deciduous species.</p> <p><u>Other Comment:</u> Cutting this stand mainly because access has been obtained from private property owner to the south and to increase acreage and volume for sale with Stand 7. Relative low volume in stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Total Treatment Acreage Proposed: 666.7**



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 120  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2B	5C	2G	2H	3J	5E
522	479	9	33	Aspen		9	0	15	18	
191	85	0	106	Cedar			68		38	
12	12	0	0	Herbaceous Openland						
5	5	0	0	Low-Density Trees						
694	663	0	31	Lowland Aspen/Balsam Poplar		0	9			22
174	33	0	141	Lowland Deciduous			141			
684	205	256	224	Lowland Mixed Forest		256	204		19	
127	124	3	0	Lowland Shrub		3				0
16	16	0	0	Lowland Spruce/Fir						
29	29	0	0	Marsh						
161	107	7	48	Mixed Upland Deciduous		7			44	4
111	109	0	3	Northern Hardwood						3
12	12	0	0	Paper Birch						
221	213	8	0	Red Pine	8					
65	0	0	65	Tamarack			65			
30	30	0	0	Upland Mixed Forest						
17	17	0	0	Urban						
3,071	2,138	283	650	Total Forested Acres	8	275	487	15	120	29
	70%	9%	21%	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	2G: Too wet (sensitive soils, does not include access issues)	109	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Limited access through private which is fairly wet.							



## Report 4 – Site Conditions

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Year of Entry: 2023

2	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	125	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	18	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

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Year of Entry: 2023

8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> If access is obtained from private property owner, include stand with Stand 31 in sale.							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Also long-term retention for Stand 76.							
11	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention for stand 56.							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Let stand continue to convert to conifer stand to discourage beaver activity.							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 120  
Year of Entry: 2023

14	Unavailable	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention for stand 76.							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leave for next YOE when cutting adjacent stand. If cutting this YOE, maybe include stand 80.							
19	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 120  
Year of Entry: 2023

20	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	64	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	65	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	15	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b> If access is granted from private property owner to the east, include stand in sale with Stand 7 and 81. Difficult access across private property due to paved driveway, distance to state timber and the wet soil conditions.							
24	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	21	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	13	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
John Scheele : Examiner

Compartment: 120  
Year of Entry: 2023

26	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	14	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	259	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Address potentially cutting this area, or portions of this area, next YOE to break up larger stand.							
28	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Recommended retention from public comments during compartment review.							

