



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52150

Entry Year 2026

Acreage: 1,671

County: Cheboygan

Management Area: Wolverine Moraines

**Stand Examiner:** Tricia St. Pierre

## Legal Description:

Cheboygan County, Mentor Township  
T34N R03W  
Section 4: N1/4, SENE, SE, E1/2SW, S1/2SWSW  
Section 5: Portions of the NENE  
Section 9: All  
Section 10: Portions of the SWNW  
Section 15: Portions of the W1/2NW  
Section 16: All except the SESE and the NWSW.

## Identified Planning Goals:

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

The identification, treatment, and monitoring of invasive species and other threats is a priority with implications for the future health, diversity, and productivity of state forest land. These efforts may be accomplished with DNR personnel or in cooperation with local Cooperative Invasive Species Management Areas (CISMAs) and volunteers.

## Soil and topography:

This compartment consists of sandy soils, decent hardwood loams, saturated organic soils, and lesser amounts of surface water and gravel.

The majority, approximately 90%, of this compartment exists on varying phases of the sand series. These phases include sand (66%), loamy sand (24%), and mucky sand (.3%). 6% of the compartment sits on peat, 2.5% on muck, 1.5% on loam, and .1% on excavated gravel pits. Less than 1% of this compartment is sustained surface water, that percentage fluctuating with the effects of weather patterns and beaver activity.

Terrain is slightly undulating, mostly 0-18% slopes, with occasional steeper slopes (<10% on 12-30% slopes), and 1% very steep 35-60% slopes.

-AFO/AFOCa Kotar classified sites have the best quality hardwood in the compartment as well as supporting high quality red pine and aspen. On AFO/AFOCa sites dominated by aspen or red pine, the subcanopy is often very diverse (even where browsed) and has the best chance at recruiting into desirable hardwood if succession were to occur. AFO/AFOCa sites are 44% of the compartment.

-PARVVB/AFO supports nice oak, aspen, and pine and lower quality hardwood. There's a notable increase in white pine and balsam fir components to the subcanopy on these sites. PARVVB/AFO sites are 18.5% of the compartment.

-PARVHa types are associated with sands, capable of growing really nice, big pine, though can be prone to flooding when adjacent to lowlands or containing drainages. PARVHa sites recruit decent oak, white pine, and red maple in the subcanopy. PARVHa sites are 14.5% of the compartment.

-Mucks are associated with unclassified lowlands dominated by white cedar but supporting lowland aspen and hardwood as well. Shrub thickets are found in wet depressions. These mucks are susceptible to beaver flooding. Unclassified Lowlands are 9.5% of the compartment.

-PARVCo is associated with sands, but often contains water in the forms of seeps, drainages, and vernal pools. There's a notable presence of hemlock and lowland hardwood (especially yellow birch and red maple) on these sites. PARVCo sites are 7.5% of the compartment.

-PARVVb is associated with sands, buffering transitional edges, capable of growing big pine. PARVVb sites are 4.5% of the compartment.

-Loamy sands comprise some of the marginal quality AFOCa Kotar sites dominated by aspen with lesser amounts of hardwood and pine. AFOCa sites are 1.5% of the compartment.

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

There is fairly contiguous state ownership mixed with private property throughout this area. Private properties are larger

semi-intact parcels, mostly forested; a mix of seasonal and full-time residential properties. There's limited agricultural or industrial development, though Wildwood Road serves as a highly traveled corridor between Indian River and Petoskey, making private property prime for urban sprawl.

### **Unique Natural Features:**

There is potential for calypso orchid, ram's head orchid, and limestone oak fern in the conifer swamp. There is also the potential for red-shouldered hawk and goshawk within and around this compartment.

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

There are known foundations circa 1900 within this compartment. In the same period, Cobbs and Mitchell Railroad Company owned a significant portion in the of the compartment south of Wildwood Road.

Patterson and Cox owned a significant amount of undeveloped acreage in the north half of the compartment (and what is currently under Private ownership) and were known for dealing in land and lumber. They also owned the Post Office at Indian River.

Pike and Heiler also owned a bit of undeveloped property in the area, specifically the south quarter of the compartment. They were Real Estate Dealers, Live Stock Jobbers and Farmers, and maintained the Post Office at Rondo.

Samuel H. Taylor, Justice of the Peace, Insurance Agent, and Real Estate Dealer for the City of Cheboygan also owned undeveloped property.

Other smaller ownerships existed circa 1900.

### **Special Management Designations or Considerations:**

Interim Guidance for Natural-origin Pine Stands memo originating August 20, 2023 has provided temporary guidelines for maintaining natural pine stands across the landscape. These guidelines encourage management that retains existing natural pine covertypes.

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

Fisheries comments provided April 2024: This compartment contains a portion of Berry Creek, a tributary to Pickerel Lake. The proposed management prescriptions are appropriate for the protection of this stream.

### **Wildlife Habitat Considerations:**

Treatments in this compartment will maintain age class diversity in aspen while creating early successional habitat benefiting deer, grouse, and woodcock. Some oak will be left in these treatments for hard mast production. Hardwood treatments will provide within stand structural diversity.

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

Sections 4-5, 9-10, & 15-16, T34N-R3W, Cheboygan County

The closest known active sand/gravel pit, the State-owned Watson Road Pit, is less than two miles south. There is some potential for additional sand & gravel within the compartment on the uplands, and while there is some apparent demand in the area, it is not known whether there is sufficient production and reserves from existing operations in the region to meet current demand or if there may be capacity for additional operations. No production has been reported from the Watson Road Pit within the past 15 years or more, and it is not known what reserves may be remaining at the site. Minimal past exploration and testing for hydrocarbons has occurred in the area and no production. There has been no recent well permit activity or leasing activity involving State-owned mineral rights. There is no known potential for economic production of metallic minerals in this part of the state.

Comments from 2014:

Surface sediments consist of ice-contact outwash sand and gravel and lacustrine (lake) sand and gavel. The glacial drift thickness varies between 100 and 400 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is quarried for stone and cement products. Gravel pits are located to the southeast and the uplands appear to have good potential. The nearest oil and gas production, the Antrim Shale gas play, is located 6 miles to the south. The Antrim Shale is missing, however this area is leased for potential Collingwood Formation development.

### **Vehicle Access:**

Wildwood Road is a well-maintained and plowed county road providing access to the northern half of this compartment.

Gularski Road, also a maintained and plowed county road, extends north from Wildwood Road, becoming a seasonal road little more than half a mile north. Berry Creek Road is a seasonal county road where it adjoins this compartment on the south end. Morton and Presidio Roads run along portions of the west edge of this compartment. Both are county seasonal roads and not well maintained. There are multiple forest roads throughout this entire compartment providing decent access to most areas. However, steep terrain, sandy soils, and saturated soils have led to some serious rutting and washouts.

Beaver activity had completely diverted the flow of water onto the main snowmobile trail in 2021 making it impassable, but beaver control and some ditching has helped alleviate the worst of the problem.

### **Survey Needs:**

There are no pressing survey needs within this compartment. There are conflicting surveys on the baseline of section 16.

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

There are many roads and trail systems throughout this compartment providing for various recreational pursuits.

Snowmobile Trails 7 and 76 intersect this compartment and Snowmobile Trail 767 is off to the east; ORV and dirtbike trails include the Indian River Route (open to all sized ORVs), the Tomahawk to Kalkaska Michigan Cross Country Cycle Trail (MCCCT) (open to motorcycles only), and the Tomahawk Trail A Loop (open to ORVs measuring 50" wide or less). The east parking lot for Wildwood Hills Pathway is located off of Wildwood Road, providing access to non-motorized trails open to biking, hiking, and horseback riding, as well as becoming groomed ski trails in the winter. This compartment receives pressure from upland game hunters. Backcountry camping, trapping, and mushroom hunting may also occur locally. Burt Lake State Park, Weber Lake State Forest Campground, and Haakwood State Forest Campground are the closest designated campgrounds but are outside of the compartment.

#### **Fire Protection:**

There are few volatile fuel types within this compartment, but recent climatological stressors, namely drought and warmer weather patterns, can increase the risk of fire on the landscape, especially in pine and oak dominated fuels or lowlands experiencing drought or significant mortality. Pine-dominated covertypes in this compartment, especially younger red pine stands or stands with an increase in jack pine, are especially prone to fire.

The Indian River Field Office and Tuscarora Volunteer Fire Department are within a five minute response time to the north end of the compartment, but response time increases to access interior portions and the southern end of the compartment. Sandy, narrow, and washed out roads may inhibit interior travel. The Tuscarora Fire Station is the most reliable source for water, although the Sturgeon River is accessible off of White Road. Drainages within and surrounding the compartment are not reliable drafting sources but may be available.

#### **Additional Compartment Information:**

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

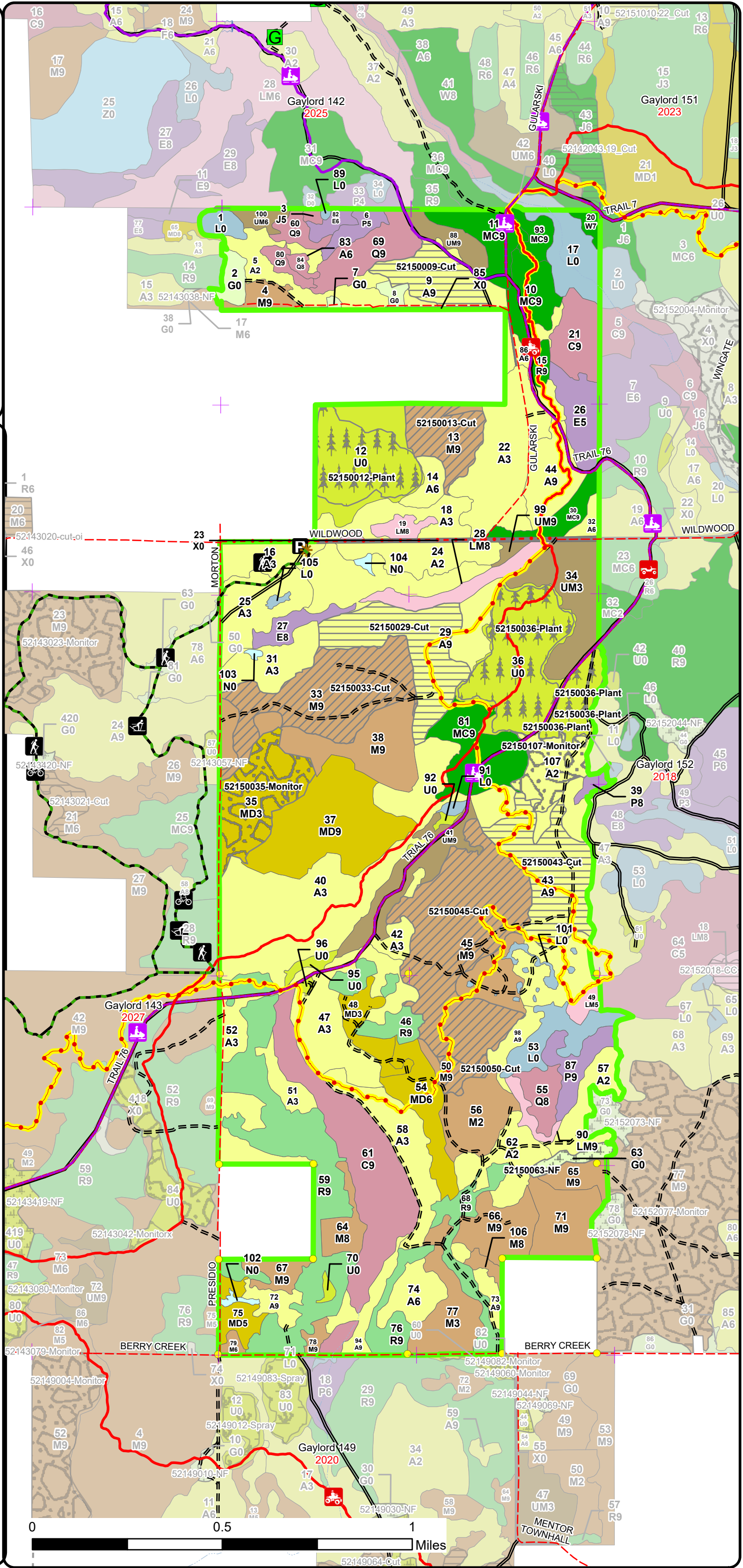
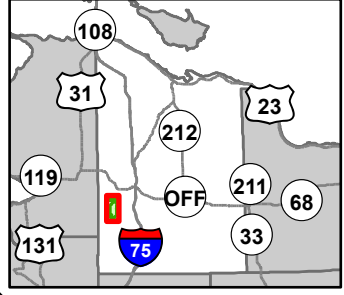
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

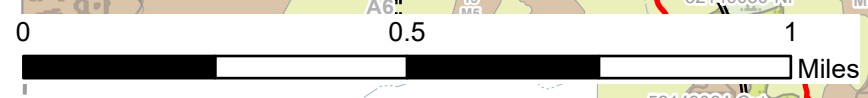
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 52150  
 T34N, R3W, Sec: 4, 9, 16  
 County: Cheboygan  
 Unit: Gaylord  
 Mgmt Area: Wolverine Moraines  
 YOE: 2026  
 Acres: 1671.4 GIS Calculated  
 Examiner: Tricia St. Pierre  
 Map Revised: 09/25/2024  
 Map Phase: Post Review

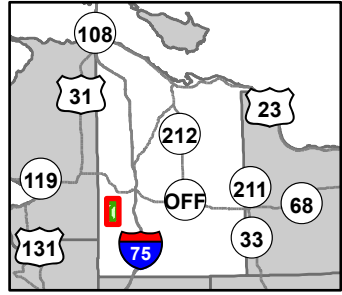


- Gate
- Culvert
- Parking Lot
- Trailhead
- Survey Grade Corners
- Remonumented Section Corners
- Hiking Trails
- Bike Trails
- Ski Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- ORV License & Trail Permit
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Compartment Boundary
- Other Treatment - See Comments
- Planting (Tree Species)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

