



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52164

Entry Year 2020

Acreage: 423

County Cheboygan

Management Area: Mackinaw Lake Plain

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**Revision Date:** 2018-04-17

**Stand Examiner:** Tricia St. Pierre

**Legal Description:**

T39N R03W Sections 27 and 34.

Section 27: SWSE;

Section 34: NW, SW except SWSW, W1/2NE, N1/2N1/2N1/2SE except private parcels.

**Identified Planning Goals:**

Ownership consolidation in Sec 34: N1/2N1/2N1/2SE.

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 and its residents. Protection should include eradication of invasive species, such as phragmites and multiflora rose, capable of displacing native species. Commitment to maintaining and regenerating a composition and density of desirable species should be the primary concern when making management decisions across the landscape.

**Soil and topography:**

Topography is flat to gently sloping. A slight change in elevation can have a significant impact on vegetation. There are many streams and depressions across the landscape making BMP compliance of high importance.

Peats, loams, sands, and combinations thereof, dominate this compartment, with lesser amounts of muck, histosols, and aquents. The sandy soils support much of the higher quality hardwood and aspen, while the loams support better quality cedar and lowland conifers. Peat seems to be continuously inundated, vegetated by stunted lowland conifers, ash, and occasional aspen.

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

Ownership around this compartment makes access difficult. Most boundaries, except for the west, are adjacent to private property. Land use is rural housing, light forest management, and recreational hunting. There are blinds and tree stands in and around this compartment for deer hunting.

The east leg (Sec 34: N1/2N1/2N1/2SE) is not contiguous State ownership; there are still private parcels in what was once subdivided for development. The State should continue to work towards ownership of these parcels to consolidate ownership in this block.

**Unique Natural Features:**

There are no reported unique natural features within this compartment, however the potential exists. MNFI shows great potential for *Eleocharis compressa*, threatened. Many areas are suitable for raptor nests, T&E plants and animals, and other features specific to lowland and edge habitat.

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

There is a known archaeological site in section 27.

There are no records of logging or leases within this compartment, leaving one to speculate the history of this area. There is evidence of both natural and man-made disturbance, also damage from invasive species, like the Emerald Ash Borer. Beaver damage, fire, and wind disturbance are among the most prominent influences across the landscape. Most of this compartment was acquired during the first half of the 20th century from tax reversion, though some deeds occur in the 1960s and '70s, and occasionally into the 2000s. The history of neighboring Mill Creek and the ages of these forest communities imply private logging from the late 1800s. It is unlikely that this lowland complex would have been homesteaded or cultivated, but old fences, an orchard, and the proximity to flowing water suggest that the driest land in the north was used for grazing or other livestock containment.

**Special Management Designations or Considerations:**

Gaps prove an essential function in the perpetuation of these forest types. It is rare to find regeneration, especially cedar, outside of tangled messes. Balsam fir seems to be less preferred by deer, but everything else, including ash species, maples, oak, and aspen, have a difficult time making it above browse height. A private 40 had been clearcut in 2007 and the results demonstrate the effects of browsing and saturated soils on regeneration. There are many ruts and areas coming back to bulrush, cattails, and other non-forested species. Managed stands with forested objectives may require a longer time to adequately regenerate considering local site conditions and browsing pressure.

The Dingman Marsh Flooding State Wildlife Management Area is immediately south of this compartment.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

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

Sections 27 & 34, T39N-R3W, Cheboygan County

Sand/gravel pits are located in the area. There is some gravel potential within the compartment as well as limestone potential. Numerous limestone test wells were previously drilled in the area, but there has been no development in this area. Potential for surface mining may be limited due to extensive wetlands. There is no known oil and gas potential in the area and there is currently no active mineral leasing.

**Vehicle Access:**

There is no vehicular access to the interior of this compartment and hardly any access to the perimeter. Even the east parcel abutting Hebron Mail Route is blocked by a major ditch. The northeast-most corner of this compartment barely touches Old Mackinaw Road, and without a known property corner (except a suspect rebar next to a utility box), this might not even be legal access. Permission would need to be granted from private ownership for any management activity.

**Survey Needs:**

There are very few definitive corners within this compartment, and the corners that were located seemed questionable. There are no imminent survey needs, unless Wildlife Division pursues habitat cuts adjacent to private property.

**Recreational Facilities and Opportunities:**

There are no recreational facilities affected by this compartment. The North Central State Trail (Gaylord to Mackinaw City) runs in close proximity to the northern boundary but does not cross. Historic Mill Creek Discovery Park sits immediately adjacent to the northwest corner of this compartment, providing educational and recreational opportunities from May through October. Hunting is the only known recreational pursuit within this compartment.

**Fire Protection:**

This is an extremely wet compartment. Although fire danger is low, fire has been an important feature in these lowland forests on a very long interval cycle. Fire suppression efforts should follow current DNR policies and guidelines. Since legal access to the compartment is unknown and/or limited, the best access will be across private property from the east or south. Drafting may come from nearby creeks, but would be most reliable from Mill Creek (to the west) or Lake Huron (unknown legal access).