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
<b>Comments</b>				





**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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	622 - Lowland Shrub	Nonstocked	3.8		Unspecified	No				
2	4134 - Aspen, Spruce/Fir	Sawtimber Well	14.8	90	Unspecified	N/A	Mostly aspen in the west part and more Red Maple in the east part of stand. Aspen is over mature and falling over. Birch is dying or dead and Balsam Fir is starting to break off. Only access to stand would be from private property to the east. Small drainage on east side of stand near boundary edge.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Red Maple	13	Log	12		Bigtooth Aspen	Low	>20 feet	Sapling
		Paper Birch	2	Log	13		Balsam Fir	Medium	Variable	Sapling
		Bigtooth Aspen	56	Log/XLog/Pole	17	90				
		Balsam Fir	20	Pole/Log/Sap	8					
		White Spruce	5	Log	14					
		Black Spruce	2	Pole	7					
		Northern White Cedar	2	Pole/Log	7					
3	122 - Road/Parking Lot	Nonstocked	1.1	0	Unspecified	No	Reed Road			
4	6121 - Tamarack	Poletimber Well	65.3	90	Unspecified	N/A	Some dying tamarack. Cedar is only about 40 feet tall but appears healthy. Some individual blowdown. Close to a log sized stand.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Northern White Cedar	35	Pole	7		Tag Alder	Medium	10 - 20 feet	Tall Shrub
		Tamarack	58	Pole/Log	8	90	Northern White Cedar	Low	>20 feet	Sapling
		Balsam Fir	5	Pole	7		Balsam Fir	Low	Variable	Sapling
		Paper Birch	2	Pole	6					
5	6120 - Lowland Cedar	Poletimber Medium	28.3	90	Unspecified	N/A	Significant blowdown with cedar overstory mortality. Full understory. Variable canopy closure from 25 to 100 percent.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Tamarack	40	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
		Black Spruce	10	Pole	7		Paper Birch	Medium	10 - 20 feet	Sapling
		Northern White Cedar	50	Pole/Sapling	6	90	Tag Alder	Medium	10 - 20 feet	Tall Shrub
							Willow spp.	Medium	10 - 20 feet	Sapling
6	6112 - Lowland Aspen	Poletimber Well	62.9	35	Unspecified	N/A	Some larger DBH aspen (14") which is dying or dead. Pockets of wetter spots with sapling sized trees. East side has more old cedar blowdown with sapling sized trees. Higher ground adjacent to Stand 7.			
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
		Balsam Poplar	25	Pole	7		Balsam Fir	Low	Variable	Sapling
		Quaking Aspen	58	Pole/Sapling	7	35	Paper Birch	Low	10 - 20 feet	Sapling
		Balsam Fir	5	Pole	6		Black Ash	Medium	>20 feet	Sapling
		Paper Birch	10	Pole/Sapling	5		Red Maple	Low	10 - 20 feet	Sapling
		Northern White Cedar	2	Pole	7		Northern White Cedar	Low	< 5 feet	Sapling
							Tag Alder	Low	10 - 20 feet	Tall Shrub





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
7	4134 - Aspen, Spruce/Fir	Sawtimber Well	15.1	80	Unspecified	N/A	Aspen is over mature and beginning to fall over. Fair amount of slash on ground with some spots of high regeneration. High ground ridges with low ground. Access to stand has been granted through private property to the south.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		35	Log/Pole	12		Quaking Aspen		Medium	>20 feet	Sapling
Quaking Aspen		40	Log	16	80	Balsam Fir		Medium	Variable	Sapling
Balsam Fir		15	Pole/Sapling	6		Red Maple		Medium	10 - 20 feet	Sapling
White Spruce		5	Log/Pole	10		Beech		Low	10 - 20 feet	Sapling
Paper Birch		5	Pole	6		White Ash		Low	10 - 20 feet	Sapling
						Tag Alder		Low	>20 feet	Tall Shrub
8	6112 - Lowland Aspen	Sapling Medium	8.7	15	Immature	N/A		Old cedar blowdown area with high regeneration of mixed species. 10 - 20 feet high regeneration with about 75% canopy closure.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>			<b>Density</b>	<b>Avg. Height</b>
