



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52113

Entry Year 2024

Acreage: 1,430

County Emmet

Management Area: Chandler Hills

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**Stand Examiner:** Tricia St. Pierre

## Legal Description:

Emmet County, Bear Creek Township.

T34N R05W

Sec 21: E1/2SE, SWSE except that which lies westerly of the railroad tracks

Sec 26: S1/2NW, N1/2NESW

Sec 27: W1/2NW, SW, SWSE

Sec 28: E1/2 except that which lies westerly of the railroad tracks

Sec 33: NENE except that which lies westerly of the railroad tracks

Sec 34: all

Sec 35: SW

## Identified Planning Goals:

Planning goals are aimed at providing the protection, integrated management, and responsible use of the resources described herein, as well as preserving and enhancing the health and productivity of state forest land. These goals of providing a diverse and undiminished natural resource base are for the social, recreational, environmental, and economic benefits of the State of Michigan and its inhabitants. Management decisions have been made with consideration to sustainability and diversity of the plants, animals, other natural elements, and recreational activities on state land.

Addressing forest health concerns including invasive species shall be done whenever and wherever appropriate to do so.

## Soil and topography:

Soils are generally flat to slightly sloping across the main body of this compartment. Soil types are dominated by mucks (70%) and sands (28%) with very few loam types (<2%). The mucks are saturated and flat, though hummocky providing microclimates for niche species. The sands are generally flat to gently sloping (66% of sand types have 0-6% slope), but there are some more severe slopes of 6-25% (accounting for 24% of the sands), and even fewer with 25-60% gradient (accounting for <10% of the sands). Loams showcase slopes of 2-18%, occupying sites on the edges of the muck types. The main body, dominated by flat ground on muck, supports unclassified lowland habitat types occupied by cedar with black spruce, larch, balsam fir, scattered white pine and occasional hemlock. Aspen, red maple, yellow birch, and paper birch are also present in lesser amounts. The subcanopy is dominated by lowland shrubs, particularly tag alder and willow, with lesser amounts of dogwood, holly, nannyberry, leatherleaf, and other lowland shrubs. PARVCo habitats are on the periphery of these lowlands atop sandy soils, often seasonally inundated themselves but more capable of supporting deciduous trees and higher volumes of white pine. The subcanopy is influenced by the water table and fluctuates between upland and lowland tree and shrub species.

The south edge contains an area of higher, drier ground with decent slopes, typing out as AFO and AFOCa habitat types on loamy sands, supporting hardwood and white pine.

The removed eastern acreage is upland and undulating with some steep slopes. It is dominated by Blue Lake Loamy Sands and AFO/AFOCa habitat types. It is capable of producing quality northern hardwood and aspen.

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

Ownership is largely residential, though portions of the south edge of the compartment abut other State Forest Land. The west edge runs along active railroad tracks, except in the southwest where a narrow strip of private property sits between the railway and State Land. Above ground utility lines bisect sections 21 and 35.

Residential development has increased in recent years with a boom in new home construction increasing recreational pressures in this compartment. Farming is becoming less prominent as properties become subdivided and developed.

## Unique Natural Features:

There are numerous recorded and potential unique natural features within and around this compartment, including Blanding's Turtle, False Violet, Little Brown Bat, Blunt-lobed Woodsia, and Osprey. In addition, a Rich Conifer Swamp natural community and a Natural River are within this compartment.

## Archeological, Historical, and Cultural Features:

There are no reported Historical or Archeological features within this compartment, though the potential exists.

## Special Management Designations or Considerations:

The Bear River is a Natural River and should be considered when making management decisions that could influence the hydrological or botanical features within the Bear River corridor and floodplain. Best Management Practices and adequate Riparian Management Zones should be considered with all management.

There is a Northern Hardwood Regeneration Research plot in Section 26 spearheaded by Michigan State University. The stand is just one of many across the state to gauge efficacy of various forest management techniques in begetting desirable hardwood regeneration.

The Bear River Swamp Ecological Reference Area is within this compartment, representative of a Rich Conifer Swamp natural community. Management activities should align with recommendations within the related ERA plan.

Invasive species are a major threat to the native flora and fauna and hydrologic functions of this compartment. Steps should be taken to identify, remove, and/or control invasive species, especially those along the river corridor with the capability of being transferred and further dispersed downstream. Botanical invasive species observed within this compartment include: Japanese knotweed, spotted knapweed, honeysuckle, autumn olive, glossy buckthorn, common buckthorn, Japanese barberry, European spindletree, exotic phragmites, scotch pine, Canada thistle, and reed canary grass. Other exotics not known to be invasive include: helleborine and mullein.

Further surveys should be alert to swallow-wort as it has been identified in other places along the Bear River.

Illegal ORV use and dumping continue to be issues within this compartment.

### **Watershed and Fisheries Considerations:**

This compartment is within the Bear River/Walloon Lake watershed. The Bear River and its tributaries are cold water trout streams, and excessive beaver development or soil inputs should be discouraged. The proposed treatments include appropriate buffers from the stream, and appropriate BMP's should be used in wet areas.

### **Wildlife Habitat Considerations:**

This compartment contains mostly lowland habitat associated with the Bear River. This lowland complex supports black bear, white tailed deer, and various furbearers and amphibians. Stands containing mature aspen have been nominated to provide early successional habitat that will benefit woodcock, grouse, and white tailed deer.

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

Sections 21, 26-28, & 33-35, T34N-R5W, Emmet County

The nearest active sand/gravel pit is two miles to the north. Evidence of several other small, former pits occur in the area. The compartment appears to be predominantly low wetlands with limited potential for surface mine development. The very southern portion of Sec 34 has the best potential for sand & gravel resources. Limestone from the Traverse Formation was historically mined in the Bay Shore area west of Petoskey. Bedrock limestone is likely too deep beneath the compartment to have any commercial value. A small portion of the compartment has mineral rights that are currently leased for oil & gas exploration and production. These parcels are being held under lease by production occurring far from the compartment under a legacy agreement. There is no other known potential for oil & gas beneath the compartment. There is no known potential for metallic minerals in this part of the state.

Comments submitted by Peter Rose 1/19/2022.

### **Vehicle Access:**

Vehicular access is limited in this compartment. Fragile, saturated soils are not conducive to promoting roads or trails. Maintained County roads provide access to the perimeter, but the railway on the west edge limits direct access; seasonal roads and steep terrain limit access to the removed eastern portion of the compartment. Water features further limit potential interior vehicular access.

### **Survey Needs:**

There are no survey needs at this time.

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

Snowmobile Trail 760 runs through the northern portion of this compartment. Associated Parking Area 157 is on private property at the Snowmobile Club Headquarters at the southeast corner of Cedar Valley Road and Evergreen Trail.

The Bear River receives recreational activity such as fishing and kayaking, though access and river navigability can be somewhat limiting in this section of river. Deer hunting remains a recreational pursuit across the compartment.

There is illegal ORV use in sections 26 and 34, especially along the utility lines corridor and along undesignated trails into the adjacent hardwood stands.

### **Fire Protection:**

There are very few volatile fuel types within this compartment, the highest risk being areas of upland grass and forbs. While fire may occur in lowland conifer swamps during extensive periods of drought, stand-replacing events are rare, occurring on 3,000 year intervals. Fire can be a tool in these lowland types for reestablishing the community type.

In the event of a fire, access may be challenging. Fires occurring in the swamp interior may only be accessible by foot, requiring a progressive hose lay from a stream, river, or engine.

### **Additional Compartment Information:**

Stand boundaries have been adjusted since the 2014 inventory cycle resulting in covertype changes, occasionally significant.

**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**

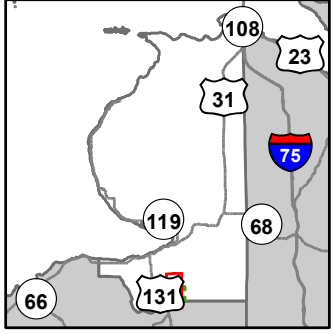
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

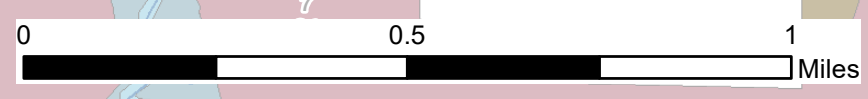
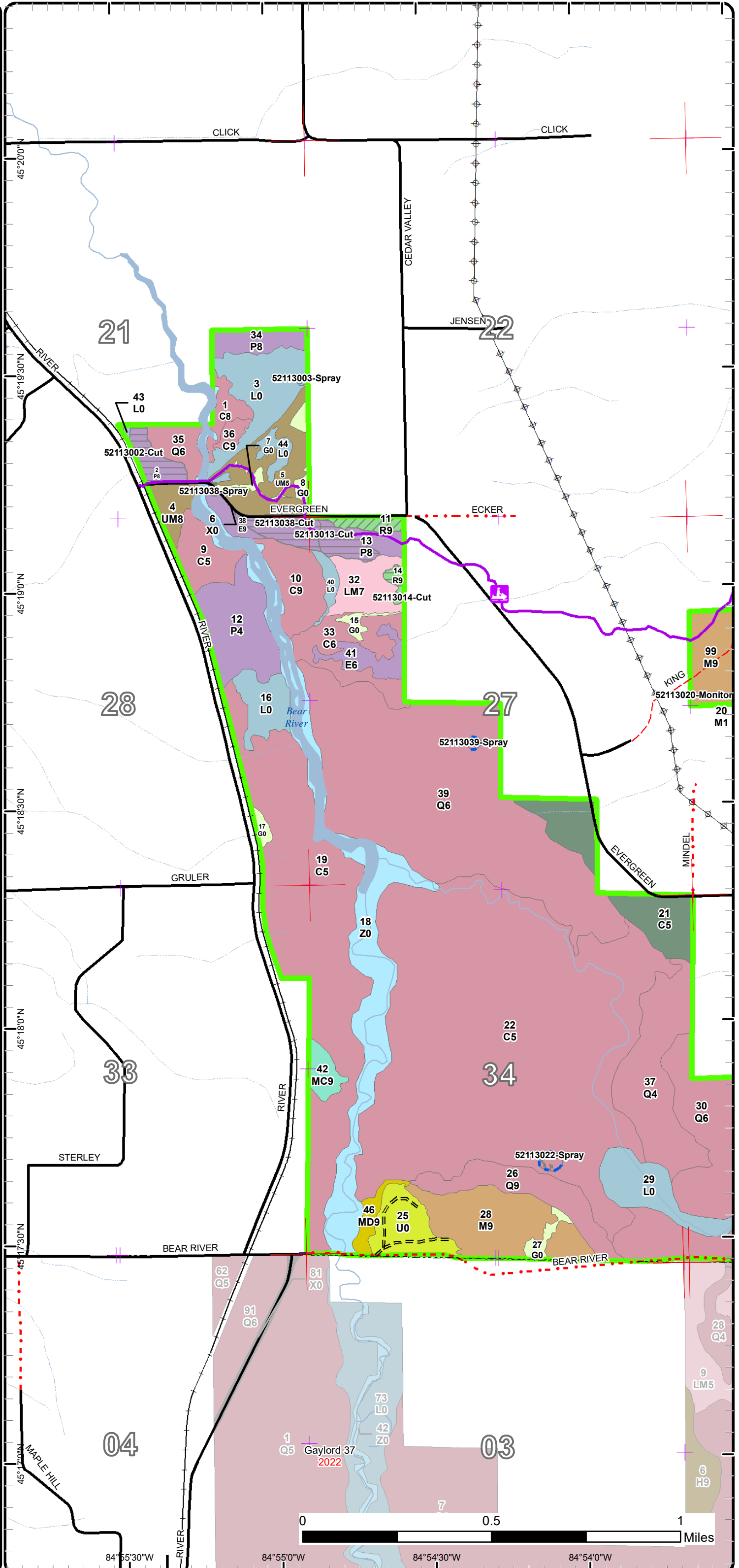