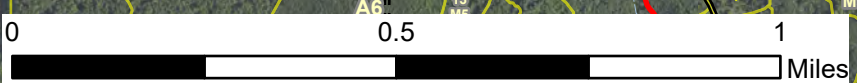
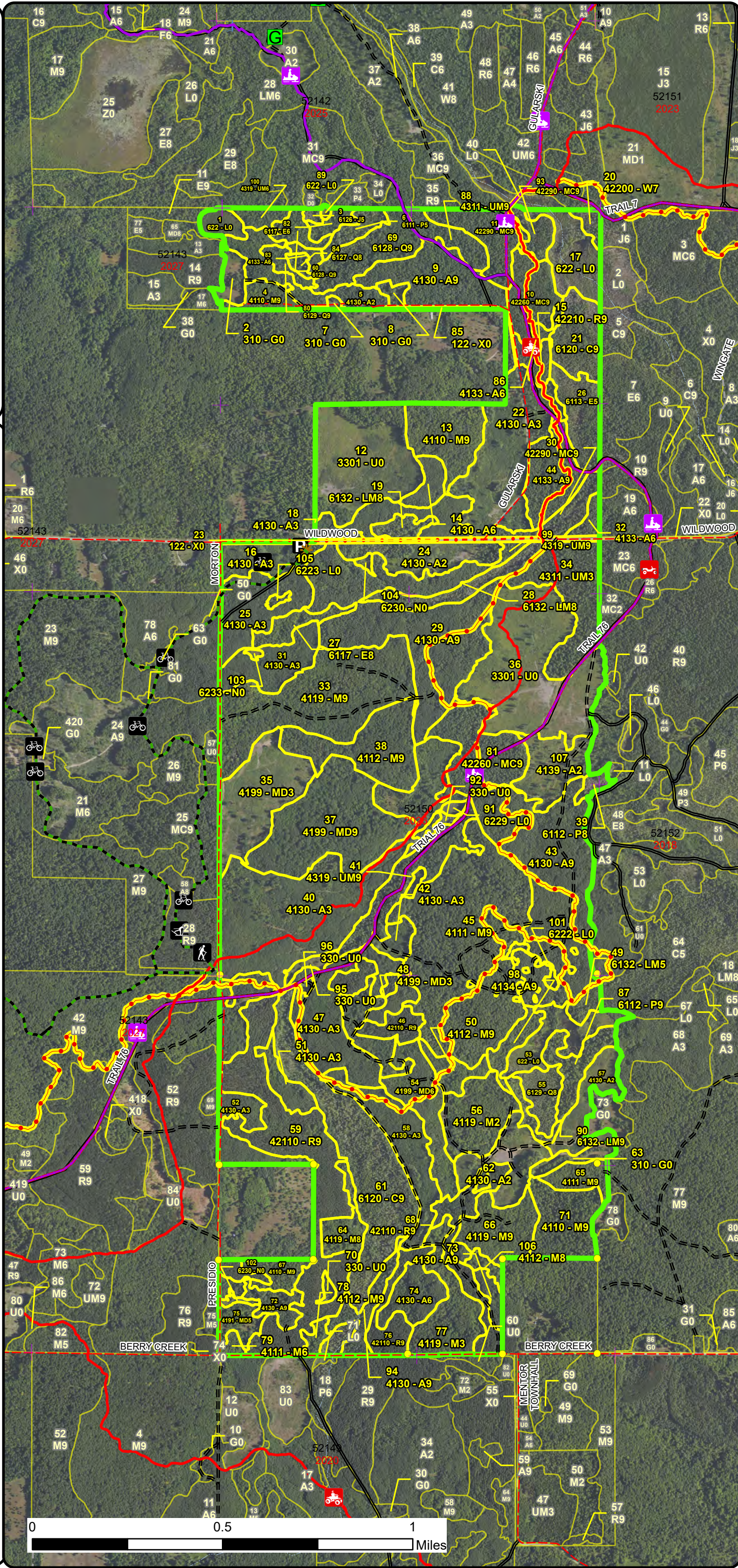


# Stand Boundary Map

Compartment: 52150  
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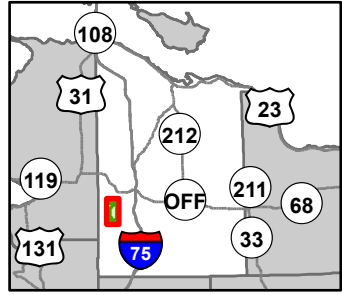


- Gate
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- State Forests

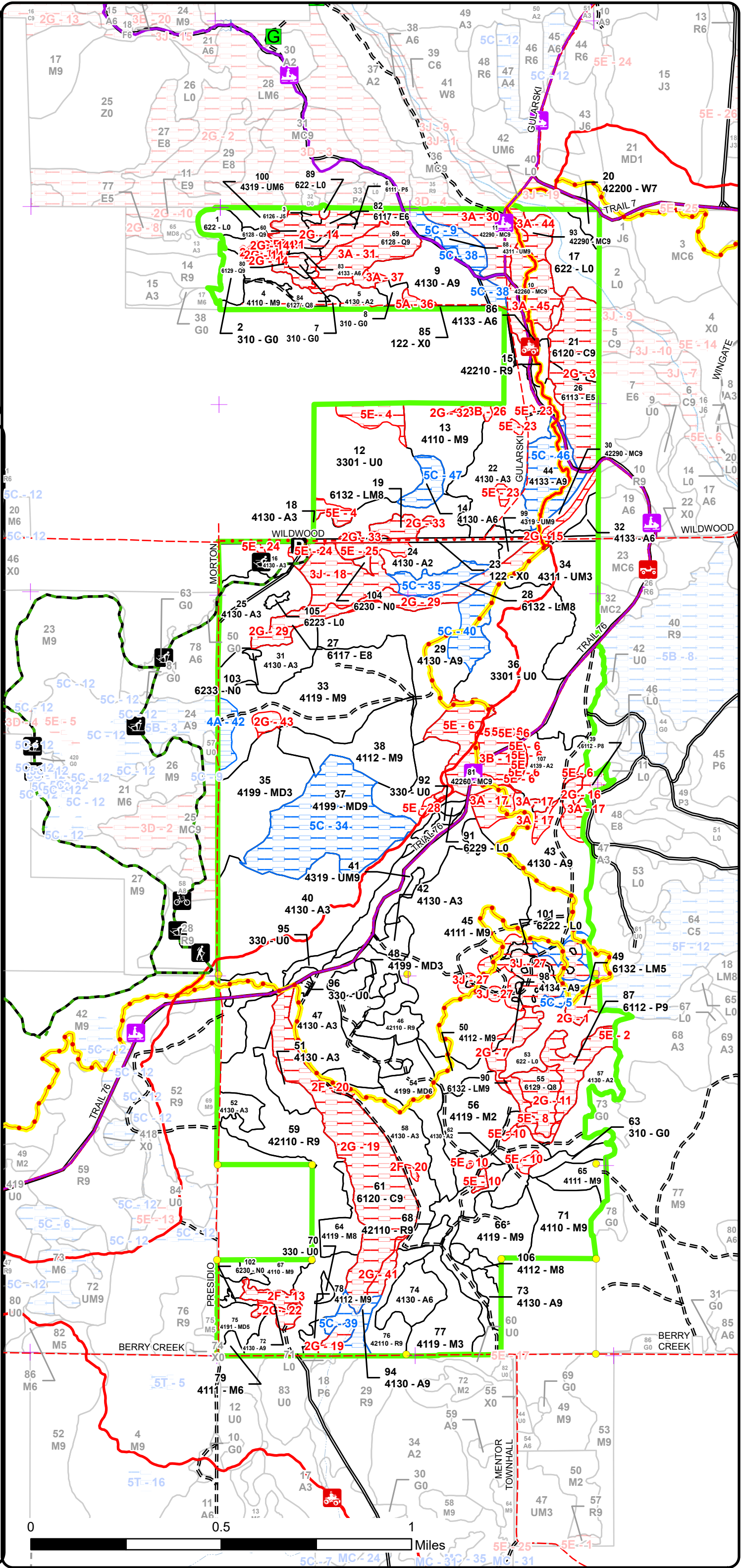


# Special Conservation Areas & Site Conditions Map

Compartment: 52150  
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- Gate
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  - Designated ATV Trails
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  - Designated Snowmobile Trails
  - Michigan Cross Country Cycle Trail (MCCCT)
  - DNR - Secondary Forest Road
  - DNR - Forest Access Route
  - County - Gravel Road
  - County - Dirt Road (Seasonal)
  - Private - Dirt / Gravel Road
  - Intermittent Stream
  - Compartment Boundary
  - Available w/ Constraints
  - Unavailable
- 4A: No Markets Available for these Forest Products





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	138	147	86	0	15	188	30	13	0	0	0	0	0	0	0	0	0	617
Cedar	0	0	0	0	0	0	0	0	0	0	72	0	0	0	0	0	0	0	72
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Jack Pine	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Low-Density Trees	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	6	0	12	3	0	0	0	0	0	0	0	21
Lowland Conifers	0	0	0	0	0	0	0	0	0	4	18	14	0	0	0	0	2	0	38
Lowland Deciduous	0	0	0	0	0	0	15	4	7	0	0	0	0	0	0	0	0	0	26
Lowland Mixed Forest	0	0	0	0	0	0	0	0	5	4	0	15	0	0	0	0	0	0	24
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	32	0	11	20	9	0	0	0	0	49	0	0	0	0	0	0	0	121
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	24	26	22	0	0	0	0	0	72
Northern Hardwood	0	0	0	20	21	0	0	0	7	7	272	0	0	0	0	0	0	0	327
Red Pine	0	0	0	0	0	0	0	107	0	0	3	0	0	0	0	0	0	0	110
Upland Mixed Forest	0	0	0	28	0	0	8	4	2	0	0	21	0	0	0	0	0	0	63
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
<b>Total</b>	<b>183</b>	<b>170</b>	<b>147</b>	<b>145</b>	<b>41</b>	<b>24</b>	<b>211</b>	<b>152</b>	<b>34</b>	<b>27</b>	<b>444</b>	<b>76</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1677</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 150

Total Compartment Acres: 1,671

Commercial Harvest - 258  
 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
Aspen	97	0	0	0	0	0	0	0	0	97
Northern Hardwood	0	0	0	0	0	162	0	0	0	162
<b>Total</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>162</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>258</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	258	0	88	0	0	0	48	0	5	399
Next Step	0	0	0	0	0	56	359	0	0	416
<b>Total</b>	<b>258</b>	<b>0</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>408</b>	<b>0</b>	<b>5</b>	<b>815</b>





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

<b>9</b>	<b>52150009-Cut</b>	19.3	4130 - Aspen	Sawtimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. Do not cut any oak, pine, or hemlock. Protect hemlock: exclude west acreage with densest hemlock and mark leave trees or small islands around hemlock within harvest area to protect from scorch and damage. Leave aspen &gt;18" dbh for future snags, coarse woody debris, drumming logs. Require oak wilt spec. Sign and protect the snowmobile trail using it as the sale boundary along the north edge. Potential for soil saturation in north tip and along associated drainage. Exclude from sale and properly site condition if found to be saturated. Mark a minimum of two clumps of trees (one to five trees per clump, preferring balsam fir) to be hinge cut and/or jackstrawed adjacent to the lowland edge to create hare habitat. Require drumming log spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for aspen. Also acceptable will be a temporary transition to a low stocked pine dominated stand while aspen regenerates. A moderately stocked of aspen with pine is likely to occur.</p> <p><u>Other Comment:</u> Some amount of white pine damage/mortality will occur through operations. Prefer to retain underrepresented species such as spruce (three observed), cherry (only observed one log) and paper birch. Use some LTR for visual management along Gularski Road which should include the east edge of stand 8 where dominated by hardwood (currently excluded from harvest boundary). Protect leatherwood with LTR (across from pole barn), too.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>13</b>	<b>52150013-Cut</b>	19.6	4110 - Sugar Maple Association	Sawtimber Well	97	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand to 80. Density is highly variable and some areas may be walk-through. Mindfully mark steep hills, providing for operations while protecting soils. Maintain SM:BW ratio, marking basswood sparingly. Exclude wet draw in northeast. Do not mark any underrepresented species such as oak or pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Beware of barbed wire in trees in north. Beware of large pit in south leg. Consider excluding northwest steep hillside unless a sustainable skid trail can be found.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>29</b>	<b>52150029-Cut</b>	38.0	4130 - Aspen	Sawtimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. Do not cut hemlock, pine, yellow birch, oak, cherry, or basswood. Mark leave trees or small retention islands around hemlock to prevent scorch and damage. Require oak wilt spec. Capture paper birch in long term retention (either groups or single trees) to leave as a seed source. Sign and protect all recreational trails during harvesting and hauling operations. Include drumming log spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking standards for aspen. The inclusion of conifer or deciduous species is acceptable at any level.</p> <p><u>Other Comment:</u> Exclude any other wet areas and buffer stands 27 and 28 following BMPs. Prefer harvesting in snow off (&lt;2" depth) conditions for scarification to encourage greater diversity in regeneration.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>33</b>	<b>52150033-Cut</b>	52.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	96	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to 80. DO NOT CUT yellow birch, hemlock, or oak. Focus on leaving basswood at current or higher percentage (mark it sparingly).  
Specs: Avoid marking areas with desirable advanced sugar maple regeneration. Focus on seed producers. Exclude spongy ground. Do not cut cherry if found within stand.