Quaking Aspen		35	Sapling	1	15	Red Osier Dogwood	Low		< 5 feet	Tall Shrub
Balsam Poplar		5	Sapling	1		Tag Alder	Medium		5 - 10 feet	Tall Shrub
Paper Birch		30	Sapling	1		Black Ash	Medium		5 - 10 feet	Sapling
White Spruce		20	Sapling	1		Willow spp.	Medium		10 - 20 feet	Sapling
Balsam Fir		5	Sapling	1		Cattail spp.	Low		Unspecified	Non-Wood
Northern White Cedar		5	Pole/Log	9		Northern White Cedar	Medium		< 5 feet	Sapling
9	622 - Lowland Shrub	Nonstocked	2.0		Unspecified	No				
10	623 - Emergent Wetland	Nonstocked	5.3		Unspecified	No	Large beaver den in center.			
11	622 - Lowland Shrub	Nonstocked	2.0		Unspecified	No				
12	6112 - Lowland Aspen	Poletimber Well	156.4	38	Unspecified	N/A	Drainage running northwest in center of stand. Pockets of low ground, lowland shrubs. Areas of low and higher timber volumes. Various level of soil wetness and cover type. Nice deer blind on wheeled platform just northeast of section center. Old wooden bridge over drainage in SWSE quarter.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling/Pole	4		Balsam Fir		High	10 - 20 feet	Sapling
Paper Birch		15	Sapling/Pole	4		Tag Alder		Medium	10 - 20 feet	Tall Shrub
Quaking Aspen		58	Pole/Sapling	6	38	Black Ash		Medium	>20 feet	Sapling
Balsam Fir		15	Sapling/Pole	3		Red Maple		Medium	10 - 20 feet	Sapling
Black Ash		2	Sapling	3						
13	6112 - Lowland Aspen	Poletimber Well	69.1	28	Unspecified	N/A	Stand appears slightly wetter than stand to the west. Pockets of low timber volume. Elevated deer blind in southwest corner of stand.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling/Pole	4		Balsam Fir		Low	10 - 20 feet	Sapling
Quaking Aspen		50	Pole/Sapling	5	28	Tag Alder		High	10 - 20 feet	Tall Shrub
Paper Birch		25	Sapling/Pole	4		Red Osier Dogwood		Medium	5 - 10 feet	Tall Shrub
Balsam Fir		10	Pole/Sapling	5		Willow spp.		High	10 - 20 feet	Tall Shrub
Black Ash		5	Pole/Sapling	5		Black Ash		Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
14	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.1	65	Unspecified	N/A	Wet drainage area.																																																												
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16	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	26.4	80	111-140	N/A	Low quality timber with aspen and birch dying out.																																																												
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17	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	64.9	90	111-140	N/A	Some larger DBH spruce, Red Maple and aspen trees. Scattered XL sized, very tall White Pine. Pockets of wet soils and pockets of light canopy with fir regeneration in north part of stand. Private property to the south was clearcut in 2010. Drainage area in southwest corner of stand.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**22** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 41.7 90 111-140 N/A Producer did not cut last YOE. Aspen over maturing and dying out. Birch dying out. Some nice, tall White Spruce. Some larger DBH hardwood and spruce trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	11		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	10	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Quaking Aspen	30	Log/Pole	14	90	White Spruce	Low	< 5 feet	Sapling
Balsam Fir	10	Pole/Sapling	5		White Ash	Low	5 - 10 feet	Sapling
White Spruce	28	Log/Pole	12		Tag Alder	Low	10 - 20 feet	Tall Shrub
Northern White Cedar	2	Pole/Log	8					