# Cover Type & Treatments Map

Compartment: 113  
 T34N, R05W, Sec. 21, 26-28, 33-35  
 County: Emmet  
 Unit: Gaylord  
 Mgmt Area: Chandler Hills  
 YOE: 2024  
 Acres: 1430 GIS Calculated  
 Examiner: Tricia St. Pierre  
 Map Revised: 11/15/2022  
 Map Phase: Post-Review



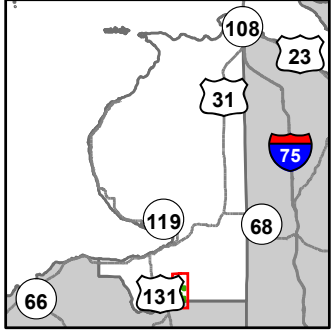
- Miris Corners
- Remonumented Section Corners
- Counties
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Active Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 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
- 500 - Water
- 622 - Lowland Shrub



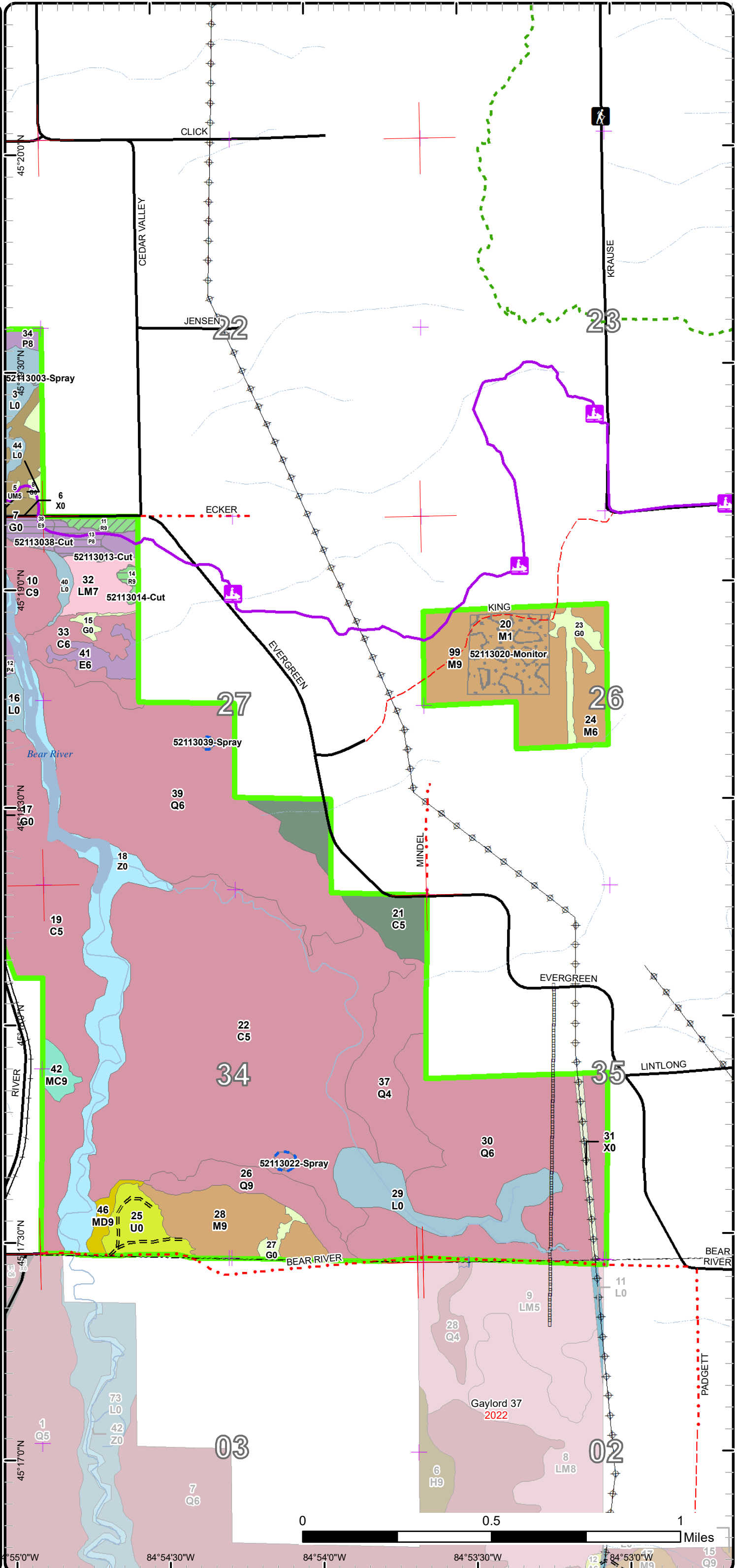
84°55'30"W      84°55'0"W      84°54'30"W      84°54'0"W

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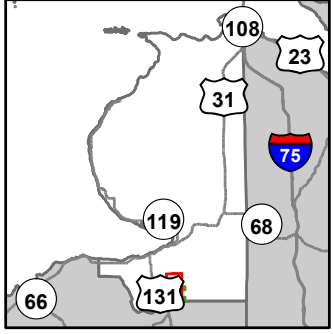


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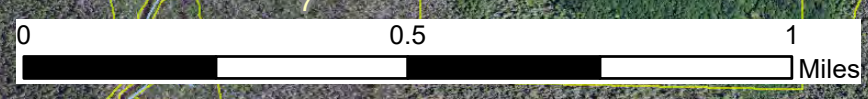
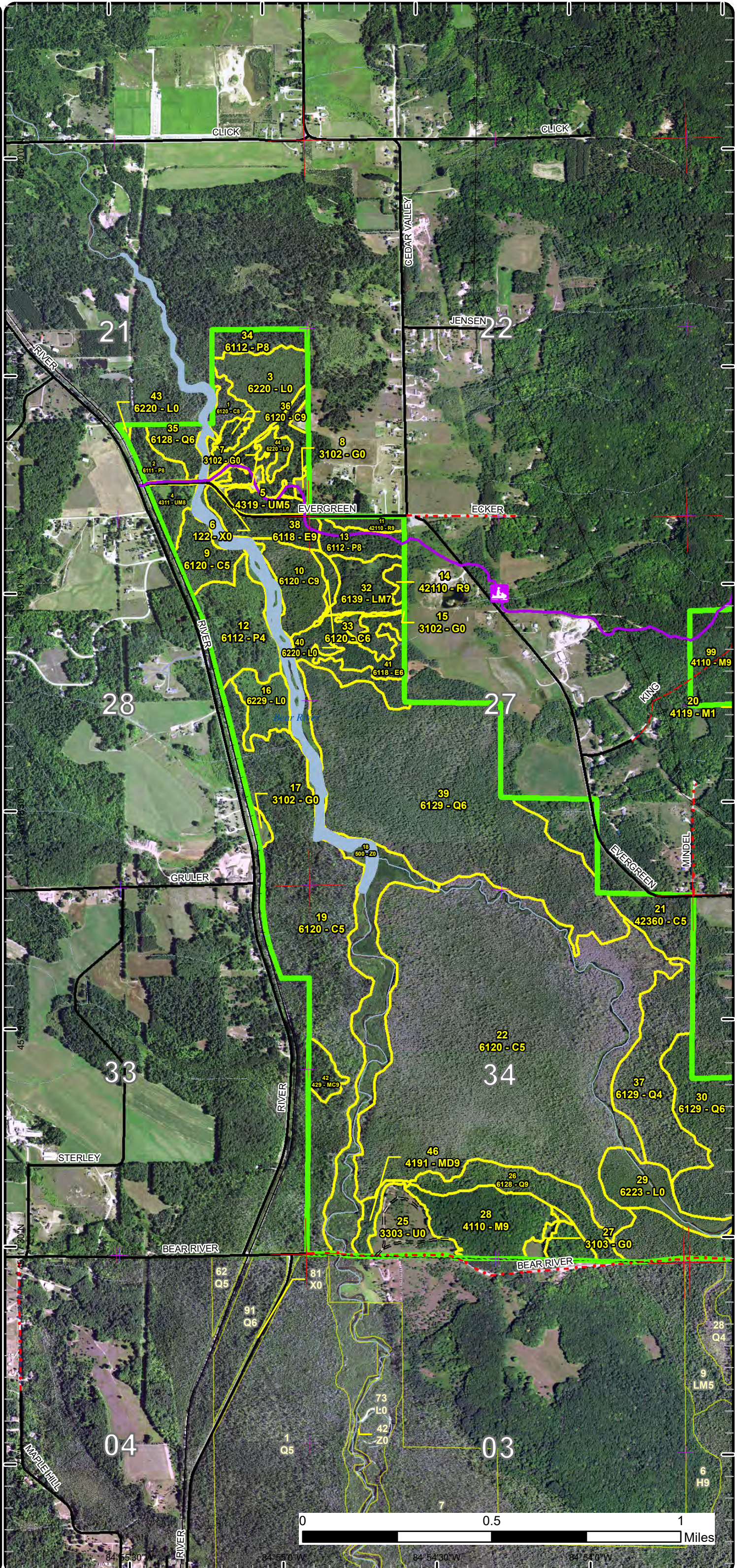
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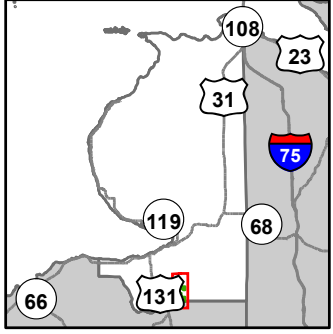
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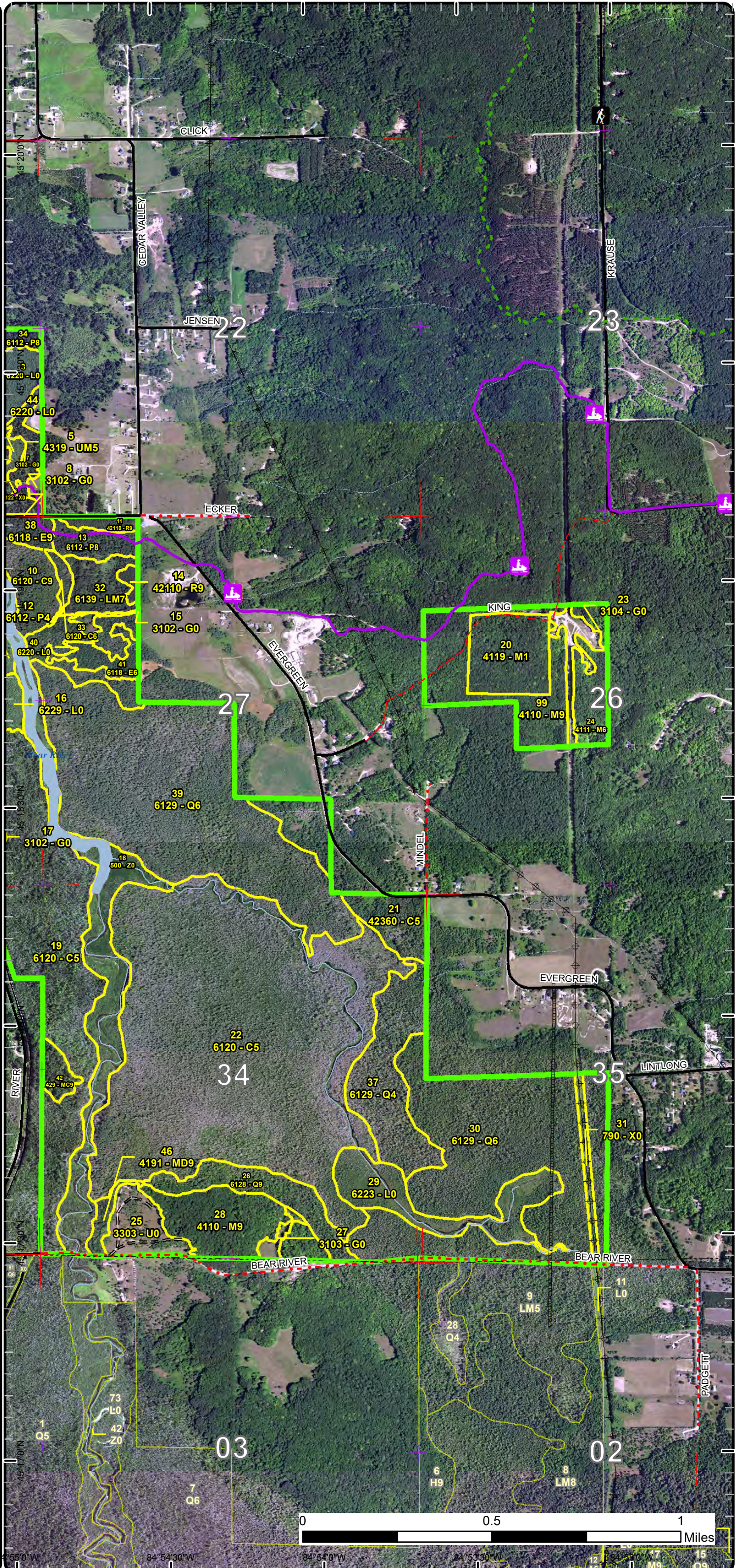
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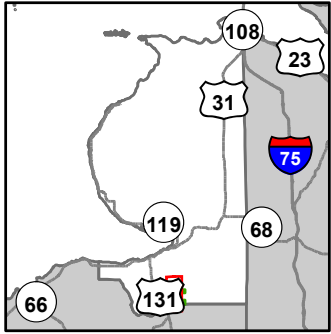
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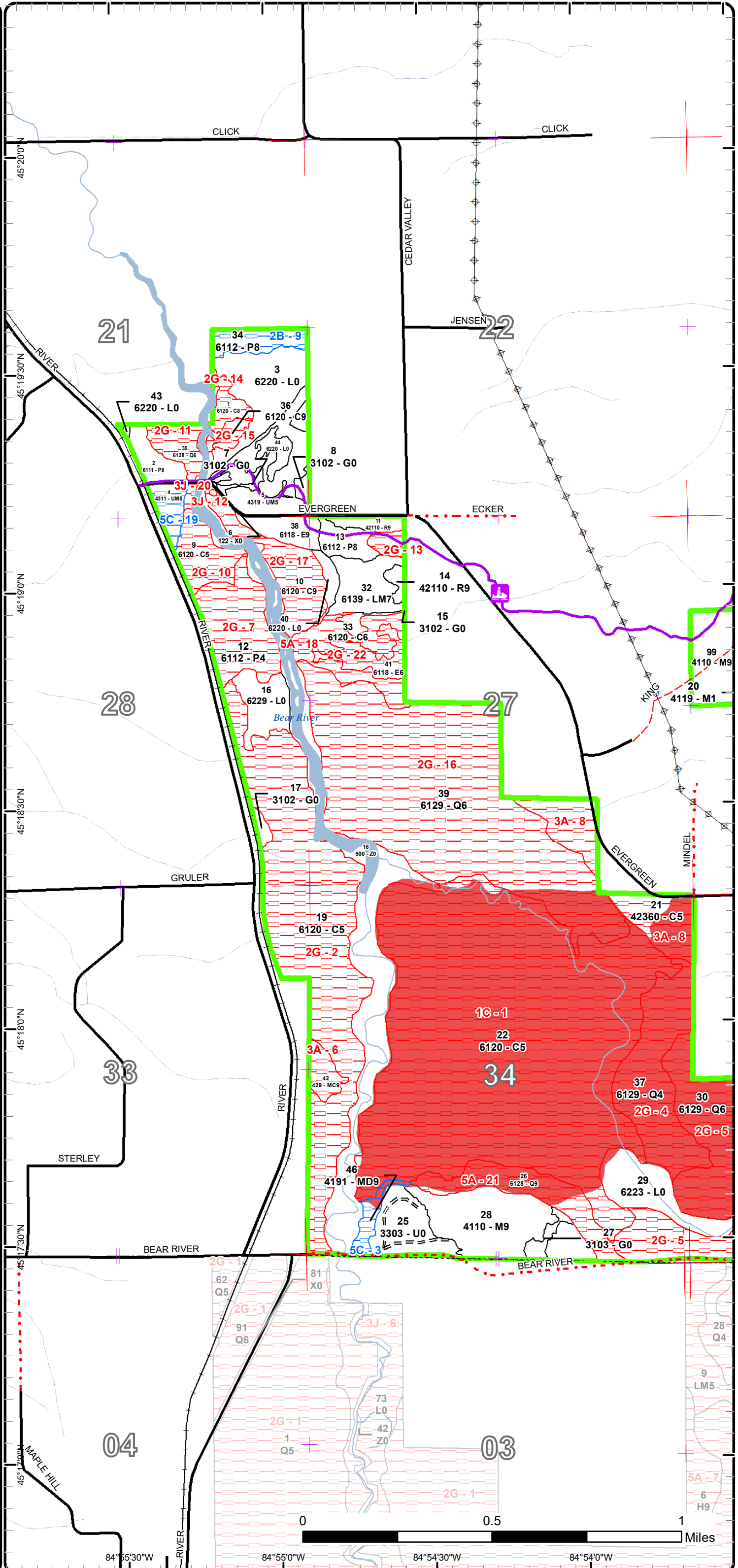