Next Step  
Treatments:

Acceptable  
Regen:

Other Exclude/do not mark through sensitive soils, particularly seasonally wet and seep prone acreage in southwest (hummocky, high density of hemlock, increase in yellow birch). An area of sensitive soils has been removed from the treatment area. The site condition should be edited during timber sale prep to accurately represent conditions on the ground.  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>35</b>	<b>52150035-Monitor</b>	31.7	4199 - Other Mixed Upland Deciduous	Sapling Well	3	Immatu re	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Even-Aged	No
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Prescription Continue to monitor natural regeneration for species richness and distribution. The original clearcut treatment resulted in high stocking of commercially undesirable species. Observe for biodiversity and seedling recruitment using 2024 inventory as the baseline.  
Specs:

Next Step  
Treatments:

Acceptable Acceptable regeneration will meet minimum stocking standards for hardwood. The intent of the monitoring treatment is to observe species richness over time.  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>43</b>	<b>52150043-Cut</b>	39.5	4130 - Aspen	Sawtimber Well	56	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest excluding areas with highest density of red pine, white pine, and/or hemlock. Require oak wilt spec. Exclude vernal pool complex and any associated drainages in the south. Do not cut any conifer or oak. Leave pockets of high-density paper birch in long-term retention pocket(s) for seed source. Protect any hemlock in harvest area from scorch and damage by marking strategic leave trees or small retention islands around the hemlock.  
Specs: Sign and protect the snowmobile and dirtbike trails during harvesting/hauling activities. Include drumming log spec.

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

Acceptable Acceptable regeneration will meet minimum stocking standards for aspen. The inclusion of mixed deciduous and coniferous species will be acceptable at any level.  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>45</b>	<b>52150045-Cut</b>	84.0	4111 - S.Maple, Hard Mast Association	Sawtimber Well	97	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to 80, maintaining diversity and keeping SM:BW ratio intact. Do not cut any yellow birch, hemlock, red oak, black cherry, red pine, white pine, or elm. Protect vernal pools in southeast. Require oak wilt spec.  
Specs: Sign and protect all recreational trails during harvesting and hauling operations.

Next Step  
Treatments:

Acceptable  
Regen:

Other PROTECT SURVEY CORNER IN WEST.  
Comment: Some areas have a pre-existing lower BA. Walk through these areas. Be mindful to protect desirable advanced regeneration wherever present.

Site Condition:

Proposed Start Date: 10/1 /2025

<b>50</b>	<b>52150050-Cut</b>	5.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	73	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to 80, focusing on removing lower quality, multi-stemmed red maple stems. Do not mark any under-represented species unless necessary for operations. Do not mark any oak. Require oak wilt spec. Sign and protect recreational trails.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>63</b>	<b>52150063-NF</b>	4.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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>107 52150107-Monitor</b>	16.6	4139 - Aspen, Mixed Deciduous	Sapling Medium	4	Immature	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Continue monitoring treatment through 2034 inventory. Desirable species composition was present during 2024 inventory, but density was lacking harvest objectives. Allow another cycle to fill in and reassess.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Well stocked stand of aspen, oak, red maple, white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2033</p>										

**Approved Treatments:**

<b>12 52150012-Plant</b>	31.3	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully-stocked red pine plantation in areas formerly occupied by heavy beech regen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>36 52150036-Plant</b>	56.2	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; ; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked stand of red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

**Total Treatment Acreage Proposed: 399.1**

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre: Examiner

Compartment: 150  
Year of Entry: 2026



### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition		Acres Not Available	Dominant Site Conditions									
					4A	5C	2F	2G	3A	3B	3J	5A	5E	
616	481	<b>59</b>		76	Aspen		<b>59</b>	7	12	15	1	29	1	11
72	0	<b>0</b>		72	Cedar				72					
14	14	<b>0</b>		0	Herbaceous Openland									0
1	0	<b>0</b>		1	Jack Pine				1					
116	107	<b>0</b>		9	Low-Density Trees						0			9
20	0	<b>0</b>		20	Lowland Aspen/Balsam Poplar				8					11
37	0	<b>0</b>		37	Lowland Conifers				18	18				1
25	0	<b>0</b>		25	Lowland Deciduous				25					
24	0	<b>0</b>		24	Lowland Mixed Forest				20					4
42	39	<b>0</b>		3	Lowland Shrub							3		
2	2	<b>0</b>		0	Marsh									
120	71	<b>49</b>		0	Mixed Upland Deciduous		<b>49</b>							
71	7	<b>0</b>		65	Natural Mixed Pines				2	36	9	0		17
327	312	<b>5</b>		10	Northern Hardwood	<b>5</b>			3			7		
111	111	<b>0</b>		0	Red Pine									0
63	54	<b>8</b>		0	Upland Mixed Forest		<b>8</b>							
8	8	<b>0</b>		0	Urban									0
3	3	<b>0</b>		0	White Pine									
1,671	1,208	<b>121</b>		342	Total Forested Acres	<b>5</b>	<b>117</b>	7	162	69	10	39	1	54
	72%	<b>7%</b>		20%	Relative Percent									

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	5A: Not able to obtain desirable regeneration	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b>							
The majority of this stand is too wet with sensitive soils and difficult to regenerate cedar.							

## Report 4 – Site Conditions

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

**Compartment: 150**  
**Year of Entry: 2026**



2	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	12	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This portion was 'Too wet' to be included within final harvest cut that occurred within Stand 57. Prescription stated retaining this excluded/too wet area as long-term retention. There are upland areas within this stand.							
3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	30	3A: Conservation Values incompatible with harvest at this time	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
<b>Comments:</b> Swampy stands, saturated fragile soils.							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	9	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b> Stand examiner (Roell) removed these areas from original harvest area during inventory. Southern polygon is primarily M9 mixed with a few conifer (some larger/and legacy white pine). Northern polygon isn't a good candidate for harvest/RP planting (generally steep, seasonally wet in areas, etc.). Capture both polygons as Long-Term Retention for foreseeable future.							
5	<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> Acreage excluded to further protect vernal pool complex.							
6	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre: Examiner

Compartment: 150  
Year of Entry: 2026



7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Factor limit for regeneration, vernal pools/drainages, beaver fodder.							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Delay treatment. Adjacent acreage receiving treatment this YOE.							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Center and Western polygons are low ground, holding water and featured sensitive soils. One seep observed as well (center-polygon). North polygon, Southeast polygon and Southwest polygon (sandwiched between RP Stand 68) were the original exclusion retention locations created by P. Roell in IFMAP.							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre: Examiner

Compartment: 150  
Year of Entry: 2026



13	<b>Unavailable</b>	<b>2F: Too steep</b>	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Rather steep hills with seeps and a drainage at the bottom holding water. Southeast knob sits on top of a hill and is manageable (dominated by bigtooth aspen).							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	22	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Rather wet complex. Portions may be harvestable in very dry or frozen conditions, but access and BMPs limit feasibility. Unique inclusion of hemlock and some relic white pine.							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Seasonal/intermittent drainage through stand. Some mortality from past inundation. Edges are dry.							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very wet with standing and flowing water, fragile soils. Survey corner present. Small acreage.							
17	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retaining areas of densely stocked natural pine.							



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre: Examiner

Compartment: 150  
Year of Entry: 2026



18	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	17	2G: Too wet (sensitive soils, does not include access issues)	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified
<b>Comments:</b> Drainages and seeps throughout this portion of the stand; saturated, spongy soils with much higher densities of hemlock; some yellow birch and cedar present, which are unique for this stand/area. Other lowland-associated plants also present, such as cattails, bulrush, black ash, red osier dogwood, chokeberry, and willow. Site condition allows for 100-foot buffer of seeps and drainages.							
19	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	56	3J: Water quality / BMPs (stream, river, or lake)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
<b>Comments:</b> Stream (4-6 feet wide on average) meanders through stand. Saturated soils and difficult to regenerate species.							
20	<b>Unavailable</b>	<b>2F: Too steep</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Portions of stand 58 which were too steep to harvest.							
21	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention for the timber sale that occurred within Stand 5 (PU2, Wildman Gularski Mix).							
22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage with flow from the west. Goes underground towards the east but good potential for rutting and seasonal inundation.							
23	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre: Examiner

Compartment: 150  
Year of Entry: 2026



24	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Unavailable	5E: Long-Term Retention	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Eastern half and southern portions of the west half were wet with sensitive soils, a functioning fen/marsh, had seeps flowing out of slopes, and/or offered limited merchantability (pole/sap sized species with dead ash). The balance should pair well with L.T. Retention 5E-24 as a visual enhancement near Wildwood Pathways east parking lot.							
26	Unavailable	3B: Threatened, endangered, and special concern species	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Sensitive feature located during timber sale prep.							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Vernal Pool Complex. 100' minimum 'no harvest' buffer. Recommended an additional 300' (400' from feature) buffer with limited harvesting practices and increased coarse woody debris, (Calhoun and deMaynadier 2008, Michigan DNR and Michigan DEQ 2009).							
28	Unavailable	5E: Long-Term Retention	1	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Acreage was originally part of adjacent stand 81 and coded as Long Term Retention. Cover type is better associated with stand 40, but unharvested due to steep hillside.							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Intermittent streams throughout the stand. Saturated and sensitive soils.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre: Examiner

Compartment: 150  
Year of Entry: 2026



30	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural pine stand. Delaying treatment for division policy manifestation.							
31	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	18	5A: Not able to obtain desirable regeneration	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b> Portions of this stand are too wet to harvest, but the prominence of natural red and white pine (including scattered legacy trees), hemlock, and cedar is the dominant limiting factor. It may be reasonable to harvest in the far northeast if management occurs in the adjacent stand 88.							
32	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage: wet, occupied by cattails, trace cedar, yellow birch, and elm. Clump of hemlock present on south edge. Yellow birch continues up the draw.							
33	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very wet stand in general. Adjacent harvest met edge of operable ground. Standing water, some flow in east. Shallow, sensitive soils.							
34	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	49	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is a three aged stand. Canopy data does not properly reflect the condition of the stand. Roughly 40% of the canopy is mature - and occupies 40% of the canopy because the crowns are so large, while the remaining 60% is a mix of pole and sapling classes resulting from management in 1975 and 1985. Delay treatment allowing midcanopy to mature. There's a lot of even-aged management in this compartment and detrimental deer browse. In consideration, urging this stand towards selective/uneven-aged management is recommended.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre: Examiner

Compartment: 150  
Year of Entry: 2026



35	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	1	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area of mature hardwood in an aspen stand; uncommon for the northern half of the compartment.							
37	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> High density of hemlock to be preserved (adjust site condition following timber sale preparation).							
38	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> To be managed in the future with stands to the east side of snowmobile trail.							
39	<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> Postpone treating. Mixed edges with some lowland influence on interior edges; small drainage separating the main stand from the west portion.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre: Examiner

Compartment: 150  
Year of Entry: 2026



40	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Delay treatment. Harvest targets for aspen has been met and this area is more densely populated with conifer, preserving natural red and white pine.							
41	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Self-regulating lowland growing nice quality lowland hardwood and aspen.							
42	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area of increased beech presence and mortality from BBD. Low volume of marketable products in this area.							
43	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Seeps and seasonal pooling. Adjust site condition to reflect conditions on the ground when timber sale is set up.							
44	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural pine stand. Delaying treatment for division policy manifestation.							
45	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Tricia St. Pierre: Examiner