**23** 4130 - Aspen Sawtimber Well 79.9 90 Unspecified N/A Some larger DBH aspen with trunk rot. Fair amount of fir and aspen slash and blowdown occurring. Significant blowdown along west boundary adjacent to private property. Existing blue line in along south boundary. Areas of wet soils and drainages in stand with drainages getting steeper near river. Private property to the west was clearcut in 2010. Access has been granted by private property owner to the south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	11		Balsam Fir	High	Variable	Sapling
White Ash	5	Pole	7		Beech	Low	5 - 10 feet	Sapling
Quaking Aspen	50	Log/XLog	16	90	White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole/Log	8		White Ash	Low	5 - 10 feet	Sapling
White Spruce	2	Log/Pole	11					
Bigtooth Aspen	15	Log/XLog	16					
Northern White Cedar	2	Pole/Log	8					
Sugar Maple	2	Log/Pole	12					
Basswood	2	Log/Pole	11					
Paper Birch	2	Pole/Log	9					

**24** 4139 - Aspen, Mixed Deciduous Poletimber Well 158.6 38 Unspecified N/A Stand is variable between upland and lowland and vegetation size and species. Close to sapling stand in areas. Pockets of lowland shrub within stand. 2 foot high cedar stumps in spots. May want to breakup stand next YOE.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Sapling	3		Cherry (spp.)	Low	5 - 10 feet	Sapling
Quaking Aspen	48	Pole/Sapling	5	38	Willow spp.	Medium	10 - 20 feet	Tall Shrub
Balsam Poplar	10	Pole/Sapling	5		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	5					
Black Ash	5	Sapling	3					
White Spruce	2	Pole/Sapling	5					
White Ash	10	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>25</b>	6112 - Lowland Aspen	Sawtimber Well	49.3	95	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	12	
Quaking Aspen	46	Log/Pole	12	95
Balsam Fir	15	Pole/Sapling	5	
White Spruce	5	Log/Pole	10	
Northern White Cedar	15	Pole/Log	8	
White Pine	2	Log	16	
Hemlock	2	Log	14	
Balsam Poplar	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	Low	10 - 20 feet	Sapling
Ash (spp.)	Medium	10 - 20 feet	Sapling
Striped Maple	Low	>20 feet	Sapling
Red Maple	Medium	>20 feet	Sapling

Stand was prescribed last YOE but not cut by producer. Most of the stand seems operable. Higher ground in center of stand. Some large over-mature aspen with trunk rot. Blowdown of cedar and aspen occurring now and in the past. A few scattered XL sized White Pine. Old blue line is still visible.

<b>26</b>	622 - Lowland Shrub	Nonstocked	3.3		Unspecified	No	
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<b>27</b>	6139 - Mixed Lowland Forest	Sawtimber Well	442.1	85	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Log	8	
Quaking Aspen	38	Log	11	85
Paper Birch	5	Pole/Log	8	
Balsam Fir	5	Pole	7	
White Spruce	33	Log/Pole	12	
Northern White Cedar	4	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
White Ash	Low	>20 feet	Sapling
Quaking Aspen	Low	5 - 10 feet	Sapling

Large, diverse stand with fairly difficult and limited access. Areas of lowland conditions and areas of high ground conditions with high timber volumes. Southwest part of stand has lots of balsam slash. Aspen is over mature with some trunk rot. Nice, tall spruce with some falling over. Birch dying out as well. Drainage along northwest edge of stand and a couple within stand leading to the Carp River. Protect drainages during harvest.

<b>28</b>	6112 - Lowland Aspen	Poletimber Well	14.6	30	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	58	Pole/Sapling	5	30
Balsam Fir	20	Pole/Sapling	6	
Black Ash	10	Sapling	2	
Red Maple	10	Pole/Sapling	5	
Paper Birch	2	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Medium	5 - 10 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	10 - 20 feet	Tall Shrub

Lots of slash. Smaller DBH trees and mostly wetter soil compared to surrounding stand.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																				
<b>29</b>	6112 - Lowland Aspen	Sawtimber Well	99.7	80	Unspecified	N/A	Stand was not cut from last YOE. Producer decided to return the sale. Blowdown and slash occurring. Some larger DBH aspen, which is overmatured with trunk rot. Pockets of high and low ground with Balsam Fir understory slash.																																																																																				
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<b>30</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	124.7	50	Unspecified	N/A	Poor quality aspen. Most of the northern part of stand is fairly wet. Some higher ground in south part with Red Maple pole timber. Low timber volume in areas. Canopy closure is variable to full on higher ground areas. Small pockets of significant cedar blowdown in areas.																																																																																				
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<b>31</b>	42110 - Planted Red Pine	Sawtimber Well	32.1	69	171-200	N/A	Stand was not thinned last YOE. Tall, good quality trees. Scattered rock piles within stand. BA is 178.																																																																																				
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<b>32</b>	6120 - Lowland Cedar	Sawtimber Well	46.6	95	Unspecified	N/A	This stand was part of a prescribed harvest along with stand 25 last YOE. Producer decided to turned sale back in and not cut it. 52-135-14 Gill Road Mix. Fairly wet. Variable cedar DBH from 4 to 12 inches. Pockets of cedar blowdown with high aspen regeneration. Aspen is over mature.																																																																																				
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**33** 6122 - Black Spruce Poletimber Well 16.4 70 Unspecified N/A Black Spruce becoming more dominate.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole	7	
Balsam Poplar	10	Pole	7	
Black Spruce	50	Pole/Sapling	7	70
Northern White Cedar	36	Pole/Sapling	6	
White Pine	2	Log	12	