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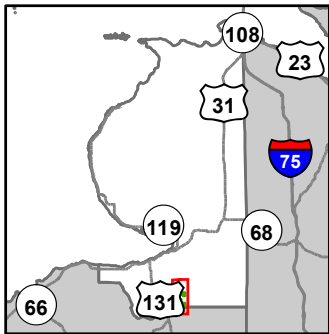


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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes

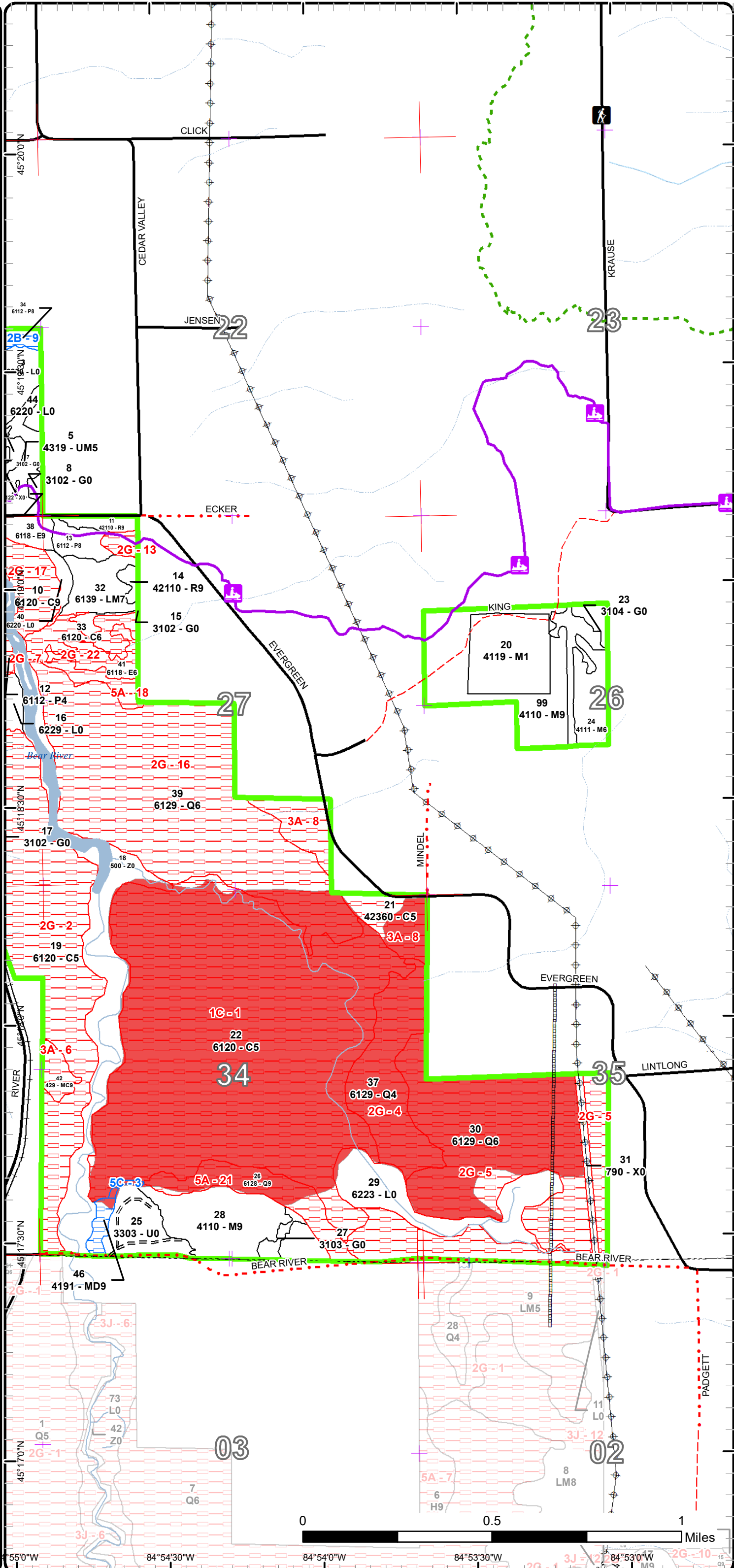


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Age Class

	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
Bare/Sparsely Vegetated	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	14	39	358	131	0	0	0	0	0	0	542
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Low-Density Trees	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	41	10	8	0	0	0	0	0	0	0	0	59
Lowland Conifers	0	0	0	0	0	0	0	0	78	329	0	0	0	0	0	0	0	0	406
Lowland Deciduous	0	0	0	0	10	0	0	13	0	0	0	0	0	0	0	0	0	0	23
Lowland Mixed Forest	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	15
Lowland Shrub	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	29	0	0	0	0	0	18	0	41	38	0	0	0	0	0	0	0	126
Red Pine	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6
Upland Mixed Forest	0	0	0	0	0	23	0	8	0	0	0	0	0	0	0	0	0	0	31
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
<b>Total</b>	<b>210</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>23</b>	<b>0</b>	<b>102</b>	<b>29</b>	<b>166</b>	<b>725</b>	<b>131</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>1430</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 113

Total Compartment Acres: 1,430

Commercial Harvest - 30  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Aspen/Balsam Poplar	15	0	0	0	0	0	0	0	0	15
Lowland Deciduous	9	0	0	0	0	0	0	0	0	9
Red Pine	2	0	0	0	4	0	0	0	0	7
<b>Total</b>	<b>26</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	30	0	0	0	0	3	29	0	0	62
Next Step	0	0	0	0	0	29	57	0	0	86
<b>Total</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>31</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>147</b>



Standard

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>52113002-Cut</b>	7.6	6111 - Lowland Balsam Poplar	Sawtimber Medium	87	51-80	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest excluding northwest (removed) tip. Remove all scotch pine regardless of diameter. Leave tops intact and scattered to inhibit browsing. Follow riparian BMPs. Sign and protect snowmobile trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Invasive Species</p> <p><u>Treatments:</u> ; Monitoring, Natural Regen (Re-Inventory); Pesticide, Hand Application</p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for aspen. A temporary conversion to lowland shrub will be acceptable providing it is dominated by native species. ("Temporary" being defined as impermanent, with no expectation on when succession from shrub to forested will occur, but allowing it to occur naturally.)</p> <p><u>Other Comment:</u> Prefer dry summer, frozen winter conditions. Do not cut any cedar, hemlock, or larch (not to exceed 10BA on average across the site); no apple. Old railroad siding grade on west side of stand might be the best location for a landing. Private fence on north edge of stand. Avoid cutting through areas of dense saplings (consider protecting advanced regen).</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

<b>3</b>	<b>52113003-Spray</b>	0.4	6220 - Alder/willow	Nonstocked			Unspecified	Pesticide	Hand Application	6220 - Alder/willow	No
<p><u>Prescription</u> Treat invasive phragmites.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Invasive Species</p> <p><u>Treatments:</u> ; Pesticide, Hand Application; Monitoring, Invasive Species</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This work may be accomplished by AmeriCorps members.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