Compartment: 150  
Year of Entry: 2026



46	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Aspen harvest targets were met for this compartment in the 2025 YOE. Delay treatment. Available for management in 2035 YOE.							
47	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Aspen harvest targets were met for this compartment in the 2025 YOE. Delay treatment. Available for management in 2035 YOE.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments
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### Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
1	622 - Lowland Shrub	Nonstocked	4.7		Unspecified	No	Observed from east portion of stand. Representative of a northern shrub thicket with prominence of winterberry, tag alder, and chokeberry.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Trace	Variable	Sapling	
								White Pine	Trace	Variable	Sapling	
								Paper Birch	Low	10 - 20 feet	Sapling	
								Michigan Holly	High	5 - 10 feet	Tall Shrub	
								Chokeberry	Low	5 - 10 feet	Tall Shrub	
								Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub	
								Tag Alder	Medium	5 - 10 feet	Tall Shrub	
								Red Maple	Trace	Variable	Sapling	
								Bulrush	Medium	Unspecified	Non-Wood	
								Balsam Fir	Low	Variable	Sapling	
2	310 - Herbaceous Openland	Nonstocked	5.7		Unspecified	No	Red pine present in L/S/P, variable heights. White pine present in S/P. Cherry present in P/S/L. BAM present in S/P. Encroaching aspen and oak on the perimeter. Spotted knapweed present in the south and not in the north where there's high to full stocking of little bluestem. Dense white pine island includes a subcanopy of balsam fir, beech, red pine, white pine, ironwood, and white ash.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Cherry	Low	>20 feet	Pole	
								Little Bluestem	High	Unspecified	Non-Wood	
								Balsam Poplar	Trace	Variable	Sapling	
								White Pine	Low	Variable	Sapling	
								Spotted Knapweed	Low	5 - 10 feet	Non-Wood	
								Juniper	Trace	Variable	Tall Shrub	
								Bracken Fern	Low	Unspecified	Non-Wood	
								Sweet Brier	Trace	5 - 10 feet	Tall Shrub	
								Red Pine	Medium	>20 feet	Log	
								Beech	Low	Variable	Sapling	
3	6126 - Lowland Jack Pine	Poletimber Medium	1.1	60	51-80	N/A	Treed bog, muskeg-like. West edge is a little more transitional with greater species richness, supporting jack pine, white pine, red maple, balsam fir. Northeast is slightly higher and drier and sees an increase in density, also trailing arbutus. Trace balsam fir, red maple, and paper birch in canopy. Rare hemlock and larch in subcanopy.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	60	Pole/Sap/Log	6	60
								Red Pine	1	Log/Pole/Sap	12	
								White Pine	39	Pole/Sap/Log	8	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Bulrush	Trace	Unspecified	Non-Wood	
								Jack Pine	Trace	Variable	Sapling	
								Leatherleaf	Full	< 5 feet	Tall Shrub	
								Balsam Fir	Trace	Variable	Sapling	
								Blueberry/Bilberry/Cranberry	Trace	< 5 feet	Tall Shrub	
								White Pine	Trace	Variable	Sapling	
								Michigan Holly	Trace	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
4	4110 - Sugar Maple Association	Sawtimber Well	7.0	99	81-110	N/A	Trace BAM and quaking aspen (both in far west), paper birch, white oak, red oak, beech, and ironwood in canopy. Rare balsam fir (in west), basswood, and striped maple in subcanopy. Bigtooth aspen is L/P/X in far west pocket, but generally Xlog within stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole	8		Sugar Maple		Low	>20 feet	Sapling	
Basswood		20	Log/XLog/Pole	14		Beech		High	Variable	Sapling	
Yellow Birch		1	Log/Pole	12		Ironwood		Medium	Variable	Sapling	
Bigtooth Aspen		5	Log/XLog/Pole	14		White Ash		Medium	Variable	Sapling	
Sugar Maple		69	Pole/Log	8	99	White Pine		Trace	< 5 feet	Seeding	
						Hemlock		Low	>20 feet	Pole	
5	4130 - Aspen	Sapling Medium	16.0	2	Immature	N/A		Final harvest complete in 2022, PU2 of Wild Man Gularski (52-122-16). Scattered residual balsam fir, red and white oak, white pine, hemlock, sugar maple, and red maple. Rare white spruce sapling. Heavy browsed hardwood resulting in shrubs. Most of the residual balsam fir is scorched. Some inundation to skid trails, especially in middle (narrow) stretch and far north as it drops into the adjacent lowland.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Bigtooth Aspen		15	Sapling	1		Ironwood			Trace	< 5 feet	Sapling
Balsam Fir		2	Sapling	2		Red Maple			Trace	< 5 feet	Tall Shrub
Red Oak		1	Log/Pole	10		Bracken Fern			Trace	Unspecified	Non-Wood
White Pine		5	Log/Pole/XLog	16		White Pine			Trace	< 5 feet	Sapling
Hemlock		3	Log/Pole	10		Beech			Trace	< 5 feet	Sapling
Quaking Aspen		70	Sapling	1	2						
White Oak		2	Log	12							
Balsam Poplar		2	Sapling	1							
6	6111 - Lowland Balsam Poplar	Poletimber Medium	5.6	65	1-50	N/A	Trace white pine, black cherry (just saw one), white oak, ironwood, sugar maple, and basswood in canopy. Rare willow in subcanopy. Dead black ash. Tag alder dominated north half with around 25% canopy closure of bam, balsam fir, paper birch, and red maple. South half is more densely occupied; pocket of log quaking aspen and balsam poplar, returning to dense alder in the south tip.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		20	Pole/Sap/Log	6		Black Ash		Trace	< 5 feet	Sapling	
Paper Birch		5	Pole/Sap/Log	6		Tag Alder		High	Variable	Tall Shrub	
Balsam Poplar		50	Pole/Sap/Log	6	65	White Pine		Trace	Variable	Sapling	
Balsam Fir		15	Pole/Sap/Log	6		Balsam Fir		Low	Variable	Sapling	
Quaking Aspen		10	Log/XLog	12	65	Michigan Holly		Trace	5 - 10 feet	Tall Shrub	
						Alder Leaved Buckthorn		Trace	< 5 feet	Tall Shrub	
						Bulrush		Trace	5 - 10 feet	Non-Wood	
						Red Osier Dogwood		Trace	< 5 feet	Tall Shrub	
7	310 - Herbaceous Openland	Nonstocked	0.8		Unspecified	No					
Sub-Canopy Species		Density	Avg. Height	Size							
Spotted Knapweed		Low	Unspecified	Non-Wood							
Black Cherry		Trace	10 - 20 feet	Sapling							
Balsam Poplar		Low	Variable	Sapling							
Bracken Fern		Low	Unspecified	Non-Wood							
White Pine		Trace	Variable	Sapling							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																																	
8	310 - Herbaceous Openland	Nonstocked	2.3		Unspecified	No	Access/partial landing for adjacent harvest. Dump in northeast with barrels, old grill, sink, and televisions. Autumn Olive on southeast edge.																																																																																																	
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9	4130 - Aspen	Sawtimber Well	25.5	58	81-110	N/A	Two age classes of oak and pine present. Northeast contains a pocket of much smaller pole-dominated aspen. Most hemlock volume is in the far west, although there's trace hemlock in the far east. Trace black cherry, white spruce in canopy (observed one of each); rare serviceberry and hemlock in the subcanopy. Most subcanopy serviceberry and cherry are found along the south edge of the stand. Scattered paper birch snags. Most of the red maple is multi-stemmed and mediocre quality. Bigtooth is best suited for the site; quaking is decent but not great. Red maple is fairly consistent across the stand at 20 BA. Observed occasional blueberry through the snow, but difficult to get an accurate representation of density. Observed trace leatherwood on south edge of stand across from pole barn.																																																																																																	
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10	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	15.0	93	111-140	N/A	Trace white oak, jack pine in canopy. Rare black spruce, white oak, black cherry, and juniper in subcanopy. Two aspen cohorts: 12" L/P and 8" P/L.																																																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
11	42290 - Natural Mixed Pine	Sawtimber Well	15.5	113	81-110	N/A	Trace quaking aspen in canopy. Rare hemlock (log >20') in subcanopy. Self-perpetuating white pine. Northwest third is red pine dominated. Southeast third is white pine with bigtooth. Middle of stand is mixed pine, aspen, and oak.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	22	Log/Pole	14		Blueberry/Bilberry/Cranberry	Low		< 5 feet	Tall Shrub
Jack Pine	1	Log/Pole	12		Beech	Low		Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole/Log	8		Black/Red (Hybrid) Oak	Trace		Variable	Sapling
Red Pine	30	Log/Pole/XLog	14	113	Red Maple	Low		>20 feet	Sapling
White Pine	42	Log/Pole/XLog	14	113	White Oak	Trace		>20 feet	Sapling
					Red Pine	Trace		Variable	Sapling
					White Pine	High		Variable	Sapling
					Paper Birch	Trace		>20 feet	Pole
					Bracken Fern	Low		Unspecified	Non-Wood
					Balsam Fir	Trace		Variable	Sapling
					Wintergreen	Low		< 5 feet	Tall Shrub
12	3301 - Low Density Deciduous Trees	Nonstocked	45.3	0	Unspecified	4211 - Planted Red Pine	Trenched, not yet planted (2/2024). Roller chopped. Lot of bta still alive in east, scattered pockets in west. Couple scattered residual oak, hemlock, white pine (primarily in southeast). Site prep herbicide work completed 08/30/24 via drone. Formerly an M9 stand heavily stocked with non-desirable beech seeds/saps in the sub-canopy. Whole tree harvested and chipped by Tulgestka, PU1 of 'Wild Man Gularski Mix' 52-122-16. Harvest completed July '19. I re-visited in Oct '22, cherry was coming in strong in most areas. Eastern locations, formally part of Stand 14 (A6), had strong aspen regen. Oak was left per Rx, very little residual, most present in east.		
Sub-Canopy Species	Density	Avg. Height	Size						
Hemlock	Trace	>20 feet	Pole						
White Pine	Trace	>20 feet	Log						
Bigtooth Aspen	Medium	Variable	Sapling						
Bracken Fern	Low	Unspecified	Non-Wood						
Beech	Low	< 5 feet	Sapling						
Blackberry/Raspberry	Full	< 5 feet	Tall Shrub						
Black/Red (Hybrid) Oak	Trace	>20 feet	Log						
13	4110 - Sugar Maple Association	Sawtimber Well	20.6	97	81-110	N/A		Significant amount of poles. Trace red oak and white pine in southeast. Trace hemlock, yellow birch, and paper birch in northeast. Trace white pine in canopy and subcanopy. Rare leatherwood in subcanopy. Most of the beech is dead, save some very poor quality, deteriorating stems. Really bad beech brush in areas. A rather hilly stand. Wet draw in northeast opening up to cattails. Old barbed wire quite a bit south of private line, still in trees, but mostly on the ground. West half of stand is dominated by sugar maple poles yet; east half is more log-sized. West half, especially the southwest, is lower quality with an increase in red maple and bigtooth aspen. Scattered dead white ash,	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Basswood	42	Log/Pole	12		Beech	High	Variable		Sapling
Beech	5	Log/Pole/XLog	15		White Ash	Low	< 5 feet		Sapling
Bigtooth Aspen	5	XLog/Log	18		Ironwood	Medium	Variable		Sapling
Quaking Aspen	1	Log	14		Balsam Fir	Trace	Variable		Sapling
Red Maple	4	Log/XLog	14						
Sugar Maple	43	Pole/Log	9	97					
14	4130 - Aspen	Poletimber Well	6.0	51	111-140	N/A	Trace white ash, white pine, beech in canopy. Rare hybrid oak, white pine, serviceberry, balsam fir in subcanopy. Another year and this will be a solid log stand. Heavy browsing pressure on subcanopy.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Red Maple	1	Pole/Sapling	6		White Ash	Trace		Variable	Sapling
Paper Birch	2	Pole/Sapling	6		Beech	Trace		>20 feet	Pole
Bigtooth Aspen	93	Pole/Log	9	51	Red Maple	Low		Variable	Sapling
Black/Red (Hybrid) Oak	1	Pole/Log	8		Sugar Maple	Trace		>20 feet	Sapling
Sugar Maple	3	Pole/Sapling	6		Beech	Medium	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																
15	42210 - Natural Red Pine	Sawtimber Well	3.2	93	141-170	N/A	Trace red maple in canopy. Rare paper birch in subcanopy. Charred stumps. Trace white and black spruce on east edge as it transitions into adjacent lowland. Partial deciduous removal in 1966.																																																																																
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16	4130 - Aspen	Sapling Well	12.5	6	Immature	N/A	Whole tree harvested and chipped by Tulgestka, PU5 of 'Wild Man Gularski Mix' 52-122-16. Harvest completed Nov '17. All oak and pine left unharvested. Long Term retention in east around Wildwood Hills parking lot and trail head: 30% SM (L/P/X), 20% BTA (L/X), 20% RM (L/P), 17% RO (X/L), 5% BE (L), 5% QA (L), 2% WP (L); trace BC. Subcanopy: BE (high), RM (low), trace WP, RO, BC, serviceberry. Within harvested portion of stand, there are trace amounts of sapling white ash and red oak. Also trace residual hemlock along west edge. Rare white pine, red pine, and white ash regen. Heavy browsing on regeneration has resulted in subcanopy hardwood shrubs: dense clusters of stump sprouts, multi stemmed and <2'. Portion of south center is a little understocked, dominated by beech shrubbery and dense blackberry.																																																																																
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17	622 - Lowland Shrub	Nonstocked	16.5		Unspecified	No	Berry Creek Stream corridor, Cold Water Designation. Busy beavers in southwest. Trace white cedar along perimeter in south. Dam extends from NE to SW. Nice peninsula of white pine and red maple with quaking aspen in northeast. Observed stand along entire west side. Expect a bigger mix of lowland shrubs than observed from edge.																																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>18</b>	4130 - Aspen	Sapling Well	16.4	16	Immature	N/A	Trace residual hemlock (and one cedar) in west-center (wetter area). Trace ironwood, white oak, beech, balsam poplar, sugar maple, and basswood in canopy. Rare witch hazel, sugar maple, balsam poplar, honeysuckle, basswood (nearest road and heavily browsed), and rubus in subcanopy. Paper birch density increases in damp central small pocket, also where bam occurs. Striped maple is primarily located in the northeast. Trace rubus still in primary skid trails, but absent elsewhere. Increase in white pine saplings in the west as influenced by edge seed sources. Trace wintergreen, partridgeberry, stiff clubmoss, and blueberry in subcanopy - scattered and sparse. Opening on far west edge is dominated by bracken fern with trace spotted knapweed. Couple of scotch pine saplings.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	74	Sapling/Pole	4	16	Balsam Fir	Trace		Variable	Sapling
Black Cherry	3	Sapling/Pole	4		Black Cherry	Low		Variable	Sapling
Black/Red (Hybrid) Oak	3	Pole/Sapling	5		Ironwood	Trace		Variable	Sapling
Paper Birch	1	Sapling/Pole	3		White Pine	Trace		Variable	Sapling
Red Maple	5	Sapling/Pole	3		Serviceberry (Juneberry)	Low		Variable	Sapling
Balsam Fir	1	Log/Pole	10		Black/Red (Hybrid) Oak	Trace		< 5 feet	Sapling
White Pine	2	Log/Pole	12		White Ash	Trace		Variable	Sapling
White Ash	1	Sapling/Pole	3		Striped Maple	Trace		Variable	Sapling
Quaking Aspen	10	Sapling/Pole	3		Beech	Low		Variable	Sapling
					Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
<b>19</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	4.9	79	51-80	N/A		Trace beech (pole/log) in canopy. One oak, one sugar maple on far east edge. West island has a clump of white pine on an upland edge with dense holly and alder in the south/southeast. East island, far east leg is upland (with dense balsam fir subcanopy) except for a prominent drainage along the south edge. The majority of the main body of this stand is a mix of red maple, hemlock, and cedar, with scattered birch. The south edge opens up to holly and alder as Wildwood Road inhibits natural drainage. Rare alder leaved buckthorn, mountain maple, cattails, bittersweet nightshade, and white pine in subcanopy. Dead black ash (pole/sap), declining paper birch. Basal area is variable: 110-140 in pockets, 30-80 on average.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Hemlock	33	Log/Pole	12		Red Maple	Trace	Variable		Sapling
Yellow Birch	2	Pole/Sap/Log	8		Michigan Holly	Low	5 - 10 feet		Tall Shrub
Paper Birch	2	Log/Pole	14		Red Osier Dogwood	Trace	< 5 feet		Tall Shrub
Red Maple	33	Log/Pole	12	79	Beech	Low	Variable		Sapling
White Pine	1	Log/Pole	16		Balsam Fir	Trace	Variable		Sapling
Northern White Cedar	25	Log/Pole	10		Witch Hazel	Trace	5 - 10 feet		Tall Shrub
Quaking Aspen	4	XLog/Log	20	79	Black Ash	Low	Variable		Sapling
					Serviceberry (Juneberry)	Trace	Variable		Tall Shrub
					Tag Alder	Trace	10 - 20 feet		Tall Shrub
					Quaking Aspen	Low	< 5 feet		Sapling
<b>20</b>	42200 - Natural White Pine	Sawtimber Poor	2.8	95	1-50	N/A	Serious mortality from flooding. Formerly an upland stand, but mostly inundated during inventory. A lot of dead standing red and white pine, some aspen and oak; white pine, red maple, and red oak had better survivability than red pine, but still suffered significant loss. Canopy coverage is barely at 25%, which makes canopy percentages seem skewed way higher than actual presence. Survey corner and witness trees in northeast. Rare beech and white oak in the subcanopy. Subcanopy red maple is either >20' or excessively browsed and <5'.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	1	Pole	7		Red Maple	Low		Variable	Sapling
Bigtooth Aspen	5	Log/Pole	10		Red Oak	Trace		< 5 feet	Sapling
Red Maple	20	Log/Pole	12		Blueberry/Bilberry/Cranberry	Trace		< 5 feet	Tall Shrub
Red Oak	2	Pole	8		Bulrush	Trace		Unspecified	Non-Wood
White Pine	72	XLog/Log	18	95	Balsam Fir	Low		Variable	Sapling
					White Pine	Low		Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>21</b>	6120 - Lowland Cedar	Sawtimber Well	15.5	96	111-140	N/A	<p>Density varies greatly throughout this stand. Trace yellow birch and white pine in canopy. Rare dwarf scouring rush, balsam poplar, alder, red osier dogwood in subcanopy. Occasional cedar seedling/sapling on nurse log. Balsam fir subcanopy is low in some areas, full in others. Cedar mortality on north edge of stand where water table has risen (likely from increased beaver activity to north). Beaver and bobcat tracks in stand.</p> <p>Southcentral/east is more uplandy with an increase in red maple, quaking aspen, and yellow birch. Larger diameters, as well. Central portion of north half is also slightly less wet with larger diameters; central pocket holding Xlog/log quaking aspen and red maple. Significant blowdown on south edge of that northern portion.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		3	Log/Pole	12		Balsam Fir		Medium	Variable	Sapling	
Balsam Poplar		1	Log/Pole	12		Black Spruce		Trace	Variable	Sapling	
Balsam Fir		5	Pole/Sap/Log	8		Cattail spp.		Trace	Unspecified	Non-Wood	
Black Spruce		3	Pole/Log	8		Tag Alder		Trace	5 - 10 feet	Tall Shrub	
Northern White Cedar		61	Log/Pole	10	96						
White Spruce		2	Log/XLog	14							
Tamarack		5	Log/Pole	14							
Red Maple		12	Pole/Log	8							
Quaking Aspen		8	Log/XLog	14							
<b>22</b>	4130 - Aspen	Sapling Well	42.8	5	Immature	N/A		<p>Whole tree harvested and chipped by Tulgestka, PU3 of 'Wild Man Gularski Mix' 52-122-16. Harvest completed Nov '17. Aspen has since come in strong in most areas. West portion of stand was formally part of Stand 13 (has it's own regen Rx). All oak and red pine left, and some scattered white pine leave trees left per Rx.</p> <p>Trace hybrid oak, pin cherry, and white oak in canopy. Rare red pine sapling volunteers, primarily in skid trails. Trace residual sapling ironwood and beech. White pine saplings increase in north; trace residual log bigooth aspen.</p> <p>Nice scattered retention islands of mature pine (red, white) and aspen, some oak.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Pine		1	Log/Pole	14		Witch Hazel			Trace	5 - 10 feet	Tall Shrub
Ironwood		2	Sapling	1		Beech			Low	Variable	Sapling
Bigtooth Aspen		55	Sapling	1	5	White Ash			Trace	Variable	Sapling
Black/Red (Hybrid) Oak		2	Log/Pole/XLog	14		White Pine			Low	< 5 feet	Sapling
Quaking Aspen		25	Sapling	1	5	Bracken Fern			Medium	Unspecified	Non-Wood
Sugar Maple		3	Sapling	1		Ironwood			Low	Variable	Sapling
Sugar Maple		1	Log	13		Balsam Fir			Low	Variable	Sapling
Red Maple		6	Sapling	1		Red Maple			Low	< 5 feet	Tall Shrub
White Pine		3	Log/Pole/Sap	12		Black Cherry			Trace	< 5 feet	Sapling
Black Cherry		2	Sapling	1		Blackberry/Raspberry			Full	< 5 feet	Tall Shrub
						Maple Leaved Viburnum			Trace	< 5 feet	Tall Shrub
<b>23</b>	122 - Road/Parking Lot	Nonstocked	6.6		Unspecified	No	Wildwood Road and County right of way.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**24** 4130 - Aspen Sapling Medium 16.8 4 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Ironwood	1	Sapling	1	
Black Cherry	1	Sapling	1	
Black/Red (Hybrid) Oak	2	Pole/Log	8	
Balsam Fir	3	Sapling/Pole/Log	3	
Bigtooth Aspen	15	Sapling	1	
Red Maple	3	Sapling	1	
Quaking Aspen	70	Sapling	1	4
White Pine	5	Pole/Log/Sap	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	Variable	Sapling
White Ash	Trace	Variable	Sapling
Black Cherry	Trace	Variable	Sapling
Witch Hazel	Low	Variable	Tall Shrub
Balsam Fir	Trace	Variable	Sapling
Basswood	Trace	< 5 feet	Sapling
Sugar Maple	Trace	Variable	Sapling
Blackberry/Raspberry	High	< 5 feet	Tall Shrub
White Pine	Trace	< 5 feet	Sapling
Leatherwood	Trace	< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak	Trace	Variable	Sapling
Balsam Poplar	Trace	5 - 10 feet	Sapling
Bracken Fern	Trace	Unspecified	Non-Wood
American Fly Honeysuckle	Trace	5 - 10 feet	Tall Shrub
Ironwood	Medium	Variable	Sapling
Red Maple	Trace	Variable	Sapling
Black Ash	Trace	Variable	Sapling