**34** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 18.0 100 141-170 N/A

Higher aspen cover type in east part and higher hardwood cove type in west part. Aspen and fir are beginning to blow over. Aspen has trunk rot. Signs of old beaver damage. A few larger DBH Sugar Maple and aspen. BA is approximately 150. Terrain is fairly hilly with a couple drainages/seeps flowing north to the Carp River with fairly steep slopes. Only access would be from the south across private/tribal property.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	21	Log	14	100
Basswood	20	Log	12	
Paper Birch	2	Log/Pole	10	
Quaking Aspen	29	Log/XLog	17	100
Balsam Fir	20	Pole/Log	8	
Beech	2	Log	12	
White Ash	2	Log/Pole	11	
White Spruce	2	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Quaking Aspen	Low	5 - 10 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
White Ash	Low	5 - 10 feet	Sapling
Sugar Maple	Low	10 - 20 feet	Sapling

**35** 6112 - Lowland Aspen Poletimber Well 72.7 28 Unspecified N/A

Some dead aspen saplings in understory. Pocket of hemlock in north part of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	3	
Paper Birch	15	Sapling/Pole	4	
Quaking Aspen	40	Pole/Sapling	5	28
Balsam Poplar	13	Pole/Sapling	5	
Bigtooth Aspen	10	Pole/Sapling	6	
Pin Cherry	5	Sapling	3	
White Ash	2	Sapling	3	
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Red Maple	Medium	5 - 10 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Sugar Maple	Medium	5 - 10 feet	Sapling
Willow spp.	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
<b>36</b>	4113 - R.Maple, Conifer	Sawtimber Well	66.5	93	111-140	N/A	Upland ridge running west to east. Fairly diverse stand. Lots of multi-stemmed, branchy hardwood trees. Some dying, overmatured aspen. White Birch also dying out. Balsam Fir blowdown spots occurring. There is a 50 to 75 foot wide wet, low spot in west part of stand. Higher Red Maple component in west part of stand. Access to the stand is fairly difficult.																																																																		
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<b>37</b>	4137 - Aspen, Birch	Sapling Well	17.0	5	Immature	N/A	Stand cut in 5/2016. 52-151-13 Otter Hardwood.																																																																		
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<b>38</b>	6139 - Mixed Lowland Forest	Sawtimber Well	132.7	90	Unspecified	N/A	Mostly low ground with a higher ground area in the center of stand. Some XL-sized aspen, maple and spruce with the aspen and birch dying out. Blowdown occurring with some slash. Low ground has significant cedar blowdown and very wet.																																																																		
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<b>39</b>	4110 - Sugar Maple Association	Sawtimber Well	19.1	90	81-110	N/A	Thinned in 5/2016. 52-151-13 Otter Hardwood. Basal area is 87.																																																																		
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<b>40</b>	42110 - Planted Red Pine	Sawtimber Well	15.6	64	141-170	N/A	Thinned in 10/2017. Nice quality, tall Red Pine. Aspen is in the northwest corner of stand. Basal area is 143.																																																																	
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<b>41</b>	4193 - Birch, Aspen	Poletimber Well	11.9	25	Unspecified	N/A	Dead willow spp. in the understory. Nice birch component within the stand. Stand is close to a lowland stand. Bam and low ground along the north and east boundaries.																																																																	
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<b>42</b>	4110 - Sugar Maple Association	Sawtimber Well	13.1	85	81-110	N/A	Stand cut in 5/2016. 52-151-13 Otter Hardwood. Nice quality maple and hardwood trees. Tree stand along east boundary.																																																																	
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<b>43</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	109.3	90	Unspecified	N/A	Variable DBH for aspen and cedar. Some larger DBH aspen and cedar with slash occurring and pockets of blowdown. Birch dying or dead. Higher ground has higher volumes. Higher ground along south and southwest boundary. Wetter ground in northeast part of stand. Scattered large White Pine stumps. Stand to the west appears wetter with thicker understory regeneration. Old buried 'Michigan Bell' line running through stand which is under water in spots. Too Wet site condition with limited access.																																																																	
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<b>44</b>	6119 - Mixed Lowland Deciduous Forest	Sapling Well	10.8	28	Unspecified	N/A	Cedar stumps in stand that are 2 to 3 feet tall.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	622 - Lowland Shrub	Nonstocked	38.5		Unspecified	No	Unusual. West part of stand is very dry in the month of December.