<b>11</b>	<b>52113011-Cut</b>	4.4	42110 - Planted Red Pine	Sawtimber Well	60	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark stand to 110 BA.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Residual red pine will satisfy stocking requirements.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
13	52113013-Cut	7.5	6112 - Lowland Aspen	Sawtimber Medium	68	51-80	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. Sign and protect snowmobile trail. Follow riparian area BMPs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Hand Application; Monitoring, Invasive Species</p> <p><u>Treatments:</u> ; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for lowland aspen.</p> <p><u>Other Comment:</u> Make this an optional unit. Water table made it inoperable during the last entry. Do not cut any cedar or larch. Leave tops intact and scattered to inhibit regeneration.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
14	52113014-Cut	2.2	42110 - Planted Red Pine	Sawtimber Well	60	171-200	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest. No retention due to stand size. Beware of barbed wire in north and east.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Hand Application; Monitoring, Invasive Species</p> <p><u>Treatments:</u> ; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Regeneration will meet minimum stocking requirements for deciduous species.</p> <p><u>Other Comment:</u> Stand is likely to require crane mats to access. Make this an optional unit due to accessibility challenges.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
20	52113020-Monitor	28.9	4119 - Mixed Northern Hardwoods	Sapling Poor	3	Immatu re	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Intermediate regeneration survey</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for northern hardwood.</p> <p><u>Other Comment:</u> To be preformed by MSU</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
22	52113022-Spray	1.5	6120 - Lowland Cedar	Poletimber Medium	92	111-140	Pesticide	Hand Application	6120 - Lowland Cedar	Even-Aged	No
<p><u>Prescription</u> Spray, burn, or otherwise remove phragmites with available tools.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use; Pesticide, Hand Application; Monitoring, Herbicide Use</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This work may be accomplished by AmeriCorps members.</p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>38 52113038-Cut</b>	8.5	6118 - Lowland Deciduous with Cedar	Sawtimber Well	63	51-80	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. Follow BMPs along the Bear River. Sign and protect snowmobile trail.  <u>Specs:</u>  <u>Next Step</u> Pesticide, Hand Application; Monitoring, Invasive Species  <u>Treatments:</u> ; Monitoring, Natural Regen (Re-Inventory)  <u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for aspen. An E- or LM- type will also be acceptable meeting minimum stocking requirements.  <u>Other</u> Do not cut any cedar or larch.  <u>Comment:</u> Leave tops intact and scattered to inhibit regeneration.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>38 52113038-Spray</b>	0.2	6118 - Lowland Deciduous with Cedar	Sawtimber Well	63	51-80	Pesticide	Hand Application	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Remove knotweed with available tools such as spraying, pulling, burning, etc.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Herbicide Use; Pesticide, Hand Application; Monitoring, Herbicide Use  <u>Treatments:</u>  <u>Acceptable Regen:</u>  <u>Other</u> This work may be accomplished by AmeriCorps members.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>39 52113039-Spray</b>	0.6	6129 - Mixed Coniferous Lowland Forest	Poetimber Well	97	111-140	Pesticide	Hand Application	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Remove phragmites through spraying, burning, or other available methods.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Herbicide Use; Pesticide, Hand Application; Monitoring, Herbicide Use  <u>Treatments:</u>  <u>Acceptable Regen:</u>  <u>Other</u> This work may be accomplished by AmeriCorps members.  <u>Comment:</u>  <u>Site Condition</u> Too Wet  <u>Proposed Start Date:</u> 10/1 /2023</p>										

**Total Treatment Acreage Proposed: 61.8**

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment: 113

Year of Entry: 2024

### Availability for Management

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

				2B	5C	1C	2G	3A	3J	5A	
6	6	0	0	Bare/Sparsely Vegetated							
541	0	0	541	Cedar							
22	22	0	0	Herbaceous Openland							
17	17	0	0	Low-Density Trees							
58	15	10	33	10			33				
403	0	0	403	Lowland Conifers							
13	9	0	4	Lowland Deciduous							
15	15	0	0	Lowland Mixed Forest							
81	81	0	0	Lowland Shrub							
5	0	5	0	Mixed Upland Deciduous							
126	126	0	0	Northern Hardwood							
7	7	0	0	Red Pine							
6	0	0	6	Upland Conifers							
31	23	7	1	Upland Mixed Forest							
2	2	0	0	Urban							
82	82	0	0	Water							
1,416	406	21	989	10	12	320	581	38	5	45	
	29%	1%	70%	Total Forested Acres							
				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	1C: Other dept or div proc/practices	320	3A: Conservation Values incompatible with harvest at this time	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
<b>Comments:</b>							
Stand encompasses much of the Bear River ERA. It is not exclusive of harvesting, but large commercial harvests are not recommended. Portions of this stand were set up and put out for bid last YOY and were not bid on. General feedback was that the trees were short, small diameter with generally low (though variable) stocking levels. The presence of channels and very wet ground was also off-putting. Non-commercial harvests might be more reasonable if wishing to promote cedar regeneration, though natural gap dynamics are occurring and generally resulting in desirable regeneration.							



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 113

Tricia St. Pierre : Examiner

Year of Entry: 2024

2	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	128	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very wet, hummocky lowland stand; seasonally flooded, Bear River Corridor. Slow growing cedar swamp with good potential for sensitive species. West edge inaccessible: blocked by railroad and private property.							
3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainages and wet pockets within the stand, but operable. West edge of stand is within a 100 foot BMP zone to the Bear River.							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	45	3A: Conservation Values incompatible with harvest at this time	5B: Maintain for regeneration purposes	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified
<b>Comments:</b> Low, wet ground with excessive blow-down; understocked. Stand is regenerating well (diverse) within the jackstrawed tangles of blow-down. Access is very challenging. Self-perpetuating. Part of the Bear River Rich Conifer Swamp ERA.							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	152	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Challenges with accessibility: channels through south and east portions of stand. Very soggy ground across much of the site, but there is some operable ground in there. Beaver damage around stream: leave adequate buffers to deter beaver activity in the future. Part of the Bear River Rich Conifer Swamp ERA.							
6	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	6	2J: Blocked by Railroad	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Legacy trees dominate this stand. Blocked by private property, railroad, and terrain challenges.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 113

Tricia St. Pierre : Examiner

Year of Entry: 2024

7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	30	2J: Blocked by Railroad	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A lowland stand, flooded (potentially seasonally, but sensitive, wet soils year round); likely to convert to a lowland shrub stand if harvested. West edge is a slight incline and upland inclusion to railroad grade.							
8	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	31	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hillside into adjacent lowland with seeps. High volume of deer yarding/browsing this stand. Challenge in getting desirable regeneration with deer pressure.							
9	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	10	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is very wet but likely operable in the right conditions. Excellent habitat for hawks; be alert to potential nests. No good access from state land and unknown access across private. Heavy deer browse on subcanopy. Survey corner in northeast. Beaver dam to southeast of stand.							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	3J: Water quality / BMPs (stream, river, or lake)	5A: Not able to obtain desirable regeneration	4A: No Markets Available for these Forest Products	Unspecified
<b>Comments:</b> Seeps and flowing water throughout stand. Bear River BMPs along east edge. Nurse logs have been most productive in producing cedar regeneration. Still heaving to short sapling cedar.							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	3J: Water quality / BMPs (stream, river, or lake)	5A: Not able to obtain desirable regeneration	4A: No Markets Available for these Forest Products	Unspecified
<b>Comments:</b> Slow growing, still sapling-dominated stand; very wet with sensitive soils. Bear River BMPs along east edge.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 113

Tricia St. Pierre : Examiner

Year of Entry: 2024

12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Minimum 100-foot buffer along the Bear River.							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The water table in this stand has risen significantly resulting in mortality, whole tree tip-ups, and an increase in lowland indicator plants. East portion seems more affected than west.							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	3J: Water quality / BMPs (stream, river, or lake)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
<b>Comments:</b> A very wet stand with flowing water in the north. Bear River BMPs apply to west edge.							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	5A: Not able to obtain desirable regeneration	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b> North half of this stand is too wet to harvest. South half is feasible, but challenging access with high deer browse pressure, also very small for a lot of effort. Bear River BMPs affect southwest acreage.							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	177	3J: Water quality / BMPs (stream, river, or lake)	3A: Conservation Values incompatible with harvest at this time	5A: Not able to obtain desirable regeneration	Unspecified
<b>Comments:</b> A rather wet stand with streams. Bear River BMPs along west edge. Some natural wind throw is occurring resulting in desirable regeneration. Characteristic of a Rich Conifer Swamp.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 113

Tricia St. Pierre : Examiner

Year of Entry: 2024

17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	18	5A: Not able to obtain desirable regeneration	3A: Conservation Values incompatible with harvest at this time	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
<b>Comments:</b> Wet stand with streams. Areas of windthrow are regenerating well enough where deer browse is inhibited. Characteristic of a Rich Conifer Swamp.							
18	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	21	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A rather wet stand except the north edge. Southern half is characteristic of a Rich Conifer Swamp and further survey of the Bear River Rich Conifer Swamp might include portions of this stand.							
19	<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> Less than two acres of merchantable, treatable white pine. Multiple aspen clones also less than two acres total and very spread out. Excessive deer browse on subcanopy. East edge is a wet alder swale.							
20	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100-foot BMP for the Bear River.							
21	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	24	3A: Conservation Values incompatible with harvest at this time	5B: Maintain for regeneration purposes	Unspecified	Unspecified
<b>Comments:</b> West half of stand has very impressive natural hemlock regeneration with equally impressive hemlock, cedar, and white pine in the canopy. East half transitions to cedar and then aspen with balsam fir, not particularly good quality and on wetter ground. Maintain stand for natural hemlock and cedar regeneration.							

**Report 4 – Site Conditions**

**Gaylord Mgt. Unit**  
**Tricia St. Pierre : Examiner**

**Compartment: 113**  
**Year of Entry: 2024**

22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
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**Comments:**  
Very wet, saturated soils. Standing water. Excessive blowdown resulted in protected successful regeneration.

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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			
<b>1</b>	6120 - Lowland Cedar	Sawtimber Medium	6.5	94	51-80	N/A	Trace white pine, black spruce in canopy. Trace canopy red maple present in the the south; absent in the north. Rare red osier dogwood, japanese barberry, greenbrier, michigan holly in subcanopy. Flowing water in north. Some cedar mortality. North third is clumpy, south third is fairly consistent; east third gradually thins, becoming sparsely stocked with subcanopy cattails, larch. South tip is a little more mixed, kind of clumpy. Barberry in north-center.			
<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 Fir		5	Pole/Sapling	6		Cattail spp.		Low	Unspecified	Non-Wood
Northern White Cedar		87	Log/Pole	10	94	Willow spp.		Trace	Variable	Tall Shrub
Tamarack		2	Log/Pole	13		Black Ash		Medium	Variable	Sapling
Quaking Aspen		2	Pole/Log	8		Tag Alder		Medium	Variable	Tall Shrub
Paper Birch		2	Pole/Sapling	6		Balsam Fir		Low	Variable	Sapling
Balsam Poplar		2	Pole/Sap/Log	6		Tamarack		Trace	Variable	Sapling
						Balsam Poplar		Trace	Variable	Sapling
<b>2</b>	6111 - Lowland Balsam Poplar	Sawtimber Medium	7.7	87	51-80	N/A	Snowmobile trail runs through stand. Wire fence along the north boundary. Far northwest tip is larch dominated with quaking aspen. Old grade through center of stand (N-S); trace apple trees along grade edges. Significant ash coarse woody debris in the east. High ash stocking in spots, medium overall. Trace beech (sap) in north; one hemlock in northeast (pole). Trace elm, black ash, black cherry in canopy. Rare elm, grape in subcanopy.			
<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		40	Log/Pole	10		Balsam Poplar		Medium	Variable	Sapling
Balsam Fir		3	Pole/Log	8		Blackberry/Raspberry		Trace	< 5 feet	Tall Shrub
Northern White Cedar		2	Pole/Log	8		Black Cherry		Trace	5 - 10 feet	Sapling
Paper Birch		1	Pole/Log	8		Red Osier Dogwood		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		52	Log/Pole	12	87	Willow spp.		Trace	10 - 20 feet	Tall Shrub
Tamarack		2	Log/Pole	12		Northern White Cedar		Trace	>20 feet	Sapling
						Tag Alder		Low	10 - 20 feet	Tall Shrub
						Apple (spp.)		Trace	10 - 20 feet	Sapling
						Black Ash		Medium	Variable	Sapling
						Nannyberry		Trace	5 - 10 feet	Tall Shrub
						Balsam Fir		Low	Variable	Sapling
						Scotch Pine		Trace	5 - 10 feet	Sapling
<b>3</b>	6220 - Alder/willow	Nonstocked	25.6		Unspecified	No		Scattered dead elm, ash. Multiple size classes of trees present. Old beaver damage across stand. Beaver dam on private to east. Clump of nonnative phragmites near east edge.		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
American Elm		Trace	Variable	Sapling						
Black Ash		Trace	Variable	Sapling						
Balsam Fir		Trace	Variable	Sapling						
Michigan Holly		Low	5 - 10 feet	Tall Shrub						
Paper Birch		Low	Variable	Sapling						
Phragmites (exotic)		Trace	Unspecified	Non-Wood						
Red Osier Dogwood		Trace	5 - 10 feet	Tall Shrub						
Nannyberry		Low	Variable	Tall Shrub						
Willow spp.		Low	Variable	Tall Shrub						
Tamarack		Trace	Variable	Sapling						
Tag Alder		Full	Variable	Tall Shrub						
Red Maple		Trace	Variable	Sapling						
Northern White Cedar		Trace	Variable	Sapling						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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4	4311 - Pine, Aspen Mix	Sawtimber Medium	7.7	66	111-140	N/A	Trace scotch pine, balsam poplar, white cedar, elm, red maple, and white ash in canopy. Rare serviceberry and black ash in subcanopy. Dense black cherry "shrubs"(browsed saplings) under white pine. East edge is an alder swale; dense alder with lesser amounts of nannyberry, black cherry, ash, and cedar. Two distinct pockets of white pine with no planting record. Aspen clonal in nature, scattered. Scotch pine in north (sap/pole/log).
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	15	Log/Pole/Sap	10	
Tamarack	1	Log	14	
White Pine	49	Log/XLog/Pole	16	66
Quaking Aspen	35	Log/Pole	14	66