Within the harvested portion of this stand, there are scattered residual white pine (densest in the east) and scattered oak (hybrid and white). Trace balsam poplar, white ash, hybrid oak (saplings), basswood, and white oak in canopy. Rare maple leaved viburnum and hazelnut in the subcanopy. Heavy browsing on subcanopy. West end of harvested portion, becoming very wet, contains more balsam poplar and trace cattails, bulrush, willow, and black ash. The inventory as reported does not account for long term retention, which is dominated by aspen, hemlock, yellow birch, and cedar to varying degrees. There are a couple old borrow pits (and refuse) within the stand. Trace BAM and leatherwood in the center. Witch hazel is present in the east, absent in the west. Thistle and mullein persist within the landing and skid trails. Hare tracks on south edge. West quarter of the stand has been identified as Long Term Retention and is, for the most part, too wet/sensitive to harvest. Far west is a half-acre plateau dominated by bigtooth aspen with white pine, beech, and balsam fir in the canopy. Subcanopy of plateau consists of balsam fir, white pine, beech, striped maple, white ash, hybrid oak, hazelnut, and witch hazel in various densities. From the plateau, the ground slopes south/southeast, containing many seeps from the hillside. Hillside, about 1.5 acres in total, is dominated by hemlock, yellow birch, and cedar. South edge of hillside feeds into adjacent cattail-dominated lowland stand 104; east edge flattens a bit, still wet and sloping south, becoming dominated by quaking aspen with trace cedar, oak, maple, and basswood (approximately 1.5 acres). Wet areas of long-term retention contain balsam fir, black ash, beech, ironwood, and michigan holly in the subcanopy.

Whole tree harvested and chipped by Tulgestka, PU4 of 'Wild Man Gularski Mix' 52-122-16. Harvest completed June '19. West portion of sale area is transitional with seasonally wet soils, some rutting occurred there during harvest. All oak and white pine left per Rx

**25** 4130 - Aspen Sapling Well 22.0 25 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Serviceberry (Juneberry)	3	Sapling	3	
White Pine	1	Log/XLog	16	
Red Oak	2	Log/XLog/Pole	14	
Red Maple	5	Sapling/Pole	4	
Bigtooth Aspen	72	Pole/Sapling	5	25
Quaking Aspen	15	Sapling/Pole	4	
Black Cherry	2	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	Variable	Sapling
White Pine	Trace	Variable	Sapling
Serviceberry (Juneberry)	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Beech	Low	Variable	Sapling

Trace paper birch, pin cherry, and red oak sap/poles in canopy. Trace residual log-sized hemlock, as well. Rare white spruce, balsam fir, ironwood, and red pine in subcanopy. Couple low, wet spots in stand with witherod within and around. One has become its own stand, dominated by michigan holly. There's a carbon plot within this stand. Hemlock around non-forested opening in easter, center. Areas still dominated by sapling bigtooth.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>26</b>	6113 - Lowland Maple	Poletimber Medium	14.8	58	81-110	N/A	Significant upland knoll in southeast dominated by bigtooth, red and white pine, and red maple (bigtooth aspen, red and white pine absent elsewhere). Otherwise, this is a very wet stand with a prominent drainage through the middle. Dead ash and a lot of ferns in understocked drainage. Trace quaking aspen, basswood, white spruce, elm, yellow birch, and paper birch in canopy. Rare nannyberry in subcanopy. Dead cedar and blowdown along north edge.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	1	XLog	18		Bulrush	Low		Unspecified	Non-Wood
Quaking Aspen	5	Pole/Log	8		Cattail spp.	Low		Unspecified	Non-Wood
Red Maple	75	Pole/Log	8	58	Red Maple	Trace		Variable	Sapling
Bigtooth Aspen	2	Log/XLog/Pole	12		Black Cherry	Low		Variable	Sapling
Balsam Fir	10	Pole/Log/Sap	8		Balsam Fir	Medium		Variable	Sapling
White Pine	2	Log/Pole/XLog	12		Black/Red (Hybrid) Oak	Trace		Variable	Sapling
Northern White Cedar	5	Log/Pole	12		Black Ash	Trace		Variable	Sapling
					Blueberry/Bilberry/Cranberry	Low		< 5 feet	Tall Shrub
					White Pine	Trace		< 5 feet	Sapling
					Alder Leaved Buckthorn	Low		< 5 feet	Tall Shrub
					Beech	Trace		< 5 feet	Sapling
					American Elm	Trace		>20 feet	Sapling
<b>27</b>	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	6.8	72	111-140	N/A		Trace hybrid oak, basswood, elm, white oak, beech, and white pine in canopy. Rare green ash, witch hazel, and elm in subcanopy. Upland hillsides with aspen transitioning into birch, hemlock, and cedar, sloping into this wet ravine. Yellow birch, red maple, hemlock dominated stand with pockets of cedar, aspen, and small pockets of paper birch. Very wet stand, standing water. Some flow to it, especially the east half as there's a more defined channel going northeast into stand 28. Ferns throughout.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Paper Birch	2	Log/Pole	10		Serviceberry (Juneberry)	Trace	10 - 20 feet		Sapling
Northern White Cedar	15	Pole/Log	8		Quaking Aspen	Trace	< 5 feet		Sapling
Hemlock	20	Log/Pole	12		Black Ash	Low	Variable		Sapling
Bigtooth Aspen	2	Log/XLog	14		Michigan Holly	Trace	< 5 feet		Tall Shrub
Yellow Birch	25	Log/Pole	10		Beech	Low	Variable		Sapling
Sugar Maple	1	Pole/Log/XLog	8		Honeysuckle (spp.)	Trace	< 5 feet		Tall Shrub
Quaking Aspen	7	Log/Pole/XLog	12	72	Nannyberry	Trace	5 - 10 feet		Tall Shrub
<b>28</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	11.4	102	51-80	N/A	Channels run throughout the entire stand, flowing northeast. A lot of mortality in the east third of the stand from flooding. East half of the stand is occupied by low basal area, 1-30 (except in a pocket of Xlog/log cedar), consisting of scattered quaking aspen, balsam poplar, and balsam fir. Occasional red maple. West half of the stand still has areas with low BA, but generally increases to 60-130, occasionally higher in dense cedar and hemlock. Cedar and hemlock dominate the west half with a higher inclusion of red maple and yellow birch, trace basswood. Paper birch is present across the entire stand in very low volumes. Rare mountain maple, basswood, bulrush, nannyberry, white pine, and willow in the subcanopy. Just a couple sapling hemlock, browsed.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Poplar	22	Log/Pole	10		Cattail spp.	Trace		Unspecified	Non-Wood
American Elm	1	Pole/Sapling	6		Alder Leaved Buckthorn	Trace		< 5 feet	Tall Shrub
Red Maple	5	Pole/Log/Sap	6		Black Ash	Low		Variable	Sapling
Basswood	1	Log/Pole	12		Balsam Poplar	Low		Variable	Sapling
Paper Birch	2	Pole/Sap/Log	6		Ironwood	Trace		Variable	Sapling
Yellow Birch	4	Log/Pole	12		Tag Alder	Trace		Variable	Tall Shrub
Northern White Cedar	25	Log/XLog/Pole	14	102	Balsam Fir	Low		Variable	Sapling
Balsam Fir	20	Pole/Sap/Log	8						
Quaking Aspen	15	Log/Pole	12	76					
Hemlock	5	Log/Pole	11						