**Additional Compartment Information:**

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

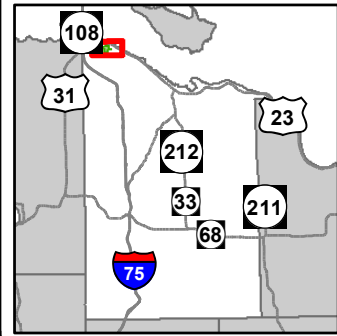
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

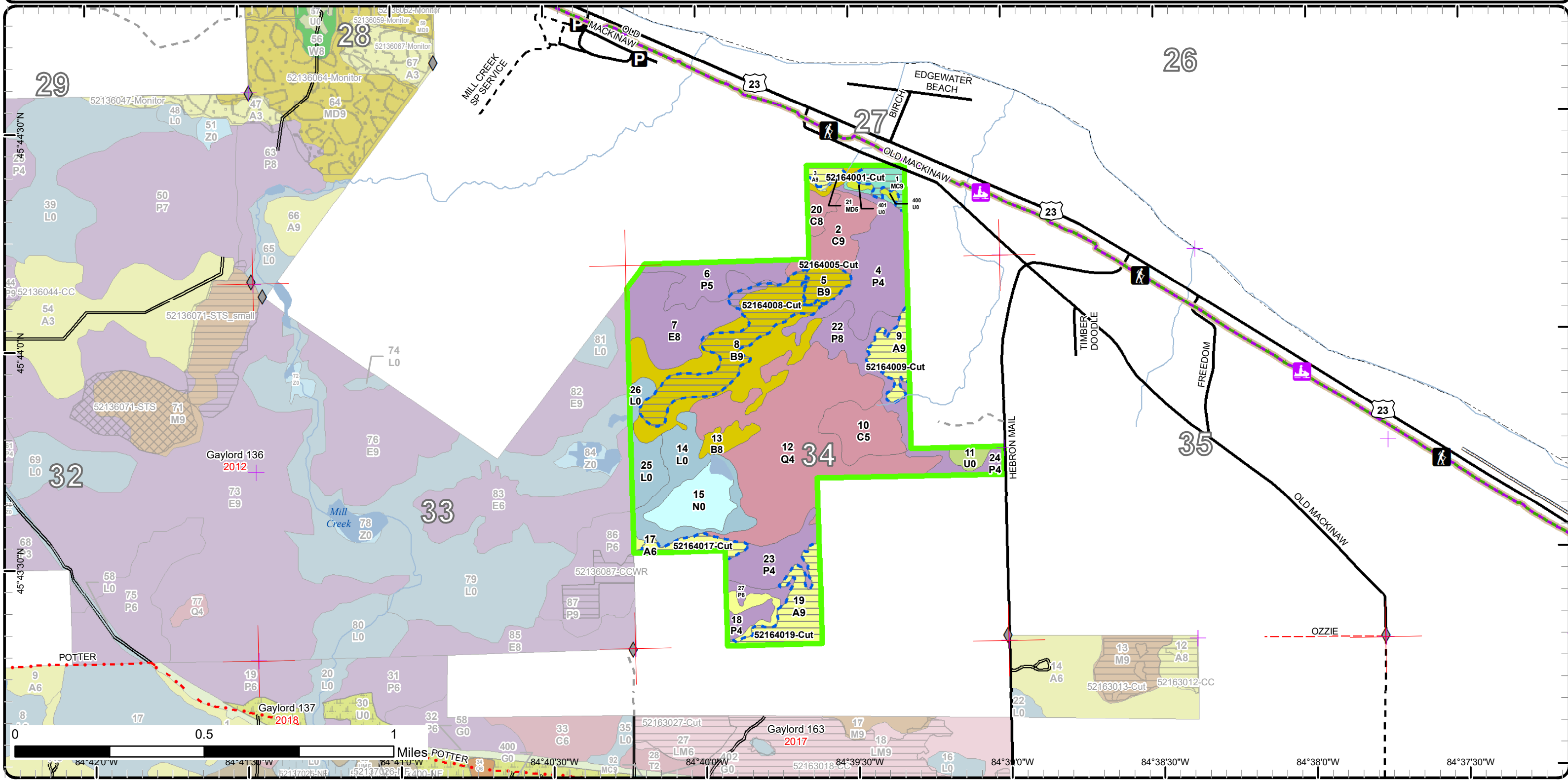
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 164  
 T39N, R03W, Sec. 27, 34  
 County: Cheboygan  
 Unit: Gaylord  
 Mgmt Area: Mackinaw Lake Plain  
 YOE: 2020  
 Acres: 423 GIS Calculated  
 Examiner: Tricia St. Pierre  
 Map Revised: 10/1/2018  
 Map Phase: Post-Review

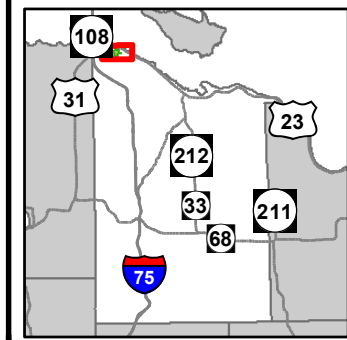


- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Parking Lot
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