Sub-Canopy Species	Density	Avg. Height	Size
Apple (spp.)	Trace	>20 feet	Pole
Northern White Cedar	Trace	Variable	Sapling
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Nannyberry	Trace	5 - 10 feet	Tall Shrub
Beech	Trace	< 5 feet	Sapling
Balsam Fir	Trace	Variable	Sapling
White Pine	Trace	Variable	Sapling
Black Cherry	Medium	Variable	Sapling
Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
Michigan Holly	Trace	5 - 10 feet	Tall Shrub
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Scotch Pine	Trace	Variable	Sapling
Willow spp.	Trace	10 - 20 feet	Tall Shrub
White Ash	Trace	Variable	Sapling
Tag Alder	Medium	10 - 20 feet	Tall Shrub
American Highbush Cranberry	Trace	Variable	Tall Shrub
Bristly Green Brier	Trace	Unspecified	Vine

5	4319 - Mixed Upland Forest	Poletimber Medium	23.2	47	51-80	N/A	Seasonal inundation. Canopy black ash has been reduced to trace amounts following EAB. Trace red pine, black spruce, elm, and balsam poplar in canopy. Rare red pine, white ash, malus, red osier dogwood, white spruce, greenbrier, and ninebark in subcanopy. Alder and willow dominate larger gaps throughout the stand. East half is pretty heavy to white pine. Old road beds through stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	10	Log/Pole/Sap	10	
Quaking Aspen	20	Log/Pole	10	
Black Cherry	5	Pole/Log	8	
White Pine	25	XLog/Log/Pole	22	
Tamarack	6	Pole/Sapling	7	47
Paper Birch	30	Pole/Log/Sap	8	47
Red Maple	2	Pole/Log	8	
Balsam Fir	2	Pole/Log/Sap	8	

Sub-Canopy Species	Density	Avg. Height	Size
Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub
Tag Alder	Medium	Variable	Tall Shrub
Willow spp.	Low	Variable	Tall Shrub
Tamarack	Low	Variable	Sapling
Glossy Buckthorn	Low	5 - 10 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling
Balsam Poplar	Trace	Variable	Sapling
Black Ash	Low	Variable	Sapling
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
White Pine	Trace	Variable	Sapling
Scotch Pine	Trace	Variable	Sapling
Beech	Trace	< 5 feet	Sapling
Nannyberry	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Low	Variable	Sapling
Black Spruce	Trace	Variable	Sapling

6	122 - Road/Parking Lot	Nonstocked	2.0		Unspecified	No	Paved County Road, Evergreen Trail.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
7	3102 - Grass	Nonstocked	2.3		Unspecified	No	Mostly upland with some low inclusions. Snowmobile Trail runs E-W through main portion of stand. Rare black cherry, larch, dogwood present. Fair amount of invasives present.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Glossy Buckthorn	Trace	5 - 10 feet	Tall Shrub					
								Red Pine	Trace	< 5 feet	Sapling					
								White Pine	Trace	Variable	Sapling					
								Scotch Pine	Trace	Variable	Sapling					
								Willow spp.	Low	5 - 10 feet	Tall Shrub					
								Tag Alder	Low	5 - 10 feet	Tall Shrub					
								Spotted Knapweed	Low	Unspecified	Non-Wood					
								Autumn Olive	Trace	5 - 10 feet	Tall Shrub					
								Ninebark	Trace	5 - 10 feet	Tall Shrub					
								Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub					
8	3102 - Grass	Nonstocked	3.4		Unspecified	No										
								Sub-Canopy Species	Density	Avg. Height	Size					
								White Pine	Low	>20 feet	Log					
9	6120 - Lowland Cedar	Poletimber Medium	14.0	79	1-50	N/A	Stand has barely graduated into a pole stand. Still a lot of cedar saps. White pine and larch are really in a supercanopy position to the cedar. Old stumps have acted as nurse beds for cedar. Trace black ash, black spruce, white cedar (log/xlog), black cherry, and balsam poplar in canopy. Rare black cherry in subcanopy. Subcanopy white cedar is heavily browsed. Seeps and flowing water through stand. Very wet. Gaps are heavy to alder (greenbrier associated with alder). Observed horsetail through snow in southwest. Southeast quarter of stand has larger diameter cedar (8" pole/log) with trace nannyberry, bam, cherry. Trace Xlog larch in southeast corner. Trace white spruce in south.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	1	Log/XLog	16		Northern White Cedar	Trace	Variable	Sapling
								Yellow Birch	1	Sapling/Pole	4		Balsam Fir	Low	Variable	Sapling
								Tamarack	30	Pole/Log/Sap	8		Tamarack	Trace	Variable	Sapling
								Quaking Aspen	2	Log/Pole	12		Red Osier Dogwood	Trace	5 - 10 feet	Tall Shrub
								Red Maple	1	Sapling/Pole/Log	4		Black Ash	Trace	Variable	Sapling
								Northern White Cedar	55	Pole/Sap/Log	6	79	Willow spp.	Trace	10 - 20 feet	Tall Shrub
								Balsam Fir	10	Sapling/Pole	4		Nannyberry	Trace	10 - 20 feet	Tall Shrub
													Sweet Gale	Trace	< 5 feet	Tall Shrub
													Tag Alder	Low	Variable	Tall Shrub
													Black Spruce	Trace	< 5 feet	Sapling
													Bristly Green Brier	Trace	Unspecified	Vine
													Cattail spp.	Low	Unspecified	Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>10</b>	6120 - Lowland Cedar	Sawtimber Well	18.2	89	141-170	N/A	Cedar present in Log/Pole/Sap/Xlog. Trace balsam poplar, elm, basswood, cherry in canopy. Significant mortality in log larch. Southern portion is pretty solidly cedar, pole dominated with consistent larch and trace yellow birch. North-central portion is a mess of blow-down with higher components of paper birch, red maple, and black spruce. Trace hardwood to the north of that. Edges are still consistent to cedar, generally log dominated. No reportable subcanopy in densest cedar. Balsam fir and alder in gaps; birch and larch increase in gaps in north (still fir dominated). Stream present.		
	<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>
	White Pine	3	XLog/Log	20		Tag Alder	Trace	5 - 10 feet	Tall Shrub
	Yellow Birch	2	Pole/Log/Sap	8		Balsam Fir	Low	Variable	Sapling
	Northern White Cedar	67	Log/Pole/Sap	10	89	Black Ash	Trace	Variable	Sapling
	Tamarack	15	Log/Pole/XLog	12		Tamarack	Trace	Variable	Sapling
	Balsam Fir	5	Pole/Log/Sap	7					
	Paper Birch	2	Pole/Log	8					
	Red Maple	3	Pole/Log/Sap	8					
	Black Spruce	3	Pole/Log/Sap	7					
<b>11</b>	42110 - Planted Red Pine	Sawtimber Well	4.4	60	141-170	N/A	Decent amount of red pine mortality on south edge of stand as water table has risen. Some natural, single-tree mortality within stand. Tag alder mingles on south perimeter; red osier dogwood, too. Trace red maple, black cherry in canopy. Rare red osier dogwood, elm in subcanopy. Observed one red oak sap on south perimeter.		
	<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>
	White Pine	14	Log/Pole	14		White Ash	Medium	Variable	Sapling
	Red Pine	80	Pole/Log/Sap	9	60	Beech	Low	Variable	Sapling
	Quaking Aspen	5	Log/Pole	12	55	Quaking Aspen	Trace	Variable	Sapling
	Paper Birch	1	Log/Pole	10		Paper Birch	Trace	>20 feet	Sapling
						Balsam Fir	Trace	>20 feet	Pole
						Black Cherry	Medium	Variable	Sapling
						Balsam Fir	Medium	Variable	Sapling
						Northern White Cedar	Trace	>20 feet	Pole
						Honeysuckle (spp.)	Low	< 5 feet	Tall Shrub
						White Pine	Low	Variable	Sapling
<b>12</b>	6112 - Lowland Aspen	Poletimber Poor	29.5	68	1-50	N/A	A lowland aspen stand except for the west edge parallel to the railroad grade which is a 20% east-facing slope occupied by dense larch in the middle and dense cedar (with larch) in the south. Small inclusion of basswood and sugar maple on the west edge in the south. Northeast is alder dominated with willow. Old grade still evident in southeast portion of stand; trace juniper present. Clonal quaking and balsam poplar. Trace white spruce, black cherry, paper birch, red pine in canopy. Rare white spruce, ironwood, common buckthorn, white pine in subcanopy.		
	<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>
	White Pine	1	XLog/Log/Pole	18		Black Ash	Trace	Variable	Sapling
	Northern White Cedar	10	Pole/Sap/Log	8		Balsam Poplar	Low	Variable	Sapling
	Bigtooth Aspen	1	Log/Pole	12		Ninebark	Trace	5 - 10 feet	Tall Shrub
	Tamarack	15	Pole/Log/Sap	8		Tag Alder	High	Variable	Tall Shrub
	Basswood	1	Log/XLog/Pole	16		Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub
	Quaking Aspen	39	Pole/Log/XLog	8	68	Willow spp.	Low	Variable	Tall Shrub
	Sugar Maple	1	Log/XLog	14		Nannyberry	Low	10 - 20 feet	Tall Shrub
	Balsam Fir	2	Pole/Log	8		White Ash	Trace	Variable	Sapling
	Balsam Poplar	30	Pole/Sap/Log	7		Juniper	Trace	5 - 10 feet	Tall Shrub
						Balsam Fir	Trace	Variable	Sapling
						Common Buckthorn	Trace	5 - 10 feet	Tall Shrub
						Red Osier Dogwood	Medium	5 - 10 feet	Tall Shrub
						Northern White Cedar	Trace	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>13</b>	6112 - Lowland Aspen	Sawtimber Medium	11.0	68	51-80	N/A	Trace cedar, elm, red maple in canopy. Windthrow, especially in east. Very wet now.																																																																																		
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<b>14</b>	42110 - Planted Red Pine	Sawtimber Well	2.2	60	171-200	N/A	Trace larch (on perimeter), bigtooth aspen, cedar, red maple. Lowland edges; alder creeping in. Barbed wire on east perimeter and in north through part of the stand.																																															
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<b>15</b>	3102 - Grass	Nonstocked	2.3		Unspecified	No	Northeast narrow leg is a small upland grade with a drainage to the north; mix of upland and lowland species on perimeter.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
16	6229 - Mixed lowland shrub	Nonstocked	12.7		Unspecified	No	Slightly less wet, not quite as dense in northwest. Rare larch, black cherry, cedar, bulrush, elm present. Stand has potential to eventually convert to a forested stand given lots of time and patience. Some pole-sized willows scattered. Southwest is willow/alder dominated with pockets of balsam poplar and a solid red osier dogwood underneath. Northeast transitions more to alder, not quite as tall or dense, with less dogwood.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Ninebark	Trace	5 - 10 feet	Tall Shrub
								Nannyberry	Low	5 - 10 feet	Tall Shrub
								Tag Alder	High	Variable	Tall Shrub
								Bristly Green Brier	Trace	Unspecified	Vine
								Balsam Poplar	Low	Variable	Sapling
								Balsam Poplar	Low	>20 feet	Pole
								Willow spp.	High	10 - 20 feet	Tall Shrub
								Sweet Gale	Trace	< 5 feet	Tall Shrub
								Balsam Fir	Trace	Variable	Sapling
								Red Osier Dogwood	High	5 - 10 feet	Tall Shrub
17	3102 - Grass	Nonstocked	2.0		Unspecified	No	Cherry is sap/pole/log. White pine pole/sap/log. Tamarack pole/sap. Scotch pine sap/pole. Encroaching balsam poplar in southwest. One boxelder sapling on edge of railroad grade.				
								Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	Low	Variable	Pole
								Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
								Tamarack	Trace	>20 feet	Pole
								Black Cherry	Low	Variable	Sapling
								Scotch Pine	Low	Variable	Sapling
								Balsam Fir	Trace	Variable	Sapling
								Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
								Balsam Poplar	Low	>20 feet	Sapling
								Spotted Knapweed	High	Unspecified	Non-Wood
								Bracken Fern	Medium	Unspecified	Non-Wood
18	500 - Water	Nonstocked	82.4		Unspecified	No	Bear River corridor. Stand was not observed in its entirety; inventory is based on multiple spot observations and inference from surrounding lowland shrub types. Be alert to invasives along the river corridor, especially phragmites and knotweed, though buckthorn spp (common and glossy), barberry, and autumn olive are a threat as well. Many inlets, old oxbows, side channels. Some blowdown on edges (prominent in cedar) with fluctuations in the water table.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Nannyberry	Low	5 - 10 feet	Tall Shrub
								Red Osier Dogwood	Medium	< 5 feet	Tall Shrub
								Northern White Cedar	Trace	Variable	Sapling
								Balsam Poplar	Trace	Variable	Sapling
								Tag Alder	Medium	Variable	Tall Shrub
								Tamarack	Trace	Variable	Sapling
								Cattail spp.	Low		Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**19**      6120 - Lowland Cedar      Poletimber Medium      127.5      104      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	50	Pole/Sap/Log	6	104
White Pine	2	Log/XLog/Pole	14	
Black Spruce	15	Pole/Log/Sap	8	
Red Maple	2	Sapling/Pole/Log	4	
Black Ash	2	Sapling/Pole	2	
Balsam Poplar	3	Pole/Sap/Log	6	
Quaking Aspen	2	Log/Pole/Sap	10	
Balsam Fir	5	Pole/Sap/Log	7	68
Yellow Birch	2	Sapling/Pole/Log	4	
Paper Birch	2	Pole/Sap/Log	8	
Tamarack	15	Log/Pole/Sap	10	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	Variable	Tall Shrub
Willow spp.	Trace	Variable	Tall Shrub
Gray Dogwood	Trace	< 5 feet	Tall Shrub
Ninebark	Trace	< 5 feet	Tall Shrub
Cattail spp.	Trace	Unspecified	Non-Wood
Bulrush	Trace	Unspecified	Non-Wood
Northern White Cedar	Trace	Variable	Sapling
Labrador Tea	Low	< 5 feet	Tall Shrub
Black Ash	Low	Variable	Sapling
Balsam Poplar	Trace	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Nannyberry	Trace	5 - 10 feet	Tall Shrub
White Pine	Trace	< 5 feet	Sapling
Bristly Green Brier	Trace	Unspecified	Vine
Red Osier Dogwood	Medium	< 5 feet	Tall Shrub
Tamarack	Low	Variable	Sapling