**Stand**      **Level 4 Cover Type**      **Size Density**      **Acres**      **Stand Age**      **BA Range**      **Managed Site**      **General Comments**

**29**      4130 - Aspen      Sawtimber Well      73.8      53      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	1	Log/Pole	10	
Red Oak	2	XLog/Log/Pole	20	
Red Maple	5	Pole/Log	8	
Paper Birch	5	Pole/Log	8	
Quaking Aspen	8	Pole/Log	8	
Black Cherry	1	Pole	8	
Sugar Maple	2	Log/Pole	10	
White Pine	2	Log/Pole/XLog	14	
Bigtooth Aspen	74	Log/Pole	11	53

Sub-Canopy Species	Density	Avg. Height	Size
Hazelnut (Beaked)	Trace	5 - 10 feet	Tall Shrub
White Pine	Trace	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub
Red Oak	Trace	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Striped Maple	Trace	5 - 10 feet	Sapling
White Ash	Trace	Variable	Sapling
Maple Leaved Viburnum	Trace	< 5 feet	Tall Shrub
Ironwood	Low	Variable	Sapling
Red Maple	Trace	Variable	Sapling
Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
Beech	Low	Variable	Sapling
Witch Hazel	Trace	5 - 10 feet	Tall Shrub

Trace elm, balsam fir, basswood, yellow birch, white cedar, red pine, balsam poplar, white oak in canopy. Rare black ash, white oak, black cherry, white cedar, white spruce in subcanopy. Portion of stand north of main drainage (stands 27 and 28) is more diverse and includes a mix of upland and lowland ground and associated plants. Drainages/seeps often contain hemlock and yellow birch, occasionally cedar and black ash. Subcanopy is occupied by lowland grasses and shrubs (cattails, bulrush, red osier dogwood, willow). More balsam fir in canopy and high stocking in subcanopy in northeast leg (north of stand 28). East side of southern portion is heavier to white pine and sees an increase in balsam fir. Bracken fern and wintergreen are the prominent ground flora. Increase in quaking aspen, witch hazel, and serviceberry east of the main road. Trace relic red pine, scattered. Increased residual red oak (Xlog/log) in south tip. There's one small pocket of nice sapling-dominated hardwood in the area.

**30**      42290 - Natural Mixed Pine      Sawtimber Well      8.8      96      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log/Sap	7	
Quaking Aspen	5	Log/Pole	12	
Balsam Fir	4	Pole/Log	8	
White Pine	35	Log/XLog/Pole	14	
Red Pine	35	XLog/Log/Pole	18	96
Paper Birch	1	Pole/Sap/Log	8	
Bigtooth Aspen	15	Log/Pole/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	Variable	Sapling
Serviceberry (Juneberry)	Trace	Variable	Sapling
Northern White Cedar	Trace	>20 feet	Log
Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Red Maple	Trace	Variable	Sapling
White Ash	Trace	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Witch Hazel	Trace	Variable	Tall Shrub
Bracken Fern	Low	Unspecified	Non-Wood
Black/Red (Hybrid) Oak	Trace	Variable	Sapling
Beech	Trace	< 5 feet	Sapling

Band of mortality through middle of stand along the drainage. Not currently flooded, but good potential for seasonal flooding. White pine has tolerated flooding better than red pine in the past. Trace hybrid oak in canopy. Rare nannyberry, paper birch in subcanopy. 100% closure dominated by mature pine except along central drainage. Increase in ash saplings in the northeast tip.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
<b>31</b>	4130 - Aspen	Sapling Well	16.5	18	Immature	N/A	Trace white oak and beech in canopy. Rare michigan holly, ironwood, balsam fir, honeysuckle, blueberry, and maple leaved viburnum in subcanopy. Pocket of stiff clubmoss in center of stand. Low areas have a higher prevalence of paper birch, annyberry, hemlock, michigan holly, and balsam fir. Paper birch is a little more consistently present in north and northeast, but still at insignificant levels. But more subcanopy diversity along southern edge with seed dispersal from adjacent hardwood. Scattered residual oak and hemlock.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Bigtooth Aspen		70	Sapling/Pole	4	18	White Ash		Trace	Variable	Sapling		
Red Oak		1	Pole/Sap/Log	8		Beech		Low	Variable	Sapling		
Pin Cherry		1	Sapling	3		Witch Hazel		Trace	5 - 10 feet	Tall Shrub		
Black Cherry		2	Sapling	3		Serviceberry (Juneberry)		Low	Variable	Sapling		
Quaking Aspen		15	Sapling/Pole	3		Nannyberry		Trace	5 - 10 feet	Tall Shrub		
Paper Birch		2	Sapling	2		White Pine		Trace	Variable	Sapling		
Serviceberry (Juneberry)		1	Sapling	2								
Red Maple		5	Sapling	3								
Hemlock		3	Log/Pole	12								
<b>32</b>	4133 - Aspen, Mixed Pine	Poletimber Well	3.2	42	51-80	N/A		Trace jack pine and balsam fir in canopy. Rare beech in subcanopy. Charred stumps throughout stand. Two aged aspen and red maple: log age class, also a separate pole/sap age class. Oak is present in Xlog/log and separately pole/sap.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Red Pine		25	Log/XLog/Pole	14		Serviceberry (Juneberry)			Trace	Variable	Sapling	
White Pine		5	Pole/Log/XLog	8		Blueberry/Bilberry/Cranberry			Low	< 5 feet	Tall Shrub	
Red Maple		3	Pole/Log	8		Huckleberry			Low	< 5 feet	Tall Shrub	
Bigtooth Aspen		65	Pole/Log/Sap	7	42	Red Pine			Low	5 - 10 feet	Sapling	
Black/Red (Hybrid) Oak		2	XLog/Log/Pole	22		Red Maple			Trace	>20 feet	Sapling	
						White Pine			Low	Variable	Sapling	
						Black/Red (Hybrid) Oak			Trace	Variable	Sapling	
						Balsam Fir			Trace	Variable	Sapling	
<b>33</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	59.7	96	111-140	N/A	Trace bigtooth aspen and paper birch in canopy. Yellow birch, hemlock, and red maple are associated with traces of paper birch. Seeps present in southwest: somewhat hummocky with increase in hemlock and yellow birch. Hill in center of stand is heavy to beech with dense beech brush, all infected with BBD.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Hemlock		1	Log	12		Beech			High	Variable	Sapling	
Red Maple		14	Log/XLog/Pole	16		White Ash		Trace	Variable	Sapling		
Basswood		20	Log/XLog	14		Ironwood		Trace	Variable	Sapling		
Yellow Birch		2	Log/Pole	12		Hemlock		Trace	>20 feet	Pole		
Beech		5	Log/Pole/XLog	16		Sugar Maple		Low	< 5 feet	Seeding		
Red Oak		3	XLog	24		Sugar Maple		Low	>20 feet	Sapling		
Sugar Maple		55	Log/Pole/XLog	12	96							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>34</b>	4311 - Pine, Aspen Mix	Sapling Well	27.5	26	51-80	N/A	<p>A very diverse two-aged stand, difficult to represent within the confines of MiFI. about 35% of the stand canopy is log/xlog (occasional pole) red and white pine, and hybrid and white oak. The remaining 65% consists of a younger cohort of sapling/pole aspen, jack pine, red maple, and oak with trace balsam fir. Subcanopy contains rare occurrences of cherry and spruce.</p> <p>Few scattered charred stumps; couple legacy red pine. Notable lack of coarse woody debris. Lesser quality hybrid oak, some decline but still lingering. Pockets of denser red pine have slightly lower average diameters, 12". Some pockets of aspen are coming into pole class. Added the northwest 3 acres to this stand: 8" average pole-dominated bigtooth with trace quaking aspen, but similar "supercanopy" pine and oak. BAs are higher, too.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black/Red (Hybrid) Oak	5	Log/XLog/Pole	14		Balsam Fir	Trace		Variable	Sapling
Bigtooth Aspen	37	Sapling/Pole	4	26	Red Pine	Trace		Variable	Sapling
White Oak	1	XLog	20		Bracken Fern	High		Unspecified	Non-Wood
White Pine	10	Pole/Log/Sap	8		Serviceberry (Juneberry)	Trace		5 - 10 feet	Sapling
Jack Pine	15	Sapling/Pole	4	26	Sweet Fern	Trace		< 5 feet	Tall Shrub
Red Pine	20	Log/XLog/Pole	14	86	Beech	Trace		5 - 10 feet	Sapling
Red Maple	10	Sapling	3		Huckleberry	Trace		< 5 feet	Tall Shrub
White Oak	2	Sapling	3		White Oak	Low		Variable	Sapling
					Black/Red (Hybrid) Oak	Medium		Variable	Sapling
					Jack Pine	Low		Variable	Sapling
					Wintergreen	Medium		< 5 feet	Tall Shrub
					White Pine	Low		Variable	Sapling
					Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub	
<b>35</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	31.7	3	Immature	N/A	<p>Trace sugar maple and red oak in canopy and subcanopy. Observed two white pine saplings &lt;5' in south. Scattered residual oak in south and far east. Bit more open under residual oak with an increase in red maple, penn sedge.</p> <p>Very high acorn production last fall and a lot of germination. Uncertain if any will establish, much less recruit.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Pin Cherry	95	Sapling	1	3	Beech	Medium		< 5 feet	Sapling
Red Oak	3	XLog/Log/Pole	20		Blackberry/Raspberry	Medium		< 5 feet	Tall Shrub
Red Maple	1	Sapling	1		Ironwood	Trace		< 5 feet	Sapling
Beech	1	Sapling	1						
<b>36</b>	3301 - Low Density Deciduous Trees	Nonstocked	64.4		Unspecified	4211 - Planted Red Pine	<p>Site has been roller chopped and trenched, awaiting planting. Site prep herbicide completed 07/19/24.</p> <p>Thistle and milkweed present.</p>		
Sub-Canopy Species	Density	Avg. Height	Size						
Bigtooth Aspen	Low	< 5 feet	Sapling						
Bracken Fern	High	Unspecified	Non-Wood						
Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling						
Red Pine	Trace	< 5 feet	Sapling						
White Pine	Trace	>20 feet	Log						
Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub						
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub						
Jack Pine	Trace	< 5 feet	Sapling						
White Oak	Trace	< 5 feet	Sapling						
Black Cherry	Trace	< 5 feet	Sapling						
Red Maple	Low	< 5 feet	Tall Shrub						
Spotted Knapweed	Low	Unspecified	Non-Wood						
Quaking Aspen	Low	< 5 feet	Sapling						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>37</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	49.2	98	51-80	N/A	Red oak present in two age classes: 45% Xlog/log, 1925 origin, and 5% pole/sap 1975 origin. Aspen generally 1975 but some are 1987 origin resulting from two separate harvests. Oak is high quality and still going strong. Pin cherry is declining. Trace yellow birch, hemlock, white oak, paper birch in canopy. Rare black cherry, striped maple, and yellow birch in subcanopy. Illegal trails through the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry		2	Pole/Sapling	6		White Pine		Low	Variable	Sapling
Red Oak		50	XLog/Log/Pole	20	98	Serviceberry (Juneberry)		Trace	Variable	Sapling
Bigtooth Aspen		23	Pole/Log	8	48	Hemlock		Trace	>20 feet	Log
Sugar Maple		1	Sapling/Pole	4	34	Beech		Low	Variable	Sapling
White Pine		1	Log/Pole	10		Red Maple		Low	Variable	Sapling
Pin Cherry		3	Sapling/Pole	4						
Red Maple		20	Pole/Sapling	6						

<b>38</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.2	96	51-80	N/A	Stand was partially harvested in 2020 in an effort to start unevenaged management in hardwood. Part of 52-123-16 Spartan Aspen and Hardwood. Consult timber sale notes for cruise data if desiring better data on preexisting canopy. Current BA is around 75. Trace yellow birch and black cherry in canopy. Rare black cherry and red oak in subcanopy. Rubus at medium density, but not all robust - it's generally <2'. Dead and dying beech (from BBD). Nice residual except for a few multi-stemmed red maple and really bad beech. Trace hemlock on east edge of stand. Trace white pine saplings in the middle, south edge.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Beech		5	Log/Pole	16		White Pine		Trace	< 5 feet	Sapling
Red Maple		20	Log/Pole	14	96	Red Maple		Trace	< 5 feet	Tall Shrub
Red Oak		20	XLog/Log	18		Beech		High	Variable	Sapling
Sugar Maple		55	Log/Pole	12	96	Sugar Maple		Medium	< 5 feet	Seeding
						Ironwood		Low	Variable	Sapling
						Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub
						Hemlock		Trace	>20 feet	Pole
						Sugar Maple		Trace	>20 feet	Sapling