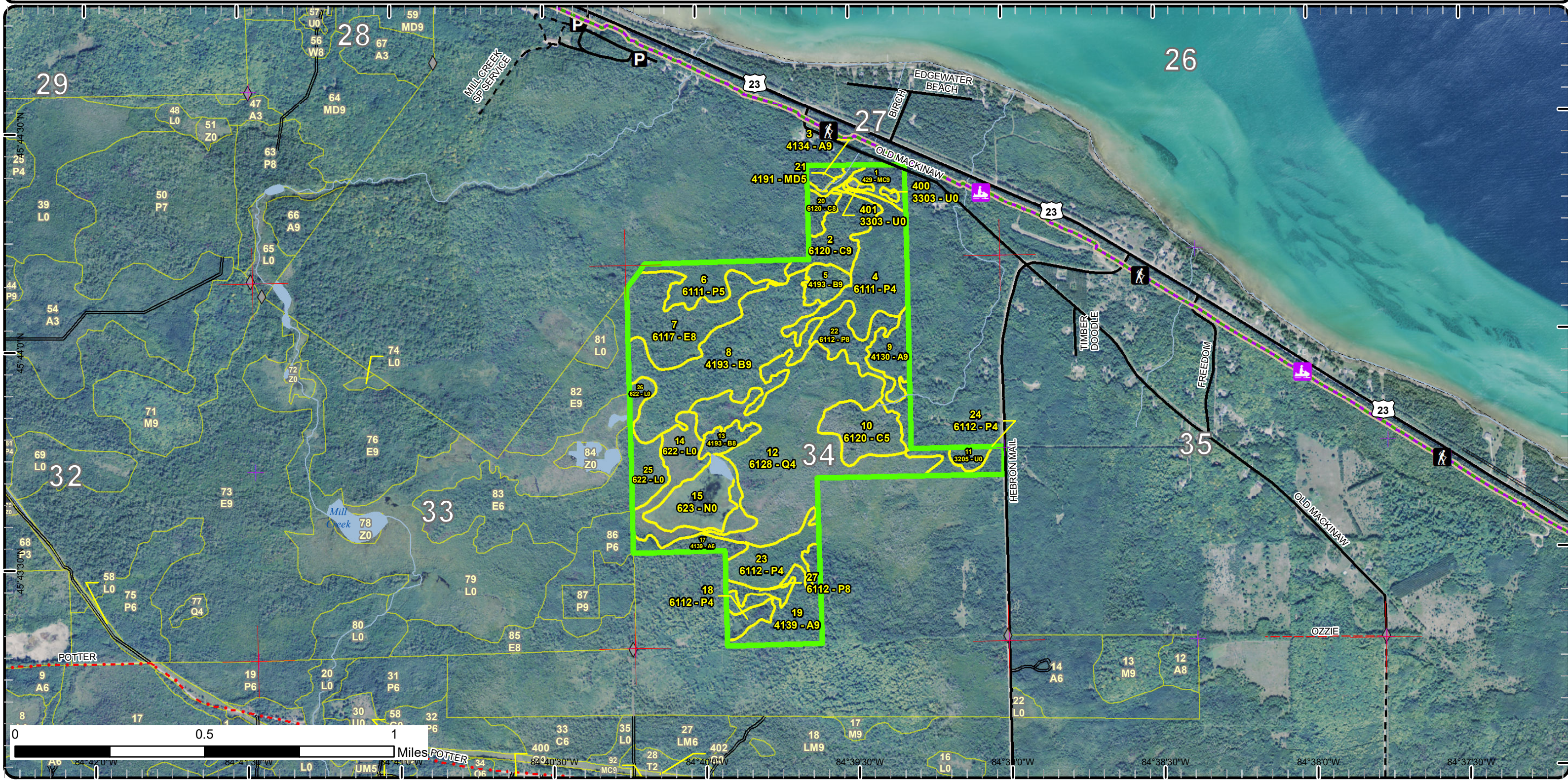


# Stand Boundary Map

Compartment: 164  
 T39N, R03W, Sec. 27, 34  
 County: Cheboygan  
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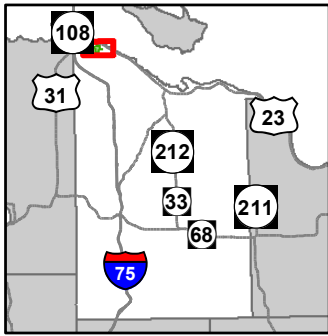