46	4130 - Aspen	Poletimber Well	110.1	38	Unspecified	N/A	A few scattered log-sized hardwood trees. Ash appears to be healthy.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling/Pole	4		Balsam Fir	Medium	10 - 20 feet	Sapling
Paper Birch	8	Sapling/Pole	4		White Ash	Medium	10 - 20 feet	Sapling
Quaking Aspen	50	Pole	7	38	Sugar Maple	Medium	>20 feet	Sapling
Balsam Fir	2	Pole/Sapling	5		Red Maple	Medium	>20 feet	Sapling
Bigtooth Aspen	18	Pole/Sapling	7		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
White Ash	8	Pole/Sapling	6		Tag Alder	Low	10 - 20 feet	Tall Shrub
Sugar Maple	3	Pole/Sapling	5		Willow spp.	Low	>20 feet	Sapling
White Spruce	2	Pole	6		Red Osier Dogwood	Low	< 5 feet	Tall Shrub
Northern White Cedar	2	Pole	8					
Balsam Poplar	2	Pole/Sapling	5					

47	622 - Lowland Shrub	Nonstocked	7.8		Unspecified	No	
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48	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.6	80	81-110	N/A	High ground with steep slopes surround be lowland. A few scattered XL White Pine and spruce with birch dying out. Slash occurring.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	11	80	Balsam Fir	High	10 - 20 feet	Sapling
Paper Birch	26	Log	14		Bigtooth Aspen	Low	10 - 20 feet	Sapling
Bigtooth Aspen	15	Log/Pole	12					
White Spruce	2	Log	11					
Balsam Fir	10	Pole/Sapling	6					
Northern White Cedar	5	Log/Pole	10					
White Pine	2	XLog/Log	18					

49	4130 - Aspen	Poletimber Well	14.0	38	Unspecified	N/A	Lots of saplings.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	5		Balsam Fir	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	50	Pole/Sapling	6	38	Red Maple	High	>20 feet	Sapling
Balsam Fir	10	Pole/Sapling	5					
Quaking Aspen	15	Pole/Sapling	5					
Beech	5	Log	14					

50	623 - Emergent Wetland	Nonstocked	4.2		Unspecified	No	
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<b>51</b>	6119 - Mixed Lowland Deciduous Forest	Sapling Well	22.0	40	Unspecified	N/A	Very poor quality stand. A lot of dead ash in overstory. Northeast corner is a little drier with more Balsam Fir. Narrow, upland ridge runs along the entire north part of stand, adjacent to the lowland stands.																																																								
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<b>52</b>	6112 - Lowland Aspen	Sapling Well	8.6	20	Immature	N/A	Previous conifer stand that has blown over. Significant slash.																																																								
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<b>53</b>	42110 - Planted Red Pine	Sawtimber Well	52.7	65	111-140	N/A	Stand was thinned in 1/2018. Small drainage flows through the south part of the stand to the Carp River. Pockets of full hardwood understorey. BA is 128.																																																								
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<b>54</b>	622 - Lowland Shrub	Nonstocked	11.4	0	Unspecified	No	Carp River																																																								
<b>55</b>	4133 - Aspen, Mixed Pine	Poletimber Well	25.5	28	Unspecified	N/A	Pockets of uncut aspen in low areas from last treatment.																																																								
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<b>56</b>	6112 - Lowland Aspen	Sapling Well	36.9	4	Immature	N/A	Stand was cut in 8/2016. 52-147-13 Munger Road Aspen. Fair amount of cedar blowdown from previous harvest which was left uncut.																																																								
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<b>57</b>	3303 - Mixed Low Density Trees	Nonstocked	5.2		Unspecified	No	Upland site surrounded by a steep slope to lowland on 3 sides. Converting to a forested stand of conifer and deciduous species. Should have been planted to Red Pine with adjacent stand. Possible bear den dug into the slope along the north boundary of the stand.																																																								
<b>58</b>	6120 - Lowland Cedar	Sawtimber Well	30.9	90	Unspecified	N/A	Carp River flood plain. Slash in areas. DBH is variable in cedar and spruce. Pockets of low canopy closure with high hardwood regeneration. Pockets of lowland shrub. Some dead cedar along river banks.																																																								
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<b>59</b>	6120 - Lowland Cedar	Sawtimber Well	7.3	90	Unspecified	N/A	Carp River runs through stand. Variable cedar DBH from 4 to 14 inches. North part of stand has more dying cedar with heavy ash understory. Some blowdown in north part as well. High ground on east side with large Big Tooth Aspen.																																																								
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<b>60</b>	622 - Lowland Shrub	Nonstocked	13.4		Unspecified	No	Carp River flood plain.																																																								