Stand was observed through multiple entry points along the south, west, and north perimeter. Observed trace hemlock, elm, and basswood in canopy. Rare highbush cranberry, hemlock, honeysuckle in the subcanopy. Gap dynamics occurring; some areas of tip-ups within the river corridor where flooding is most frequent. Small bit of barbed wire in center of stand along edge of E-W property line; could not locate a corner. Cedar appears to be consistent with local fluctuations of larch and black spruce. Some areas of cedar decline and mortality - again, most prevalent adjacent to river, but elsewhere too. Streams and seeps throughout stand. A cored black spruce showed less than 2" of diameter growth in the last 60 years and about 6" of growth in its initial 45 years. Cedar was more even with rare spurts of increased growth.

**20**      4119 - Mixed Northern Hardwoods      Sapling Poor      28.9      3      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Sapling	1	
Basswood	1	Log	14	
Ironwood	15	Sapling	1	
Beech	15	Sapling	1	
Bigtooth Aspen	5	Sapling	1	
Red Maple	36	Sapling	1	3
Hemlock	2	Pole/Log/Sap	8	
Black Cherry	10	Sapling	1	
Basswood	5	Sapling	1	
Sugar Maple	1	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Ash	Low	Variable	Sapling
Red Maple	Low	< 5 feet	Sapling
Ironwood	Medium	< 5 feet	Sapling
Blackberry/Raspberry	Full	< 5 feet	Tall Shrub
Beech	Medium	< 5 feet	Sapling
Sugar Maple	Low	< 5 feet	Sapling

Full raspberry stocking with less than desirable hardwood regeneration stocking. Southern half is a sea of raspberry with scattered sugar maple, basswood, and black cherry, <5% hardwood canopy. North half is much more heavily stocked, but with red maple and a few pockets of aspen. Beech and ironwood are consistent across the site at low levels (in the "canopy"), but the subcanopy is rather highly stocked with beech and ironwood under the raspberry. Residual sugar maple, basswood, hemlock, trace black cherry. Post harvest notes: Sale complete winter 2017/2018; part of MWR Research Project: MWR Gaylord Cluster 2: 52-103-17-01. Rx was seed tree, leave all tops <9". Lots of slash remaining.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>21</b>	42360 - Upland Cedar	Poletimber Medium	31.3	97	81-110	N/A	Upland cedar stand situated on 10-20% grade on southwest-facing slopes dropping down into lowland. Springs and seeps in hillsides. Couple pockets of blowdown; pockets of cedar decline and mortality elsewhere, but most of the cedar is healthy. Erratic densities, ranging 20-160, averaging 100. There are a LOT of deer utilizing the cedar for cover. Subcanopy is browsed, especially cedar and ash. Trace elm, black spruce in canopy. Rare honeysuckle, highbush cranberry, ironwood, autumn olive, and black spruce in subcanopy. Southeast island of stand is log/xlog cedar by the road, transitioning into pole-dominated cedar with some seeps, inundation. There are some very large stumps along the east and southwest edges of this portion of the stand. Cedar is trying to regenerate, but deer are just annihilating it. Northwest island is pole cedar in the south transitioning to a mix of cedar and deciduous to the north; an increase of white pine in the northwest. Far north edge transitions to hardwood (approximately two acres): sugar maple, basswood, black cherry, red maple, and ironwood. Far northwest triangle (1 acre) contains a lot of hemlock and white pine with scattered red maple and cedar. One apple tree. There's a 36.5" white pine on the edge of the 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	71	Pole/Sap/Log	8	97	Nannyberry	Trace	5 - 10 feet	Tall Shrub
	Quaking Aspen	5	Log/Pole/XLog	14		Northern White Cedar	Trace	< 5 feet	Sapling
	Tamarack	8	Pole/Log/Sap	9		Balsam Poplar	Trace	Variable	Sapling
	Balsam Fir	5	Log/Pole	10		Quaking Aspen	Trace	Variable	Sapling
	Basswood	1	Log/XLog	16		White Ash	Low	Variable	Sapling
	White Pine	2	Log/XLog	14		Balsam Fir	Low	Variable	Sapling
	Sugar Maple	1	XLog/Log	20		Red Osier Dogwood	Trace	< 5 feet	Tall Shrub
	Yellow Birch	2	Log/Pole/Sap	12		Tamarack	Trace	Variable	Sapling
	Black Cherry	1	Log/Pole/XLog	12		White Pine	Trace	Variable	Sapling
	Hemlock	1	Log/Pole/XLog	14		Willow spp.	Trace	Variable	Tall Shrub
	Balsam Poplar	2	Pole/Log/Sap	8		Black Ash	Trace	Variable	Sapling
	Red Maple	1	Log/Pole/XLog	14					
<b>22</b>	6120 - Lowland Cedar	Poletimber Medium	320.3	92	111-140	N/A	Stand contains the majority of the Bear River (Rich Conifer Swamp) ERA with the associated ERA plan. Hare and bobcat, deer and coyote present. Supercanopy white pine is looking stressed in southwest. Glimpses at ground flora reveals a dense mat of sphagnum moss. Occasional brooming in spruce. Decent cedar regeneration in deepest, most interior regions that are least accessible for deer due to coarse woody debris. Some areas dominated by black spruce which are generally more open and easier to walk through. Increase in larch saplings associated with higher densities of black spruce. Rare paper birch saps, blueberry, highbush cranberry, balsam poplar saplings, ash, swamp rose, michigan holly in subcanopy. Trace yellow birch, hemlock in canopy. Majority of the hemlock is along the southern edge on more solid ground. A significant amount of blowdown adjacent to the stream in the east, especially in the northeast corner.		
	<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>
	Paper Birch	1	Log/Pole/Sap	10		Black Spruce	Low	Variable	Sapling
	Balsam Fir	4	Pole/Sap/Log	6		Black Ash	Trace	Variable	Sapling
	Tamarack	5	Log/Pole	12		Tag Alder	Medium	Variable	Tall Shrub
	White Pine	3	XLog/Log	20		Cattail spp.	Trace	Unspecified	Non-Wood
	Northern White Cedar	62	Pole/Sap/Log	7	92	Tamarack	Low	Variable	Sapling
	Black Spruce	25	Log/Pole	10		Leatherleaf	Low	< 5 feet	Tall Shrub
						Labrador Tea	Medium	< 5 feet	Tall Shrub
						Hemlock	Trace	Variable	Sapling
						Northern White Cedar	Low	Variable	Sapling
						Canadian Yew	Trace	< 5 feet	Tall Shrub
						Paper Birch	Trace	>20 feet	Sapling
						Balsam Fir	Medium	Variable	Sapling
						Willow spp.	Trace	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**23** 3104 - Degraded Nonstocked 8.9 Unspecified No Powerlines, illegal ORV trails, scramble area, refuse. Sumac is heavily browsed.