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
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- Horse Trails
- Snowmobile Trails
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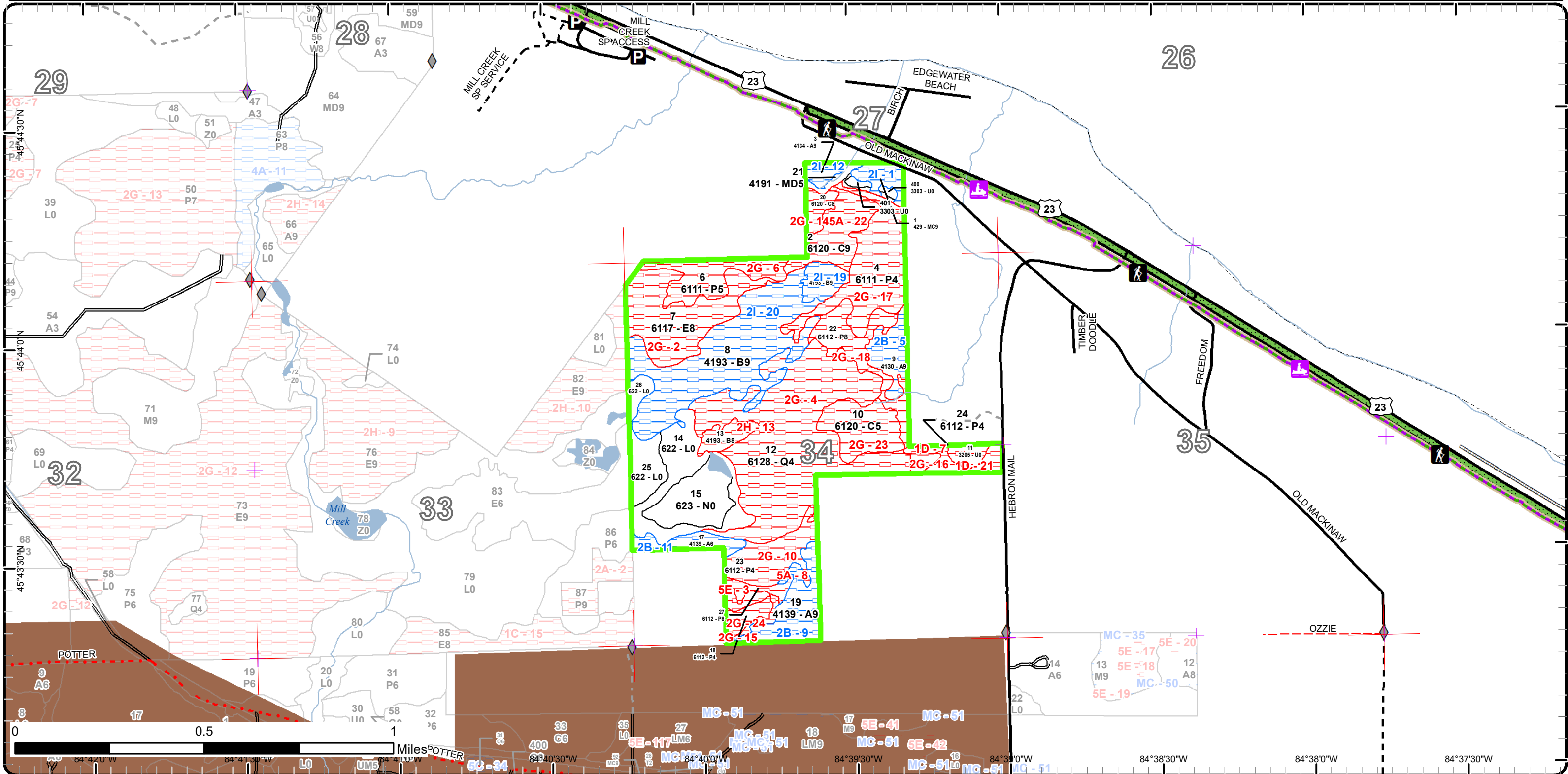


# Special Conservation Areas & Site Conditions Map

Compartment: 164  
 T39N, R03W, Sec. 27, 34  
 County: Cheboygan  
 Unit: Gaylord  
 Mgmt Area: Mackinaw Lake Plain  
 YOE: 2020  
 Acres: 423 GIS Calculated  
 Examiner: Tricia St. Pierre  
 Map Revised: 10/1/2018  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
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- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
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- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- Designated RailTrail
- P Parking Lot
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 1D: Interest Group / Neighbor
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas
- Rail-Trail Corridor



Map coordinates: 84°42'0"W, 84°41'30"W, 84°41'0"W, 84°40'30"W, 84°39'30"W, 84°39'0"W, 84°38'30"W, 84°38'0"W, 84°37'30"W



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	0	0	0	0	0	3	21	17	0	0	0	0	0	41
Cedar	0	0	0	0	0	0	0	0	0	0	16	16	0	4	0	0	0	0	36
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	0	0	22	30	16	0	0	0	4	16	0	3	0	0	0	0	91
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	89
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	32
Lowland Shrub	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Marsh	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Paper Birch	0	0	0	0	0	0	0	0	0	0	6	5	59	0	0	0	0	0	70
Upland Conifers	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	6
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>55</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>30</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>38</b>	<b>179</b>	<b>76</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>422</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 164

Total Compartment Acres: 423

Commercial Harvest -  
 Harvests with Site Condition - 78  
 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	36	0	0	0	0	0	0	0	0	36
Paper Birch	37	0	0	0	0	0	0	0	0	37
Upland Conifers	6	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>78</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	78	0	0	0	0	0	0	0	0	78
Next Step	0	0	0	0	0	0	78	0	0	78
<b>Total</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>156</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	52164001-Cut	5.7	429 - Mixed Upland Conifers	Sawtimber Well	98	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal

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

Prescription Clear at all trees to 2", except do not cut any cedar or underrepresented species if found, including any fruit trees. Comply with BMPs along stream corridor. No retention due to small stand size and objectives, however, areas may be excluded due to BMPs and/or low, inoperable ground. Mark leave trees (emphasize XL trees) for seed source and travel corridor considerations.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for mixed deciduous trees. The inclusion of conifers in any stocking level will be acceptable.