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<b>61</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.4	95	Unspecified	N/A	High ground with slightly hillier terrain going west down to river. Some XL maple, aspen, spruce trees with aspen dying out. Balsam Fir also dying out and falling over. Some individual scattered White Pine and oak trees along the west boundary.																																																
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<b>62</b>	310 - Herbaceous Openland	Nonstocked	3.8		Unspecified	No	South part of stand is more low density mixed forested.																																																
<b>63</b>	4110 - Sugar Maple Association	Sawtimber Well	5.2	90	81-110	N/A	Thinned in 6/2016. A handful of trees were left uncut from previous harvest in the southeast corner of stand.																																																
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<b>64</b>	6120 - Lowland Cedar	Poletimber Medium	56.5	105	Unspecified	N/A	Poor quality cedar with many dead tops. Recent significant blowdown with pockets of no overstory.																																																
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<b>65</b>	4130 - Aspen	Poletimber Well	56.2	39	Unspecified	N/A	Pocket of lowland in northeast corner of stand with scattered x-sized White Pine. Leave white pine for legacy trees. May want to reclassify next YOY. Some old trash along boundary with stand 71. Old Bell Systems underground cable runs through the stand.																																																
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66	4133 - Aspen, Mixed Pine	Poletimber Well	16.3	38	Unspecified	N/A	Red Pine DBH range from 6 - 12 inches.																																						
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67	42110 - Planted Red Pine	Sawtimber Well	40.8	61	111-140	N/A	Stand thinned in 11/2017. Pockets of hardwood sapling/poles. Basal area is 116.																																						
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68	622 - Lowland Shrub	Nonstocked	2.8	0	Unspecified	No																																							
69	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	7.7	61	171-200	N/A	Nice, tall Red Pine of good quality which has never been thinned. DBH range from 5 to 12 inches. Some Red Pine dying. Pockets of high BA. Hard to see individual rows in some areas. BA is 184.																																						
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70	42110 - Planted Red Pine	Sawtimber Well	34.0	61	111-140	N/A	Stand thinned in 12/2017. Lots of old tin cans and glass scattered throughout the stand. Possibly an old camp in opening in northeast corner of stand but no foundation evidence. Variable DBH for Red Pine from 6 to 12 inches. Pockets of low Basal area with hardwood and fir regeneration. Current BA is 137.																																						
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71	42110 - Planted Red Pine	Sawtimber Well	37.9	64	111-140	N/A	Stand thinned in 10/2017. Nice quality trees. Basal area is 137.																																						
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72	310 - Herbaceous Openland	Nonstocked	8.3		Unspecified	No																																							