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Trace	Variable	Sapling
Apple (spp.)	Trace	>20 feet	Pole
Ironwood	Trace	< 5 feet	Sapling
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	Trace	Variable	Sapling
Red Maple	Trace	Variable	Sapling
Spotted Knapweed	High	Unspecified	Non-Wood
Staghorn Sumac	Trace	< 5 feet	Tall Shrub
Beech	Trace	< 5 feet	Sapling
Little Bluestem	Trace	Unspecified	Non-Wood
Black Cherry	Trace	Variable	Sapling
Bracken Fern	Low	Unspecified	Non-Wood
White Ash	Trace	< 5 feet	Sapling
Red Pine	Trace	>20 feet	Log
Juniper	Trace	< 5 feet	Tall Shrub
White Pine	Trace	Variable	Sapling

**24** 4111 - S.Maple, Hard Mast Association Poletimber Well 18.0 68 81-110 N/A Trace balsam poplar (in far southwest), black cherry, and white pine in canopy. Rare balsam fir, autumn olive, striped maple in subcanopy. Pockets of lower quality hardwood, but some decent pole timber verging on log. Southwest 1 acre is an inclusion of M3, cut in the early 90s now fully stocked sap/pole sugar maple. Trace scattered Xlog sugar maple. North half has higher stocking of bigtooth aspen, Far north bta is smaller in diameter than the rest of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	8	Log/Pole	10	
Red Maple	3	Log/Pole	10	
Ironwood	5	Pole/Sapling	7	
White Ash	1	Log/Pole	10	
Bigtooth Aspen	15	Log/Pole	14	
Beech	10	Log/Pole	10	
Sugar Maple	58	Pole/Log	8	68

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Ironwood	Medium	Variable	Sapling
Beech	Medium	Variable	Sapling
White Pine	Trace	Variable	Sapling
White Ash	Low	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>25</b>	3303 - Mixed Low Density Trees	Nonstocked	17.3		Unspecified	No	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
							Spotted Knapweed	High	Unspecified	Non-Wood
							Apple (spp.)	Trace	5 - 10 feet	Sapling
							Scotch Pine	Trace	Variable	Sapling
							Sugar Maple	Trace	Variable	Sapling
							Willow spp.	Trace	< 5 feet	Tall Shrub
							Spindle Tree	Trace	5 - 10 feet	Tall Shrub
							Red Pine	Trace	Variable	Sapling
							Bracken Fern	Trace	Unspecified	Non-Wood
							Black Cherry	High	Variable	Pole
							Quaking Aspen	Trace	Variable	Sapling
							Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub
							White Pine	High	>20 feet	Pole
							Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub
							Boxelder	Trace	>20 feet	Pole
							Hawthorn (spp.)	Medium	5 - 10 feet	Tall Shrub
							Little Bluestem	Trace	Unspecified	Non-Wood
							Ninebark	Trace	5 - 10 feet	Tall Shrub
							Gray Dogwood	Trace	< 5 feet	Tall Shrub
							Tamarack	Trace	Variable	Sapling
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub							
White Ash	Trace	Variable	Sapling							
Northern White Cedar	Low	Variable	Sapling							

White pine is weeviled, bushy. White pine present in pole/sap/log/xlog; black cherry pole/shrub/sap/log; red pine sap/pole/log; larch sap/pole/log; box elder pole/sap.  
A lot of degradation to this stand: dumping, vehicle damage, invasives, multiple fire rings. Most of the dumping is older, but there are some recent additions.  
Southwest is a little damp with some standing water (spring 2022). Willow and dogwood limited to this area.

<b>26</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	24.0	88	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Log/Pole	14	
Balsam Fir	10	Pole/Log	8	
White Pine	3	XLog/Log	20	
Hemlock	12	Log/Pole/XLog	14	
Basswood	2	Log/Pole	10	
Yellow Birch	2	Pole/Log	8	
Red Maple	18	Log/Pole	10	
Paper Birch	3	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	Variable	Sapling
Hemlock	Low	Variable	Sapling
Northern White Cedar	Trace	Variable	Sapling
White Ash	Trace	Variable	Sapling
Black Ash	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Trace	10 - 20 feet	Tall Shrub

Southeast is very different from northwest with shifting covertime gradients in between. Southeast is heavy to quaking aspen, balsam fir with alder, balsam fir subcanopy. Cedar becomes prominent towards center of stand, then hemlock and white pine begin to increase as you go further west. Red maple is consistent throughout though increases in far west along with yellow birch. Trace black cherry, black spruce, balsam poplar, sugar maple, and elm in canopy. Rare sugar maple, apple, nannyberry, beech, alternate leaved dogwood, basswood in subcanopy. Dead ash and increased coarse woody debris (ash and fir) most prominent in east half. Areas of very nice hemlock regeneration in west half.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
27	3103 - Rubus-Fern	Nonstocked	3.3		Unspecified	No	Red and white pine, cherry, present in various size classes; generally encroaching on the edges. Trace elm on west edge of stand 28. High to full raspberry in north. Private fence along south edge of stand.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Red Pine	Trace	Variable	Sapling					
								Scotch Pine	Trace	< 5 feet	Sapling					
								Black Cherry	Low	>20 feet	Pole					
								Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub					
								White Pine	Low	Variable	Sapling					
								Quaking Aspen	Trace	< 5 feet	Sapling					
								Apple (spp.)	Trace	>20 feet	Log					
								Spotted Knapweed	Medium	Unspecified	Non-Wood					
								Balsam Fir	Trace	Variable	Sapling					
								Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub					
								Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub					
								Bracken Fern	Low	Unspecified	Non-Wood					
Ironwood	Low	Variable	Sapling													
28	4110 - Sugar Maple Association	Sawtimber Well	38.2	95	81-110	N/A	Trace black cherry, balsam fir, elm, white ash in canopy. (White ash snags present, but most have fallen over. Ash was <15 BA of stand originally.) Aspen are confined to the east. Rare hemlock sapling, white pine sapling. Few pin cherries on south edge adjacent to private pine plantation. Some steeper slopes in this stand, but mostly operable. Five acres to northwest of grass opening (stand 27) is lower quality with smaller diameters; this area used to have much higher stocking of ash in the canopy (approx 30%). Very high leatherwood component here. Trace paper birch on edge of GO.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Hemlock	1	Log/XLog	14		Balsam Fir	Low	Variable	Sapling
								Red Maple	3	Log/Pole	14		Beech	Trace	Variable	Sapling
								Basswood	26	Log/Pole/XLog	14		Hemlock	Trace	>20 feet	Pole
								Yellow Birch	1	Log/Pole	12		Leatherwood	Medium	< 5 feet	Tall Shrub
								Quaking Aspen	2	Log	14		Ironwood	Low	Variable	Sapling
								Sugar Maple	66	Log/Pole/XLog	14	95	Sugar Maple	Full	< 5 feet	Seeding
								Bigtooth Aspen	1	Log/XLog	16		Maple Leaved Viburnum	Trace	< 5 feet	Tall Shrub
													Sugar Maple	Low	>20 feet	Sapling
													Prickly Or Wild Gooseberry	Trace	< 5 feet	Tall Shrub
													White Ash	Low	Variable	Sapling
													Black Cherry	Trace	Variable	Sapling
								29	6223 - Inundated Shrub Swamp	Nonstocked	34.8		Unspecified	No	Multiple size classes represented. Encroaching saplings, deer browse. Observations made along north edge travelling east. Did not observe far west end of stand.	
Sub-Canopy Species	Density	Avg. Height	Size													
Balsam Poplar	Trace	Variable	Sapling													
Black Spruce	Trace	Variable	Sapling													
Balsam Fir	Low	Variable	Sapling													
Northern White Cedar	Low	Variable	Seeding													
Cattail spp.	Medium	Unspecified	Non-Wood													
White Pine	Trace	Variable	Sapling													
Tamarack	Low	Variable	Sapling													
Tag Alder	Medium	5 - 10 feet	Tall Shrub													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>30</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	151.6	93	111-140	N/A	Trace balsam poplar, hemlock, yellow birch in canopy. Yellow birch and hemlock are primarily in the east half. Rare quaking aspen, black cherry, barberry, black ash, and elm in the subcanopy. Some streams in the southeast; occasional springs. Scattered log/Xlog/pole stumps. Gap dynamics are at work: scattered pockets of windthrow dominated by balsam fir (high to full stocking) with occasional cedar and larch (and trace white pine). Outside of the gaps and north of the streams, the subcanopy is sparse with trace to low balsam fir stocking and the occasional labrador tea. Subcanopy south of the stream is more highly stocked with balsam fir and much more heavily stocked with alder. Fairly significant coarse woody debris in many areas across the stand. Areas dominated by black spruce (especially in the center and southwest) have an increase of labrador tea, alder, red osier dogwood, and cedar in the subcanopy. Occasional leatherleaf as well. South strip along road varies between cedar dominated and black spruce with an increase in canopy balsam fir, paper birch, red maple, and aspen. Much more alder in the subcanopy. Northwest acreage is log-dominated cedar with consistent log red maple and xlog white pine. A fair amount of white pine >30" dbh.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	30	Pole/Sap/Log	6		White Pine	Trace		Variable	Sapling
Balsam Fir	10	Pole/Log/Sap	7		Northern White Cedar	Trace		Variable	Sapling
Tamarack	10	Log/Pole	10		Blueberry/Bilberry/Cranberry	Low		< 5 feet	Tall Shrub
Quaking Aspen	2	Log/Pole	14		Red Osier Dogwood	Trace		< 5 feet	Tall Shrub
Paper Birch	3	Pole/Log	8		Black Spruce	Trace		Variable	Sapling
Red Maple	3	Pole/Log/Sap	6		Labrador Tea	Low		< 5 feet	Tall Shrub
Northern White Cedar	37	Pole/Sap/Log	7	93	Tag Alder	Low		Variable	Tall Shrub
White Pine	5	XLog/Log/Pole	22		Balsam Poplar	Trace		Variable	Sapling
					Balsam Fir	Medium	Variable	Sapling	
					Leatherleaf	Trace	< 5 feet	Tall Shrub	
<b>31</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	6.1		Unspecified		Above-ground utility lines; maintained. Larch especially prominent in center of stand and to the north. Trace autumn olive in the south. Streams cross though corridor. Rare hemlock sapling. Good potential for both ferns and moss across the stand, but none observable in snow-on conditions.		
Sub-Canopy Species	Density	Avg. Height	Size						
Willow spp.	Low	< 5 feet	Sapling						
Tag Alder	Medium	Variable	Tall Shrub						
Labrador Tea	Trace	< 5 feet	Tall Shrub						
Tamarack	High	Variable	Sapling						
Black Spruce	Low	< 5 feet	Sapling						
Bulrush	Trace	Unspecified	Non-Wood						
Balsam Fir	Low	< 5 feet	Sapling						
White Pine	Trace	< 5 feet	Sapling						
Cattail spp.	Medium	Unspecified	Non-Wood						
<b>32</b>	6139 - Mixed Lowland Forest	Sawtimber Poor	15.0	60	51-80	N/A	White pine in the northeast and south edges. Clonal aspen with pockets of planted red pine (planted on tiny upland ridges) amongst wet, grassy openings in the north and dense tag alder in the south. Quaking aspen, larch, balsam fir pocket in northeast. Balsam fir and cedar along west perimeter. Trace larch, paper birch, elm in canopy.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	35	Log/Pole	12	60	Balsam Poplar	Medium		Variable	Sapling
Balsam Fir	5	Log/Pole	10		Tag Alder	Medium		10 - 20 feet	Tall Shrub
Quaking Aspen	15	Log/Pole	13		Black Ash	Low		Variable	Sapling
Northern White Cedar	1	Log/Pole	12		Black Cherry	Low		Variable	Sapling
Balsam Poplar	37	Log/Pole	12	60	Honeysuckle (spp.)	Trace		< 5 feet	Tall Shrub
Black Cherry	2	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling
White Pine	5	Log/XLog	16		Willow spp.	Low		10 - 20 feet	Tall Shrub
					Nannyberry	Trace		10 - 20 feet	Tall Shrub
					Red Osier Dogwood	Low	< 5 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>33</b>	6120 - Lowland Cedar	Poletimber Well	20.5	85	111-140	N/A	Stand composition is rather variable, except that cedar and fir are the consistent components, though present in various densities and size classes. Attached map better describes the diversity on the ground. Peepers present in north half in areas dominated by lowland shrubs and grass. White pine are scattered, though most prominent on the north edge along with black cherry. Southern acreage and some of the north are very characteristic of a Rich Conifer Swamp natural community and could be included with the ERA to the south.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	5	Log/Pole	14		Willow spp.	Trace		10 - 20 feet	Tall Shrub
Hemlock	1	Log/Pole	12		Black Cherry	Trace		Variable	Sapling
Black Cherry	2	Pole/Sap/Log	6		Black Ash	Low		< 5 feet	Sapling
Yellow Birch	2	Pole/Log/Sap	8		Balsam Fir	Medium		Variable	Sapling
Northern White Cedar	62	Pole/Log	8	85	Tag Alder	Low		Variable	Tall Shrub
Tamarack	2	Log/Pole	12		Japanese Barberry	Trace		< 5 feet	Tall Shrub
White Pine	3	XLog/Log/Pole	18						
Balsam Poplar	2	Pole/Log/Sap	6						
Red Maple	5	Pole/Log/Sap	8						
Balsam Fir	15	Pole/Log/Sap	7						
Paper Birch	1	Pole/Log	8						
<b>34</b>	6112 - Lowland Aspen	Sawtimber Medium	9.7	71	51-80	N/A		Trace paper birch, elm, black ash in canopy. Rare black cherry, red maple, white spruce in subcanopy. Observed two decent sized clumps of barberry, very well established.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Balsam Fir	5	Log/Pole	12		Tag Alder	Low	Variable		Tall Shrub
Quaking Aspen	70	Log/Pole	12	71	Grape Vine	Trace	Unspecified		Vine
Balsam Poplar	25	Log/Pole	10		Honeysuckle (spp.)	Trace	Variable		Tall Shrub
					Red Osier Dogwood	Low	< 5 feet		Tall Shrub
					Japanese Barberry	Trace	< 5 feet		Tall Shrub
					Northern White Cedar	Trace	>20 feet		Pole
					Nannyberry	Low	10 - 20 feet		Tall Shrub
					Balsam Fir	Low	Variable		Sapling
					Black Ash	High	Variable		Sapling
					Balsam Poplar	Low	Variable		Sapling
					Paper Birch	Trace	>20 feet		Sapling
<b>35</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.1	89	1-50	N/A	Trace elm, red maple, larch in canopy. Rare yellow birch, larch in subcanopy. A lot of dead ash, sap/pole; significant coarse woody debris. Decent cedar regen, though browsing pressure is persistent and sapling mortality is high. Porcupine in northeast. Decline and some mortality in some log/pole cedar. South tip is pole/log cedar and fir with larch, red maple. High stocking of paper birch in northwest. Cored cedar put on about 1" of girth in the last 12 years, a considerable improvement from the first 65 years, coinciding with ash decline from EAB.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1	XLog/Log	18		Balsam Fir	Medium		Variable	Sapling
Yellow Birch	2	Sapling/Pole/Log	4		Northern White Cedar	Low		Variable	Sapling
Quaking Aspen	2	Pole/Sapling	6		Willow spp.	Trace		>20 feet	Tall Shrub
Northern White Cedar	30	Pole/Sap/Log	6	89	American Elm	Trace		>20 feet	Sapling
Black Ash	30	Sapling	2		Tag Alder	Low		10 - 20 feet	Tall Shrub
Paper Birch	5	Sapling/Pole	4		Black Ash	High		Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>36</b>	6120 - Lowland Cedar	Sawtimber Well	3.0	103	51-80	N/A	North is cedar dominated, center is more of a deciduous mix, south is balsam fir dominated with cherry. Trace black ash, black cherry, elm in canopy.		
	<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	50	Log/Pole	14	103	Tag Alder	Low	Variable	Tall Shrub
	Tamarack	2	Log/Pole	13		Black Cherry	Trace	Variable	Sapling
	Red Maple	5	Log/Pole	12		Quaking Aspen	Trace	< 5 feet	Sapling
	Quaking Aspen	28	Log/XLog/Pole	16		Michigan Holly	Trace	5 - 10 feet	Tall Shrub
	Paper Birch	5	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
	Balsam Fir	10	Pole/Log	8		Nannyberry	Trace	10 - 20 feet	Tall Shrub
						Japanese Barberry	Trace	< 5 feet	Tall Shrub
						Black Ash	Trace	< 5 feet	Sapling
<b>37</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	45.3	88	81-110	N/A	Field observations from many spots along the north and east perimeter of the stand. Excessive blowdown making access and operations very challenging. Trace paper birch observed. Although balsam fir is dominating the regen, there's still a good amount of larch, cedar, and white pine coming up. I'd guess that aspen and birch are both regenerating as well.		
	<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	2	Pole/Log	8		Cattail spp.	Trace	Unspecified	Non-Wood
	White Pine	15	XLog/Log/Pole	18		Tamarack	Medium	Variable	Sapling
	Black Spruce	25	Pole/Sap/Log	7		Balsam Fir	High	Variable	Sapling
	Northern White Cedar	38	Pole/Log/Sap	7	88	Black Spruce	Low	Variable	Sapling
	Tamarack	15	Log/Pole	10		Red Maple	Trace	Variable	Sapling
	Balsam Fir	5	Pole/Sap/Log	6		White Pine	Low	Variable	Sapling
						Tag Alder	Low	Variable	Tall Shrub
<b>38</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Well	13.0	63	51-80	N/A	Highly variable stand. Old grade in the east. Snowmobile trail (abandoned section?) through east tip. Utility box on the north edge in the CR R/W. Trace black spruce, hemlock, white pine, white ash in canopy. Rare willow, balsam poplar, ninebark, autumn olive, grape, serviceberry, alternate leaf dogwood, cattails, swamp milkweed, and beech in subcanopy. Excessive browse on black ash, though a lot has recovered and is above browse height. Yellow birch picks up in northwest. East half of stand has a much higher stocking of canopy and subcanopy balsam fir. Northwest tip opens up to red maple, black cherry dominated with trace japanese knotweed*. *Japanese knotweed is identified in the subcanopy as "Unlisted".		
	<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	5	Log/Pole	12		Black Ash	High	Variable	Sapling
	Yellow Birch	1	Log/Pole	12		White Pine	Trace	Variable	Sapling
	Quaking Aspen	40	Log/Pole	12	63	Red Osier Dogwood	Trace	5 - 10 feet	Tall Shrub
	Balsam Poplar	5	Log/Pole/Sap	10	63	Black Cherry	Low	Variable	Sapling
	American Elm	1	Pole/Log/Sap	6		Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub
	Northern White Cedar	25	Pole/Log/Sap	8		Tag Alder	Medium	10 - 20 feet	Tall Shrub
	Black Cherry	5	Pole/Log	8		Unlisted - See Comments	Trace	5 - 10 feet	Non-Wood
	Balsam Fir	10	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
	Paper Birch	3	Pole/Log/Sap	8		Michigan Holly	Low	Variable	Tall Shrub
	Red Maple	5	Log/Pole	12		Nannyberry	Trace	10 - 20 feet	Tall Shrub
						Apple (spp.)	Trace	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**39** 6129 - Mixed Coniferous Lowland Forest Poletimber Well 176.9 97 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	1	Pole/Log/Sap	6	
Black Spruce	20	Pole/Sap/Log	7	
Balsam Fir	4	Pole/Log	8	
White Pine	5	Log/XLog/Pole	16	
Northern White Cedar	44	Pole/Sap/Log	6	97
Tamarack	25	Pole/Log/Sap	8	
Balsam Poplar	1	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Trace	Variable	Sapling
Black Ash	Low	Variable	Sapling
Red Osier Dogwood	Trace	< 5 feet	Tall Shrub
Labrador Tea	Low	< 5 feet	Tall Shrub
Black Spruce	Trace	< 5 feet	Sapling
Cattail spp.	Trace	Unspecified	Non-Wood
Balsam Fir	Low	Variable	Sapling
Tag Alder	Low	Variable	Tall Shrub
Phragmites (exotic)	Trace	Unspecified	Non-Wood
White Pine	Trace	Variable	Sapling