Other Comment:

Proposed Start Date: 10/1 /2018

3	52164003-Cut	2.6	4134 - Aspen, Spruce/Fir	Sawtimber Well	94	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No**      **Site Condition: Survey Needed**

Prescription Clear at all trees to 2", except do not cut any cedar or underrepresented species if found. Comply with BMPs along stream corridor. No retention due to small stand size and objectives, however, areas may be excluded due to BMPs and/or low, inoperable ground.

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

Acceptable Regen: Acceptable regeneration will meet minimum socking requirements for aspen. The inclusion of any hardwood or conifers will be acceptable at any level.

Other Comment:

Proposed Start Date: 10/1 /2018

5	52164005-Cut	6.3	4193 - Birch, Aspen	Sawtimber Well	95	141-170	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No**      **Site Condition: Survey Needed**

Prescription Clearcut all trees to 2" except any underrepresented species, leaving slash scattered on site. No chipping. Expand treatment to include operable ground in adjacent stands, as accessible. Harvest area may be less than 75% of prescribed acreage depending on operability and accessibility in/around low areas. Create opportunities to enhance grouse and hare habitat by designating trees for drumming logs and to be hinge-cut. Harvest in frozen conditions only. Long term retention has not been designated due to small stand size, however, unoperable ground may be coded as LTR and too wet if found during timber sale prep.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for mixed hardwood and aspen. The inclusion of conifer in any level will be acceptable.

Other Comment:

Proposed Start Date: 10/1 /2018

8	52164008-Cut	30.3	4193 - Birch, Aspen	Sawtimber Well	111	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No**      **Site Condition: Survey Needed**

Prescription Clearcut all trees to 2" except any underrepresented species. Expand treatment to include operable ground in adjacent stands, as accessible. Harvest area may be more or less than 25% of prescribed acreage depending on operability and accessibility in/around low areas. Create opportunities to enhance grouse and hare habitat by designating trees for drumming logs and to be hinge-cut. Harvest in frozen conditions only.

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

Acceptable Regen: Acceptable regen will meet minimum stocking for mixed hardwood and aspen. The inclusion of conifers in any amount will be acceptable.

Other Comment:

Proposed Start Date: 10/1 /2018





Standa	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
9	52164009-Cut	9.8	4130 - Aspen	Sawtimber Well	112	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Approved Proposal

**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Cut all trees to 2" dbh except do not cut sugar maple or spruce. Do not cut underrepresented species, if found. Exclude saturated soils from harvest boundary, otherwise no retention due to small stand size. No chipping - slash must be left on site, scattered evenly.  
Specs: Designate at least one aspen per acre to be cut and left as a drumming log. Encourage leaving balsam fir jackstrawed if possible for hare habitat.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking standards for aspen. The inclusions of hardwood and/or conifers in any amount will be acceptable.

Other Comment: Minimize landing size.

Proposed Start Date: 10/1 /2019

17	52164017-Cut	6.2	4139 - Aspen, Mixed Deciduous	Poletimber Well	117	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Clearcut all trees to 2" dbh, retaining oak and pine. No retention due to small stand size, however portions may be inoperable due to saturated soils and should be excluded from harvest boundary.  
Specs: Mark at least one balsam fir per acre to hinge cut for hare habitat. Designate at least one aspen per acre to be cut and left as a drumming log.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking standards for aspen. The inclusions of hardwood and/or conifers in any amount will be acceptable.

Other Comment: Treat with C136-87 if/when granted access.

Proposed Start Date: 10/1 /2019

19	52164019-Cut	17.0	4139 - Aspen, Mixed Deciduous	Sawtimber Well	108	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No**      **Site Condition: Unknown Access**

Prescription Clearcut all trees to 2" dbh, retaining spruce, cedar, and hemlock. Rare or underrepresented species may also be excluded from harvest (i.e. oak, if found). Portions may be inoperable due to saturated soils and should be excluded from harvest boundary. No chipping - slash must be left on site and scattered.  
Specs: Mark at least one balsam fir per acre (if available) to hinge cut for hare habitat. Designate at least one aspen per acre to be cut and left as a drumming log.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking standards for aspen. The inclusions of hardwood and/or conifers in any amount will be acceptable.

Other Comment: Depending on density and distribution of hemlock, leave trees may be strategically marked to protect hemlock crowns from harvest damage and/or leaf scorch.