<b>39</b>	6112 - Lowland Aspen	Sawtimber Medium	2.6	95	51-80	N/A	Dead white cedar occupies the center of the stand - declined from 30% last inventory cycle to 2% this cycle. One 36" white pine present. Trace balsam poplar, paper birch, sugar maple, and white spruce in canopy. Rare red oak and beech in the subcanopy. Sparse cattails under dead cedar. Trace white oak on southeast perimeter.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		10	XLog/Log/Pole	20		Tag Alder		Trace	5 - 10 feet	Tall Shrub
Quaking Aspen		40	Log/Pole/XLog	12	95	Red Maple		Trace	Variable	Sapling
Red Pine		3	XLog	20		Cattail spp.		Trace	Unspecified	Non-Wood
Balsam Fir		3	Pole/Log	8		Nannyberry		Trace	5 - 10 feet	Tall Shrub
Northern White Cedar		2	Log/Pole	12	95	Balsam Fir		Low	Variable	Sapling
Black Cherry		2	Pole	8		White Pine		Trace	Variable	Sapling
Red Maple		40	Log/Pole	10	95					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>40</b>	4130 - Aspen	Sapling Well	84.1	11	Immature	N/A	Trace paper birch, residual white pine (log/pole), and red pine in canopy. Rare ironwood, witch hazel, honeysuckle, striped maple, and maple leaved viburnum in subcanopy. Balsam fir subcanopy is associated with quaking aspen. Beech subcanopy is clumpy and most prominent in east. Spotted knapweed in skid trails. Very little snag or coarse woody debris material. Much higher red maple, black cherry, and beech stocking around residual oak clumps. Some varied terrain. Mullein present.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	57	Sapling	2	11	Beech	Low		Variable	Sapling
White Oak	2	Sapling	2		Balsam Fir	Trace		Variable	Sapling
Red Oak	4	Sapling	2		White Pine	Trace		Variable	Sapling
Black Cherry	6	Sapling	2		Blueberry/Bilberry/Cranberry	Low		< 5 feet	Tall Shrub
Beech	1	Sapling	1		Black Cherry	Trace		Variable	Sapling
Quaking Aspen	10	Sapling	2	11	Blackberry/Raspberry	Trace		< 5 feet	Tall Shrub
Red Oak	3	Log/XLog	16		White Oak	Trace		Variable	Sapling
White Pine	1	Log/Pole	10		Juniper	Trace		< 5 feet	Tall Shrub
Red Maple	15	Sapling	1	11	Wintergreen	Trace		< 5 feet	Tall Shrub
White Oak	1	Log	14		Red Pine	Trace		Variable	Sapling
					Bracken Fern	Low		Unspecified	Non-Wood
					Red Oak	Trace		Variable	Sapling
					Serviceberry (Juneberry)	Trace	Variable	Sapling	
<b>41</b>	4319 - Mixed Upland Forest	Sawtimber Well	20.9	106	81-110	N/A	Fairly consistently white pine with quaking aspen and red maple. Oak is mostly present in the north half; birch, red pine, and bigtooth aspen come and go. Trace black cherry, sugar maple in canopy. Rare striped maple, witch hazel, honeysuckle, maple leaved viburnum, and hemlock in subcanopy. Awesome relic red pine, scattered. Portions of west edge were previously flooded resulting in near complete mortality, save scattered balsam fir. South tip has drainages, some tip-ups: quaking aspen dominated with red maple and white pine (trace red oak and paper birch). Full balsam fir subcanopy. Far northeast leg is dominated by hemlock. Far northwest segment, nearly removed, has a high white oak component to the canopy (lacking elsewhere).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	45	XLog/Log/Pole	18	106	Blueberry/Bilberry/Cranberry	Low		< 5 feet	Tall Shrub
Red Pine	5	Log/Pole/XLog	14		White Pine	Trace		Variable	Sapling
White Oak	2	Log/Pole	10		Hemlock	Trace		>20 feet	Pole
Paper Birch	3	Log/Pole	10		Red Maple	Low		Variable	Sapling
Red Maple	11	Log/Pole	10		Serviceberry (Juneberry)	Low		Variable	Sapling
Hemlock	3	Log/Pole/XLog	14		Beech	High		Variable	Sapling
Red Oak	11	Log/Pole	14		Hazelnut (Beaked)	Trace		5 - 10 feet	Tall Shrub
White Spruce	1	Log/XLog	16		Balsam Fir	Trace		Variable	Sapling
Bigtooth Aspen	2	Log	16		Black Cherry	Trace		Variable	Sapling
Quaking Aspen	17	Log/Pole	14						
<b>42</b>	4130 - Aspen	Sapling Well	6.2	12	Immature	N/A		Rare red oak, balsam fir, and white pine in canopy. Trace white hazel, balsam fir, maple leaved viburnum in subcanopy. The north unit is quaking aspen dominated with 5% black cherry, 5% red maple, trace hemlock. South unit occupies a pretty decent south-facing hillside and is more bigtooth with scattered quaking, cherry, and red maple. A few residual hemlock, log/xlog, present. Less cherry in south than in north.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
White Pine	1	Pole/Sapling	6		Red Oak	Trace	Variable		Sapling
Red Maple	5	Sapling	2	12	Black Cherry	Trace	Variable		Sapling
Quaking Aspen	30	Sapling	2	12	Blackberry/Raspberry	Low	< 5 feet		Tall Shrub
Bigtooth Aspen	60	Sapling	3	12	White Pine	Trace	Variable		Sapling
Black Cherry	2	Sapling	2		Red Maple	Trace	Variable		Sapling
Hemlock	2	Log	12		Beech	Trace	Variable		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>43</b>	4130 - Aspen	Sawtimber Well	71.1	56	111-140	N/A	Two oak cohorts: 5% 18" Xlog/log, 3% 10" Log/Pole. Trace white oak, basswood, and beech in canopy. Rare white ash, serviceberry, maple leaved viburnum, and paper birch in subcanopy. Couple scattered dead ash and dead elm. Red and white pine residuals are primarily in north. Far amount of hemlock and residual white pine and red oak in northwest. Occasional beech drops, associated with beech. Much higher balsam fir stocking in canopy and subcanopy when associated with quaking aspen in south.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	2	Pole/Log	8		Red Oak	Trace		< 5 feet	Sapling
Red Maple	15	Pole/Sap/Log	7		Hemlock	Trace		>20 feet	Log
Black Cherry	2	Pole/Log	8		Sugar Maple	Low		Variable	Sapling
Red Oak	8	Log/Pole/XLog	10		Blueberry/Bilberry/Cranberry	Trace		< 5 feet	Tall Shrub
Paper Birch	4	Pole/Log/Sap	7		Red Maple	Low		Variable	Sapling
White Pine	3	XLog/Log/Pole	18		Striped Maple	Trace		Variable	Sapling
Quaking Aspen	10	Log/Pole	10		Beech	Trace		Variable	Sapling
Bigtooth Aspen	55	Log/Pole	10	56	White Oak	Trace		Variable	Sapling
Red Pine	1	XLog/Log	18		Ironwood	Trace		Variable	Sapling
					Bracken Fern	Trace		Unspecified	Non-Wood
<b>44</b>	4133 - Aspen, Mixed Pine	Sawtimber Well	18.1	63	81-110	N/A	Trace paper birch, balsam fir, and jack pine in canopy. Rare black cherry, witch hazel, red pine in subcanopy. Narrow band in the northwest with dense balsam fir and white pine sap/poles under 50-75% canopy closure of red maple, quaking aspen, and white pine. More hummocky than the rest of the stand, but appears dry. Might have some seasonal wetness to it. Northeast knuckle has some Xlog red pine, bigtooth, and white pine. East edge of stand is transitional into the adjacent lowland.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	3	Log/XLog	16		Red Maple	Trace		>20 feet	Sapling
Quaking Aspen	10	Pole/Log	8		Balsam Fir	Low		Variable	Sapling
Red Maple	10	Pole/Log	8		Blueberry/Bilberry/Cranberry	Low		< 5 feet	Tall Shrub
White Pine	20	Log/Pole/XLog	10		Bracken Fern	Medium		Unspecified	Non-Wood
Bigtooth Aspen	55	Log/Pole/XLog	12	63	Nannyberry	Trace		5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	2	Log/XLog	16		White Pine	Medium		Variable	Sapling
					Beech	Trace		Variable	Sapling
					Black/Red (Hybrid) Oak	Trace		Variable	Sapling
<b>45</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	96.7	97	81-110	N/A		Trace paper birch, yellow birch, american elm, red pine, white pine in canopy. Rare red oak, maple leaved viburnum in subcanopy. Rare successful sugar maple stump sprout. All but one beech looks quite . . . bad. Increase in hemlock in north, especially along steeper hillsides. Increase in red maple and beech in the north, as well.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Red Maple	15	Log/Pole	12		Balsam Fir	Trace	Variable		Sapling
Bigtooth Aspen	4	Log	14		White Ash	Trace	Variable		Sapling
Basswood	20	Log/Pole/XLog	14		Black Cherry	Trace	Variable		Sapling
Red Oak	8	Log/XLog/Pole	16		Ironwood	High	Variable		Sapling
Black Cherry	2	Log	12		Hemlock	Low	>20 feet		Pole
Sugar Maple	45	Log/Pole	12	97	Sugar Maple	Low	Variable		Sapling
Beech	6	Log/Pole	12		Blackberry/Raspberry	Trace	< 5 feet		Tall Shrub
					White Pine	Trace	< 5 feet		Sapling
					Beech	High	Variable		Sapling
					Sugar Maple	Low	< 5 feet		Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
<b>46</b>	42110 - Planted Red Pine	Sawtimber Well	12.0	64	111-140	N/A	Thinning complete 10/2020 Stafford for President, 52-124-16. Trace black cherry and white pine in middle island; trace red oak in north. Rare white oak in subcanopy. South island: little bit of mortality with no discernable pattern. Very few trees flagging. High beech, medium striped maple, low balsam fir, red maple, and raspberry. Middle island: No recent mortality. Medium beech and sugar maple, low ironwood and red maple. North island: No recent mortality. High beech, medium red maple, low balsam fir, trace serviceberry and striped maple.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Red Maple		1	Log	12		Ironwood		Trace	Variable	Sapling		
Red Pine		98	Log/Pole	11	64	Striped Maple		Medium	Variable	Sapling		
Quaking Aspen		1	Log	14		Blackberry/Raspberry		Trace	< 5 feet	Tall Shrub		
						Serviceberry (Juneberry)		Trace	5 - 10 feet	Sapling		
						Paper Birch		Trace	>20 feet	Pole		
						Balsam Fir		Low	Variable	Sapling		
						Red Maple		Medium	Variable	Sapling		
						Beech		High	Variable	Sapling		
						Sugar Maple		Low	Variable	Sapling		
<b>47</b>	4130 - Aspen	Sapling Well	35.8	26	1-50	N/A		Trace white oak and beech in canopy. Rare maple leaved viburnum, white spruce, honeysuckle in subcanopy. Small non-forested opening in the south, on the east perimeter, with serviceberry, black cherry, red oak, and red maple; red and white pine, balsam fir on the perimeter. Nearly a pole stand, but still very much dominated by saplings.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
White Pine		1	Log/XLog	14		Serviceberry (Juneberry)			Low	Variable	Sapling	
Bigtooth Aspen		80	Pole/Sapling	5	26	Ironwood			Trace	>20 feet	Sapling	
Red Maple		2	Sapling	3		Black Cherry			Trace	Variable	Sapling	
Red Oak		1	Pole/Sap/Log	5		Red Maple			Trace	Variable	Sapling	
Paper Birch		1	Sapling	4		Balsam Fir			Low	Variable	Sapling	
Balsam Fir		2	Pole/Log	8		Beech			Trace	Variable	Sapling	
Quaking Aspen		13	Sapling/Pole	4		Bracken Fern			High	Unspecified	Non-Wood	
						Wintergreen			Low	< 5 feet	Tall Shrub	
<b>48</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	10.7	28	1-50	N/A	Two-aged with residual scattered red oak, balsam fir, red pine, and white pine. Trace residual bigtooth aspen in the far south. Oak is more prominent with larger diameters in the north. Trace white oak, quaking aspen, and beech in canopy. One juniper observed; rare maple leaved viburnum and white pine in subcanopy.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
White Pine		1	Log/Pole/XLog	14		Striped Maple			Trace	10 - 20 feet	Sapling	
Pin Cherry		2	Sapling	3		Beech		Low	Variable	Sapling		
Bigtooth Aspen		5	Pole/Sap/Log	6		Ironwood		Trace	Variable	Sapling		
Black Cherry		10	Sapling	3		Balsam Fir		Low	Variable	Sapling		
Ironwood		10	Sapling	3		Red Maple		Low	Variable	Sapling		
Balsam Fir		5	Log/Pole	10		Serviceberry (Juneberry)		Low	Variable	Sapling		
Red Maple		45	Sapling/Pole	3	28							
Serviceberry (Juneberry)		5	Sapling	3								
Red Oak		17	Log/Pole	12	68							





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**49** 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 3.6 103 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	21	Pole/Sapling	6	
Quaking Aspen	25	Log/Pole	10	
Bigtooth Aspen	2	Log/XLog	14	
Northern White Cedar	25	Pole/Log	8	103
Red Maple	25	Log/Pole/XLog	12	
Paper Birch	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Red Maple	Trace	Variable	Sapling
Beech	Trace	Variable	Sapling
Tag Alder	Low	10 - 20 feet	Tall Shrub
Balsam Poplar	Low	Variable	Sapling
Mountain Maple	Trace	5 - 10 feet	Sapling
Paper Birch	Low	10 - 20 feet	Sapling

Trace basswood and elm in the wet portion of the stand. Trace red pine, X oak, and white oak in the upland portion. Rare serviceberry, hazelnut, white spruce, white oak, white cedar in subcanopy. Drainage from beaver dam flows west to east in the northwest, dumping into lowland. Stand is about 65% lowland and 35% upland. Could reasonably merge lowland portion with adjacent compartment's C5, which would orphan a 1+ acre upland aspen/red maple stand. Upland portion is dominated by aspen and red maple with dense balsam fir; trace oak, red pine, and paper birch. Lowland is dominated by cedar with red maple and balsam fir, scattered aspen. Variable subcanopy.