Trace paper birch, quaking aspen in the canopy. Rare honeysuckle in the subcanopy. Phragmites in northeast, <1/2 acre. Canada thistle and reed canary grass present. Deer and coyote tracks through stand. Deer have majorly simplified the subcanopy except where excessive blowdown has occurred. These pockets of blowdown are jackstrawed messes, nearly impossible to get through. Intermittent streams throughout the stand. Balsam fir dominates gaps (high to full stocking in areas); cattails, alder, larch, black spruce, black ash saplings occupying gaps, too. Lot more alder with black ash saps in the west central portion of stand closer to the river. There's some pretty nice Log/Xlog white pine scattered, somewhat clumpy.

**40** 6220 - Alder/willow Nonstocked 3.4 0 Unspecified No Alder swale; potentially a very, very old oxbow.

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Trace	>20 feet	Sapling
Tag Alder	Full	10 - 20 feet	Tall Shrub
Northern White Cedar	Low	>20 feet	Sapling
Willow spp.	Trace	Variable	Tall Shrub
Bristly Green Brier	Trace	5 - 10 feet	Vine
Nannyberry	Trace	10 - 20 feet	Tall Shrub
Quaking Aspen	Trace	>20 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Japanese Barberry	Trace	< 5 feet	Tall Shrub
Michigan Holly	Trace	< 5 feet	Tall Shrub

**41** 6118 - Lowland Deciduous with Cedar Poletimber Well 9.5 39 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	15	Sapling/Pole/Log	4	
Northern White Cedar	20	Pole/Sap/Log	6	39
Balsam Poplar	15	Log/Pole/Sap	10	
Paper Birch	15	Pole/Sap/Log	6	
Balsam Fir	15	Pole/Sapling	7	
Quaking Aspen	20	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	10 - 20 feet	Tall Shrub
Hemlock	Trace	10 - 20 feet	Sapling
Black Ash	Low	Variable	Sapling
Northern White Cedar	Trace	Variable	Sapling
Willow spp.	Trace	10 - 20 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling

Scattered rotten log and xlog stumps. Trace hemlock and cedar saplings regenerating underneath pole paper birch, quaking aspen. Cedar is log-dominated in the west leg, otherwise pole. Far northeast tip is also more log dominated, but by aspen with cedar. Old barbed wire fence along east edge against private. Trace red maple (12" Log/Pole) and white pine (20" Xlog/Log) present in far west; absent elsewhere. Trace elm (pole) associated with white pine. Trace hemlock scattered in canopy (12" log/pole). Rare beech, black spruce in subcanopy. A visit in the spring revealed a dense layer of jackstrawed cedar and fir. Orientation indicates a swath of mortality and subsequent blow-down (single tree and group). This has produced a stand of nice quality, diverse swamp conifer and broadleaf trees.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>42</b>	429 - Mixed Upland Conifers	Sawtimber Well	6.3	200	141-170	N/A	Trace paper birch, white ash, ironwood, white spruce in canopy. Rare white spruce in subcanopy. Two tagged witness trees in west; did not observe a corner. Edges drop into lowland. Cedar is multi-stemmed for the most part.																																																																															
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<b>43</b>	6220 - Alder/willow	Nonstocked	0.4	0	Unspecified		Above ground utility lines. Site maintained.														
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<b>44</b>	6220 - Alder/willow	Nonstocked	4.5		Unspecified	No	Dead pole elm scattered evenly. South tip of eastern island is still alder dominated but much less dense and shorter; an increase in red osier dogwood and nannyberry.																																																										
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<b>46</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.0	77	51-80	N/A	Diverse, clumpy stand. Trace basswood, elm, larch, white ash in canopy. Rare hazelnut, bam, apple, larch, beech in subcanopy. Significant coarse woody debris in center and towards north end of stand. Portions in the south and along the west edge are low; some seasonal inundation. Pocket of dense cedar in the south; area of dense larch, cedar, and pine south of that. Trace bigtooth aspen on the south perimeter.																																																																																
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<b>99</b>	4110 - Sugar Maple Association	Sawtimber Well	41.0	89	81-110	N/A	Trace elm, white pine, hemlock, white ash, paper birch, black cherry in canopy. One striped maple sap in northeast. Northeast is stocked with impressive sugar maple saplings, progeny of scattered Xlog sugar maple. East leg has a high stocking of dead beech with a lot of coarse woody debris. Clustered (and some scattered) hemlock in the southern portion. Southern part of western portion is heavier to pole timber with an increased volume of dead ash (standing and toppled). Northern part of western portion is marginal in quality. Steep slopes into the valley with King Road.																																																																																
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