Proposed Start Date: 10/1 /2019

**Total Treatment Acreage Proposed: 77.9**

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre : Examiner

Compartment: 164  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions							
		With Condition				2B	2I	1D	2G	2H	5A	5E	
41	0	37		4	Aspen	34	3		2				3
36	0	0		36	Cedar				20			16	
1	1	0		0	Low-Density Trees								
92	0	0		92	Lowland Aspen/Balsam Poplar			6	82			3	
89	0	0		89	Lowland Conifers				89				
32	0	0		32	Lowland Deciduous				32				
33	33	0		0	Lowland Shrub								
17	17	0		0	Marsh								
2	2	0		0	Mixed Upland Deciduous								
70	0	65		5	Paper Birch		65			5			
7	1	6		0	Upland Conifers		6						
3	0	0		3	Upland Shrub			3					
423	55	107		261	Total Forested Acres	34	74	10	224	5	19	3	
	13%	25%		62%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2I: Survey needed	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
This portion is somewhat difficult to access from the east and has some sensitive drainages within and around it. Use as long term retention.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 164

Tricia St. Pierre : Examiner

Year of Entry: 2020

4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	87	3J: Water quality / BMPs (stream, river, or lake)	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	2B: Unknown if access through adjacent landowner(s) is possible	10	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Nearby land transaction may provide survey corners in/around this section. Postpone survey request or keep treatment boundary off of private line.							
6	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	1D: Interest Group / Neighbor	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> DIVIDED PARCELS WITHIN THIS BLOCK OF LAND.							
8	<b>Unavailable</b>	5A: Not able to obtain desirable regeneration	3	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	2B: Unknown if access through adjacent landowner(s) is possible	17	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Nearby land transaction in progress may provide adequate corners in this section. Postpone survey request.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 164

Tricia St. Pierre : Examiner

Year of Entry: 2020

10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	15	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Land transaction in progress will determine accessibility to adjacent compartment (west), which might provide access to this stand. Seasonal conditions may restrict harvest timeline/access, as the west portion drops into rather wet ground.							
12	<b>Available</b>	<b>2I: Survey needed</b>	3	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 164

Tricia St. Pierre : Examiner

Year of Entry: 2020

15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Saturated soils year round transitioning into P-type. Treatment may push into this area if operable portions are found.							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	3J: Water quality / BMPs (stream, river, or lake)	4A: No Markets Available for these Forest Products	1D: Interest Group / Neighbor	Unspecified
<b>Comments:</b> DIVIDED PARCELS WITHIN THIS BLOCK OF LAND.							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	30	5A: Not able to obtain desirable regeneration	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	16	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Available</b>	<b>2I: Survey needed</b>	6	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre : Examiner

Compartment: 164  
Year of Entry: 2020

20	Available	2I: Survey needed	59	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	1D: Interest Group / Neighbor	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> THIS PORTION IS NOT ENTIRELY STATE-OWNED. THERE ARE STILL PRIVATELY OWNED LOTS WITHIN THIS SUBDIVISION.							
22	Unavailable	5A: Not able to obtain desirable regeneration	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	5A: Not able to obtain desirable regeneration	5B: Maintain for regeneration purposes	4A: No Markets Available for these Forest Products	Unspecified
<b>Comments:</b>							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Mgt. Unit

Compartment:

Year of Entry



## 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	429 - Mixed Upland Conifers	Sawtimber Well	6.5	98	81-110	<p>OPIC - FMD: THIS IS A DRY SITE. ASPEN, MAPLE AND BIRCH ARE FOUND IN THE NORTHEAST CORNER BUT THE BULK OF THE STAND IS UPLAND SPRUCE/FIR WITH SCATTERED WHITE PINE.</p> <p>Previous comments sum up this stand very well. Red maple, paper birch, and bigtooth aspen are also in the far west with white pine, spruce, and cedar. Couple scattered apple trees, especially between the two NFOs. BAs vary, 20-140, averaging 82. Mode 80.</p>
2	6120 - Lowland Cedar	Sawtimber Well	15.6	94	141-170	<p>Log stand with dense pockets of pole (white spruce and white cedar pockets).</p> <p>A couple pockets of dense tangled blow-down, mostly on the west edge between stands 2 and 20. Good cedar regen in these areas, though. Appears upland in areas, but the watertable is immediately beneath the soil. Tip-ups common. Trace sugar maple, white ash on east edge of stand. Areas of very dense white spruce, pole/log/sap. Otherwise, white spruce is scattered amongst white cedar, mostly log &gt;14". Scattered aspen clones.</p>
3	4134 - Aspen, Spruce/Fir	Sawtimber Well	3.1	94	81-110	<p>East edge is heavy to quaking aspen, paper birch, white ash, red maple, and balsam fir; adjacent to stream corridor.</p> <p>BAs range 50-130, averaging just over 80.</p> <p>Slightly upland stand with low pockets, especially to west and south.</p>
4	6111 - Lowland Balsam Poplar	Poletimber Poor	30.1	48	51-80	<p>Areas of dense sapling quaking aspen and black ash.</p> <p>Significant water flow throughout the stand; stream flowing from south to north. "Uplandy" areas, especially in the south and central portions of this stand, supporting more log quaking aspen and BAM. Few residual log timber along stream corridor. Scattered pockets or veins of cedar, primarily log. Trace yellow birch and willow. A lot of sapling black ash is starting to mix into the canopy.</p>
5	4193 - Birch, Aspen	Sawtimber Well	6.3	95	141-170	<p>Few pole ironwood under bigtooth aspen. Trace amounts of sugar and red maple saplings. One significant aspen clone surrounded (mostly) by birch and maple with scattered quaking aspen.</p> <p>Trace white spruce in canopy. A lot of pole SM.</p> <p>BAs vary: 70, 150 (BTA clone), 140 (BTA clone), 50, 90.</p>
6	6111 - Lowland Balsam Poplar	Poletimber Medium	15.9	55	1-50	<p>Areas of rather dense sapling/pole black ash. I included this in the canopy since this stand is dominated by saplings mixing in with pole timber. Trace white cedar, yellow birch, elm, red maple. QA is mostly on the perimeter and on drier ridges in stand.</p> <p>Small non-forested opening in west with alder and michigan holly. The far east is ever so slightly upland and should probably be lumped in with stand 2. Either way, it's a small inclusion, abruptly cut off from the rest of stand 6 with a small stream.</p> <p>One hazelnut shrub.</p>
7	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	31.6	106	51-80	<p>There are a couple dry-ish, though not upland, areas to this stand. Multi-stemmed red maple, some paper birch. Lot of balsam fir blow down, QA too. Wet drainages throughout the stand generally flow north. One dead hemlock, couple dead elm. A handful of very poor quality sugar maple saplings/poles. Trace red oak saplings &lt;5'. White cedar is largely confined to the north half of the stand.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
8	4193 - Birch, Aspen	Sawtimber Well	58.7	111	81-110	<p>Pockets of dense white ash regen; pockets of dead log/pole ash. EAB.</p> <p>Many wet pockets; water flows through stand. Occasional burn scars on stumps.</p> <p>Sugar maple (lesser quality)/red maple/paper birch on real upland sites with trace oak, ironwood, beech, and hazelnut. Elsewhere, the stand is dominated by BTA, QA, BF. One tiny pocket in southwest with trace basswood, hazelnut, and leatherwood. BAs range 50-150.</p>
9	4130 - Aspen	Sawtimber Well	9.8	112	81-110	<p>South half of main bubble is situated on a knob with very little regen aside from pole sugar maple and striped maple - overstory BTA. North half, south bubble, and perimeter pick up a significant component of balsam fir in the subcanopy. BAs range 80-180.</p> <p>One pole red oak. Trace white cedar.</p> <p>Couple of lower pockets in the north and south that could be moist.</p>
10	6120 - Lowland Cedar	Poletimber Medium	16.2	100	81-110	<p>This is a very neat stand. One that you can sort of walk around. Cedar is regenerating, mostly in areas obstructed from browse - black spruce too (especially in west under cedar). Variability of composition and density: patchy with some very dense pockets of cedar poles, pockets of log timber with mixed aspen, and yet some areas of saplings. Small upland knob in northeast with QA, RM, BTA L/X/P. Fragile, shallow soils. BAs range 60-140.</p>
12	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	88.7	105	1-50	<p>A very messy lowland complex, but a self-perpetuating pole/sapling stand. Flowing water, crazy variability throughout in composition and density. Couple of small "dry" ridges with quaking aspen, paper birch, red maple, and balsam fir. Some dense pockets of black ash. Couple of beech saplings on those parallel "up" ridges.</p>
13	4193 - Birch, Aspen	Sawtimber Medium	5.1	106	51-80	<p>An isolated stand with declining paper birch; quite a few PB snags already. White cedar is coming up under quaking aspen in the northeast.</p> <p>Cedar occupies the far northeast tip. Interesting change in composition from red maple/balsam fir in west to paper birch/red maple in center, to quaking aspen/white spruce, then to cedar in east.</p> <p>BAs vary 30-120, settling in the 50-80 range.</p>
17	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.8	117	81-110	<p>BAs vary wildly, 60 in west, 200 in aspen clones, 90-140 elsewhere.</p> <p>Far west portion (1 ac) of stand is a small inclusion of lowland quaking aspen, red maple, paper birch, BAM, spruce, and fir that aged at 54 years old; understory of alder, fir, winterberry, and ash.</p> <p>East 6 acres is upland BTA alternating with lowland red maple, ash, fir, and birch. Full balsam fir subcanopy in spots. One 12" red oak. Trace dogwood.</p> <p>Private 40 acres to south was harvested around 2007.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6112 - Lowland Aspen	Poletimber Poor	4.3	95	51-80	<p>OPIC - FMD: THIS IS A DISTINCT SWALE SURROUNDED BY HIGHER GROUND. IF THE ADJACENT STAND IS HARVESTED THIS WET STAND NEEDS TO BE EXCLUDED FROM THE SALE AREA DUE TO THE POTENTIAL FOR SEVERE RUTTING.</p> <p>Aspen is falling out. Ash, alder, balsam fir are mixing in with canopy. A lot of regenerating sapling/pole ash mixing in. Small "high" spot in center of stand supporting red maple.</p> <p>Trace white spruce on edge.</p>
19	4139 - Aspen, Mixed Deciduous	Sawtimber Well	21.2	108	51-80	<p>Unknown corners, though there is a small rod near the SE corner. Survey would be needed of this 40 before harvesting. Private 40 to west was harvested in 2007 with no obvious corners, but lines seem fairly consistent with GPS. Old road along Township line (south edge of compartment), overgrown in most areas. Trace serviceberry and striped maple. Trace beech, white pine (along south edge), quaking aspen, red oak, and white ash scattered throughout this stand. BAs range 30-110, more consistently 50-80. Northwest (sort of removed from main stand) is dominated by QA with cedar, spruce, birch, and fir, with striped maple subcanopy.</p>
20	6120 - Lowland Cedar	Sawtimber Medium	4.2	121	111-140	<p>Cedar hugely benefits from blowdown and layering, though balsam fir and aspen still dominate the gaps created by blowdown. The messier, the more cedar regen.</p> <p>BAs within cedar pockets is 130-170; QA/RM/PB 60-110; elsewhere (including gaps) 10-40.</p> <p>Trace white pine, red pine, yellow birch, and red maple in canopy. Trace beech in subcanopy. Fir and cedar subcanopy is clumpy and variable.</p>
21	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	2.0	94	51-80	<p>This is a stream corridor (and confluence). Most of the stand is upland, except for the back west portion, though the stream has carved a narrow channel and subsequent small floodplain.</p> <p>Trace hemlock in north.</p>
22	6112 - Lowland Aspen	Sawtimber Medium	16.3	104	51-80	<p>Areas dominated by pole quaking aspen, 47 years old.</p> <p>Very patchy stand overall. Fairly consistent QA, otherwise patchy red maple, cedar, spruce. Pockets of black ash (pole/sap) and QA (p/s/l) with alder, winterberry. Scattered pole beech, too. More red maple, trace sugar maple, and more paper birch in far west adjacent to M stand with more definite upland. In another year, this stand could be "upland w/ lowland" instead of "low with up".</p>
23	6112 - Lowland Aspen	Poletimber Poor	15.4	39	1-50	<p>Very wet stand. Stream flowing w--&gt;e. Scattered dead elm. West and south half of stand are more wet and open (still BA sapling dominated) than east.</p> <p>Beaver damage in areas. Pockets dominated by sapling black ash. Some alder makes canopy. One elderberry.</p>
24	6112 - Lowland Aspen	Poletimber Poor	6.3	33	1-50	<p>Stand is heavy to saplings and rather difficult to inventory. More of an alder stand with supercanopy sap/pole mixed deciduous and conifer. Small upland pocket of white spruce, red maple, and quaking aspen to west of U0 type. Northwest leg becomes log quaking aspen and red maple. Could be lumped in with stand 22, but remains consistent with QA overstory in this stand.</p> <p>A few scattered white cedar about.</p> <p>Appears to be a bit of red ash.</p> <p>Trail from private property to south cuts onto Stateland.</p>