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<b>73</b>	4311 - Pine, Aspen Mix	Poletimber Poor	29.7	25	Immature	N/A	Individual pockets of hardwood and pine. Red Pine is open grown and branchy. Cherry species are dying out. Decent growth on the Red Pine. Very branchy maple trees. Aspen will make it until next YOE. Bell System underground telephone cable running through center of stand.																																																								
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<b>74</b>	622 - Lowland Shrub	Nonstocked	20.3		Unspecified	No	Carp River																																																								
<b>75</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	5.2	70	Unspecified	N/A	Pocket of log sized aspen in east part of stand. Beaver activity on aspen. Variable DBH for White Pine from 8 to 44 inches. Factor limit for BMP. Let stand continue to convert to conifer. Access to stand is unknow at this time.																																																								
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<b>76</b>	6112 - Lowland Aspen	Sapling Well	99.6	4	Immature	N/A	Regeneration is 10 to 20 feet tall currently. Stand harvest completed in 8/2017 (East part of stand was completed 9/2016 and west part completed in 8/2017). Munger Road Aspen 52-147-13. Stand retention includes the area adjacent to the Carp River.																																																								
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<b>77</b>	623 - Emergent Wetland	Nonstocked	5.8		Unspecified	No																																																									



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78	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	11.1	90	Unspecified	N/A	Fairly wet. Poor quality hardwood with some dead ash in overstory. Some large DBH Red Maple trees on the slightly higher ground. Blowdown occurring.																																																											
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79	6112 - Lowland Aspen	Sawtimber Well	8.8	83	111-140	N/A	This stand was identified as retention for Stand 76 last YO. Vet wet. Some larger DBH aspen. Blowdown occurring. Pockets of sapling/pole regeneration.																																																											
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80	4119 - Mixed Northern Hardwoods	Sawtimber Medium	7.4	80	51-80	N/A	Mostly open grown Sugar Maple. Some XL-sized Sugar Maple, which is very branchy. Pockets of low canopy.																																																											
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81	6112 - Lowland Aspen	Sawtimber Medium	6.2	90	Unspecified	N/A	Aspen is over mature and dying out. Blowdown is occurring with lower volume. Thick understory of Black Ash is spots. Canopy is closure to 75%. Access to stand through private property has been granted. Factor limit stand because of access issues.																																																											
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82	122 - Road/Parking Lot	Nonstocked	2.1	0	Unspecified	No	Reed Road.																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**83** 122 - Road/Parking Lot Nonstocked 5.8 0 Unspecified No Munger Road.

**84** 122 - Road/Parking Lot Nonstocked 7.8 0 Unspecified No Munger Road.

**85** 6120 - Lowland Cedar Sawtimber Well 21.5 105 Unspecified N/A Poor quality cedar and fairly wet. Lots of past blowdown but not as much as Stand 64.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Log/Pole	12		Red Maple	Medium	>20 feet	Sapling
Quaking Aspen	5	Log	14		Paper Birch	Medium	>20 feet	Sapling
White Spruce	5	Log	12		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	50	Log/Pole	10	105	Black Ash	High	10 - 20 feet	Sapling
Hemlock	5	Pole/Log	8		Tag Alder	Low	10 - 20 feet	Tall Shrub

**86** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 3.6 90 111-140 N/A Some larger DBH spruce, Red Maple and aspen trees. Scattered XL sized, very tall White Pine. Pockets of wet soils and pockets of light canopy with fir regeneration in north part of stand. Private property to the south was clearcut in 2010. Drainage area in southwest corner of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	38	Log/Pole	12	90	Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	2	Pole	6		Quaking Aspen	Medium	10 - 20 feet	Sapling
Quaking Aspen	34	Log/XLog	17		Balsam Fir	High	Variable	Sapling
Balsam Fir	2	Pole	7		White Pine	Low	10 - 20 feet	Sapling
White Spruce	18	Log/Pole	12		Beech	Low	5 - 10 feet	Sapling
Northern White Cedar	2	Pole/Log	8					
White Pine	2	XLog	20					