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Gaylord Mgt. Unit

Report 7 – Forested Stands

Compartment: 164  
Year of Entry: 2020



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	6112 - Lowland Aspen	Sawtimber Medium	3.4	121	81-110	This is a transitional stand between upland and lowland. It might be operable in the right conditions, but probably wouldn't regenerate to much. Undulating ground, generally sloping north to lowland. Fairly open canopy, but large QA picks up on a lot of BA swings. QA was rotten after ~90 years. 120 is my best guess.



Stand	Cover Type	Acres	Managed Site	General Comments:
11	3205 - Mixed Upland Shrub	3.3	No	OPIC - FMD: AERIAL PHOTOS INDICATE THIS ONCE WAS EITHER A PASTURE OR FARMLAND. IT IS SLOWLY FILLING IN WITH SCATTERED TAG ALDER, SPRUCE AND WHITE PINE. Standing water in December, but appears to be upland except on edges. White pine and spruce present in pole/sap/log. Single occurrence of scotch pine.
14	622 - Lowland Shrub	21.2	No	Old beaver dam in north between stands 8 and 13, disrupting drainage into stand 12. Inventory is based on edge calls from the north and southwest. Very wet stand. More shrub in north (MI holly, alder), more black ash saplings in south. I did not see the eastern portion of this stand where it appears it might be a bit drier. OPIC - FMD: STAND HAS DEAD STANDING TIMBER RESULTING FROM PAST BEAVER FLOODING. IT IS NOT FLOODED THOUGH AT THE PRESENT TIME.
15	623 - Emergent Wetland	17.1	No	OPIC - FMD: THIS IS AN OLD BEAVER MARSH. WITH THE EXCEPTION OF A LARGE BEAVER LODGE IN THE NORTHEAST CORNER, THIS LOOKS FAIRLY DRY AND INACTIVE.
25	622 - Lowland Shrub	9.1	No	Didn't get a good look at this stand. It appears to be <25% canopy of lowland black ash (saps), quaking aspen, BAM, and scattered cedar, spruce, and fir. Unlikely that there will ever be merchantability or operability to this stand.
26	622 - Lowland Shrub	3.2	No	Lowland shrub with some encroaching aspen, only where ground transitions from really wet to wet.
400	3303 - Mixed Low Density Trees	0.6	No	Opening needs to be maintained to keep NFO cover type. Filling in with white spruce (S/P), balsam fir (P/L/S), and white pine ((P/L/S). OPIC - FMD: THIS IS A NATURAL OPENING THAT USE TO BE MUCH BIGGER. IT IS NOW FILLING IN QUITE RAPIDLY WITH CONIFERS.
401	3303 - Mixed Low Density Trees	0.8	No	Opening needs to be maintained to keep NFO cover type. Fillign in with spruce and pine, juniper. OPIC - FMD: THIS IS A NATURAL OPENING THAT USE TO BE MUCH BIGGER. IT IS NOW FILLING IN QUITE RAPIDLY WITH CONIFERS.