**50** 4112 - Maple, Beech, Cherry Association Sawtimber Well 6.8 73 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	1	Pole/Log	8	
Bigtooth Aspen	2	Log/Pole	10	73
Red Maple	76	Log/Pole	12	73
Black Cherry	2	Log/Pole	10	
White Pine	1	Log/Pole	14	
Beech	3	Log/Pole	10	
Red Oak	15	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	Variable	Sapling
Beech	Medium	Variable	Sapling
White Pine	Trace	Variable	Sapling
Sugar Maple	Trace	>20 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Ironwood	Trace	Variable	Sapling

Stand is dominated by multi-stemmed red maple except in the northwest where it becomes red oak dominated with an increase in canopy sugar maple, white pine, and paper birch. Higher ironwood subcanopy under oak in northwest, also. One yellow birch in far east (5.6" dbh). Trace balsam fir and paper birch in canopy. Rare striped maple, serviceberry, and red oak in subcanopy.

**51** 4130 - Aspen Sapling Well 7.0 26 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Beech	1	Pole/Sap/Log	8	
Bigtooth Aspen	70	Pole/Sapling	5	26
Black Cherry	2	Sapling/Pole	3	
Quaking Aspen	5	Pole/Sap/Log	8	
Red Maple	7	Sapling/Pole	3	
Red Oak	15	Pole/Log/Sap	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Sapling
Black Cherry	Trace	Variable	Sapling
Serviceberry (Juneberry)	Low	Variable	Sapling
Wintergreen	Medium	< 5 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling
Beech	Low	Variable	Sapling
Bracken Fern	High	Unspecified	Non-Wood
Red Oak	Trace	Variable	Sapling
Red Pine	Trace	Variable	Sapling

Canopy red oak is two-aged: 14% 8" P/L/X, 2% 3" Sap. Percentages includes north third which is an (generally) inoperable hillside, with an increase in oak and quaking aspen, red maple. Otherwise, the stand is 95% bigtooth aspen with 3% red maple and 2% black cherry. Simplified subcanopy under bigtooth aspen, more diverse in north third. Couple intact hillsides, too steep for harvesting. Old grade through stand



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>52</b>	4130 - Aspen	Sapling Well	21.2	26	Immature	N/A	<p>Trace white ash, balsam fir, serviceberry, and white spruce in canopy. Rare balsam fir, hemlock, white pine, red oak, red pine, and maple leaved viburnum in subcanopy. Some erect juniper. Trace log red pine in stand on edges.</p> <p>North tip, north of the snowmobile trail, is a small inclusion of mature hardwood, 110-140 BA: 60% sugar maple, 40% red maple, low stocking of beech and sugar maple in the subcanopy.</p> <p>Far south portion, east half, is dominated by black cherry and ironwood. Oak is two aged: sap/pole and pole/log, but represented as sap and log for differentiation in MiFI.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	1	Sapling	2		Juniper	Trace		Variable	Tall Shrub
Red Maple	5	Sapling	3		Striped Maple	Trace		10 - 20 feet	Sapling
Ironwood	3	Sapling	2		Serviceberry (Juneberry)	Low		Variable	Sapling
Bigtooth Aspen	81	Sapling/Pole	4	26	Sugar Maple	Low		Variable	Sapling
Beech	1	Sapling	4		Beech	Medium		Variable	Sapling
Red Oak	2	Log	10						
Quaking Aspen	2	Sapling/Pole	4						
Red Oak	1	Sapling	2						
Black Cherry	3	Sapling/Pole	3						
Pin Cherry	1	Sapling	4						
<b>53</b>	622 - Lowland Shrub	Nonstocked	14.8		Unspecified	No		<p>Series of beaver dams and ponds. Beavers are still active out there. Couple forested swaths on the backside of dams. One large (half acre-ish) patch in the middle of the stand occupied by P/L/S balsam fir with white cedar (as observed from southeast edge).</p>	
Sub-Canopy Species	Density	Avg. Height	Size						
Cattail spp.	Low	Unspecified	Non-Wood						
Northern White Cedar	Trace	Variable	Sapling						
White Spruce	Trace	>20 feet	Pole						
Black Spruce	Trace	Variable	Sapling						
Balsam Fir	Low	Variable	Sapling						
Tamarack	Trace	Variable	Sapling						
<b>54</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	19.7	36	51-80	N/A	<p>West third of the stand - a solid narrow swath from north to south, is aspen dominated. East two-thirds, again: solid swath north to south, is hardwood dominated. This stand could easily be split into two separate stands.</p> <p>Trace white pine and paper birch in canopy. Far northeast has a unique quarter acre pocket of pole/log paper birch with red oak.</p> <p>Rare striped maple and red pine in subcanopy.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	15	Pole/Sapling	5		Red Maple	Low		Variable	Sapling
Pin Cherry	2	Sapling/Pole	4		Beech	Trace		Variable	Sapling
Sugar Maple	5	Sapling/Pole	4		Black Cherry	Low		Variable	Sapling
Serviceberry (Juneberry)	4	Sapling	3		Red Oak	Trace		Variable	Sapling
Ironwood	1	Sapling	3		Balsam Fir	Low		Variable	Sapling
Red Oak	3	Pole/Log	8		Bracken Fern	Trace		Unspecified	Non-Wood
Bigtooth Aspen	35	Pole/Log/Sap	8	36	Serviceberry (Juneberry)	Low		Variable	Sapling
Red Maple	32	Pole/Sapling	5		Ironwood	Trace		Variable	Sapling
Balsam Fir	3	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>55</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	8.8	103	81-110	N/A	<p>This could most certainly be split into two separate stands, north and south. North half is 25% forested, sap/pole low density (10-30 BA) cedar, spruce, fir swamp; cattail (medium), willow (low), and red osier dogwood (low). Very hummocky, mossy, with floating mats. Old beaver damage. Dead black ash and a significant amount of dead standing balsam fir. South half is more densely forested, log/pole, 150-200 BA: nice quality cedar swamp with high stocking of balsam fir in the subcanopy. Hemlock, yellow birch, and striped maple are present here and absent in the north half. Black ash saplings present in both north and south. Small inclusion of alder in the south. Trace larch, paper birch, and white pine in the canopy. Rare chokeberry and white cedar in the subcanopy.</p>			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Yellow Birch	2	Pole/Sap/Log	6		Willow spp.	Low		Variable	Sapling	
Balsam Fir	35	Sapling/Pole/Log	4		Red Osier Dogwood	Low		< 5 feet	Tall Shrub	
Red Maple	2	Pole/Sap/Log	6		Northern White Cedar	Trace		< 5 feet	Sapling	
Hemlock	3	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling	
Northern White Cedar	45	Log/Pole/Sap	10	103	Black Spruce	Trace		Variable	Sapling	
White Spruce	3	Log/Pole	12		Cattail spp.	Low		Unspecified	Non-Wood	
Black Spruce	7	Sapling/Pole	4		Alder Leaved Buckthorn	Trace		< 5 feet	Tall Shrub	
Quaking Aspen	3	Log/XLog	16		Black Ash	Low		Variable	Sapling	
					Tag Alder	Trace		Variable	Tall Shrub	
					Striped Maple	Trace		Variable	Sapling	
<b>56</b>	4119 - Mixed Northern Hardwoods	Sapling Medium	20.0	22	1-50	N/A		<p>Stand is almost two aged, with about 5% residual (0-40 BA) log/pole/xlog pine, oak, and fir in a supercanopy position to sap/pole class. (Trace residual sugar maple.) Northeast portion of stand has a northeast-facing slope with a pocket of nice residual balsam fir + white pine and white oak. Trace paper birch and sugar maple in canopy. Rare white oak and ironwood in subcanopy.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Beech	1	Sapling/Pole	4		Red Maple	Trace			Variable	Sapling
Red Pine	1	Log/Pole	14		Bracken Fern	Low	Unspecified		Non-Wood	
Black Cherry	25	Sapling/Pole	4		White Pine	Trace	Variable		Sapling	
Balsam Fir	4	Pole/Log	8		Beech	Trace	Variable		Sapling	
Red Oak	2	Sapling/Pole	4		Balsam Fir	Low	Variable		Sapling	
Red Maple	45	Sapling/Pole	4	22	Serviceberry (Juneberry)	Low	Variable		Sapling	
White Oak	3	Sapling/Pole/Log	4							
Serviceberry (Juneberry)	10	Sapling	2							
Ironwood	2	Sapling	2							
Sugar Maple	5	Sapling	3							
White Pine	2	XLog/Log	18							
<b>57</b>	4130 - Aspen	Sapling Medium	14.6	3	Immature	N/A	<p>Part of Spartan Aspen and Hardwood, 52-123-16. Parent stand was 25% QA, 20% BTA, 20% BF, 15% WC, 15% RM, 5% PB according to previous inventory. Subcanopy consisted of BF, RM, and QA. Quaking aspen dominates northeast, 25-50% stocked, with a lot of blackberry. Red maple associated with quaking aspen in northeast. Narrow center of stand holds moisture and bulrush. West edge is generally damp. Trace residual red oak and yellow birch. Trace ironwood in canopy. Rare beech, cherry in subcanopy. Heavy browsing pressure resulting in subcanopy "shrubs". southern quarter of stand is a north-facing hillside, very heavily browsed, dominated by pin cherry and a little bit of aspen.</p>			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Bigtooth Aspen	25	Sapling	1		Blackberry/Raspberry	Full		< 5 feet	Tall Shrub	
Quaking Aspen	48	Sapling	1	3	Bulrush	Trace		Unspecified	Non-Wood	
Red Oak	2	Sapling	1		Bracken Fern	Low		Unspecified	Non-Wood	
Red Maple	5	Sapling	1		Balsam Fir	Trace		Variable	Sapling	
Pin Cherry	20	Sapling	1	3	Red Oak	Trace		< 5 feet	Tall Shrub	
					Red Maple	Trace		< 5 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
<b>58</b>	4130 - Aspen	Sapling Well	23.8	11	Immature	N/A	Trace beech, black cherry, balsam fir, and white oak in canopy. Rare rubus, red oak, red pine, white spruce, and jack pine in subcanopy. Pretty sparse subcanopy at this stage. Couple steep unharvested hillsides.																																																														
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<b>60</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.1	100	81-110	N/A	Trace hybrid oak, white spruce, and larch in the canopy. Rare black spruce in the subcanopy. Trace leatherleaf on the extreme northeast edge. Southeast leg is densely populated hemlock and white pine with red maple and balsam fir mixed in. Scattered legacy white pine. Portions of this stand were involved in a species removal resulting in slow growing pole aspen in trace amounts. Prominent drainage runs generally east to west roughly a third of the way from the north end of the stand.																																																														
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<b>61</b>	6120 - Lowland Cedar	Sawtimber Well	56.2	96	81-110	N/A	<p>Basal areas vary greatly from north to south. North is much more open, quaking aspen dominated with dead ash, transitioning to jackstrawed blowdown with an increase in cedar, eventually becoming cedar dominated with quaking aspen, hemlock, white spruce, and some red maple.</p> <p>Trace basswood and sugar maple in north. Trace yellow birch, balsam poplar, black cherry in the canopy. Rare high bush cranberry (in north only), black cherry, yellow birch, hazelnut, sugar maple, red oak, elm, honeysuckle, quaking aspen, virgin's bower, hemlock, black spruce, white cedar, dwarf scouring rush, and chokeberry in subcanopy.</p> <p>Stream against the road in the north. Stream meanders throughout this stand, flowing northward: a defined 2-3' wide channel with a sandy bottom. Areas where the stream fans out into intermittent side channels, but there's one defined stream throughout. Very saturated stand with sensitive soils.</p> <p>Couple pockets of very dense, jackstrawed blowdown. A very popular deer corridor.</p> <p>Some hemlock mortality in about a quarter of the way up the stand, west side.</p>																																																																																																												
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<b>62</b>	4130 - Aspen	Sapling Medium	18.3	2	Immature	N/A	<p>Trace balsam fir and red oak in the canopy. Heavy browsing pressure resulting in 100 stem stump sprout "shrubs". Rare hazelnut and white oak in the subcanopy. Lot of coarse woody debris, which is great. Thistle, mullein, and spotted knapweed present. Large landing in center of stand is having difficulties regenerating. Long term retention contains a drainage that runs through the harvested portion of the stand; trace yellow birch. Some of the wetter spots contain bulrush. Southeast is dominated by bigtooth, while the rest of the stand is generally quaking aspen. Some dense cherry. Southeast edge is browsed to nothing; raspberry dominated.</p> <p>Stand data does not account for retention islands. South is dominated by mature aspen with maple, beech, and fir.</p> <p>Part of Spartan Aspen and Hardwood, 52-123-16. Parent stand was 40% BTA, 20% BF, 15% RM, 10% QA, 5% SM, 5% BW, 5% BE according to previous inventory. Subcanopy consisted of BF, RM, and BE.</p>																																																																																																												
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<b>63</b>	310 - Herbaceous Openland	Nonstocked	4.9		Unspecified	Managed Opening	<p>Maintained opening. Deer and coyote tracks. Few red oak in east half outside of forested bands.</p> <p>West strip of trees: log/pole dominated by red maple, black cherry, red oak, yellow birch, paper birch, quaking aspen, ironwood, pin cherry, basswood. Subcanopy contains white ash (trace), beech (high), ironwood (low), striped maple (trace), balsam fir (trace), honeysuckle (trace), maple leaved viburnum (trace), sugar maple (trace), and bracken fern (trace).</p> <p>East strip of trees: sap/pole dominated canopy with red oak, black sugar maple, red maple, pin cherry, serviceberry, paper birch, bigtooth aspen. Subcanopy consists of balsam fir (low), ironwood (trace), bracken fern (low), honeysuckle (trace), striped maple (medium), beech (low), white ash (trace), and sugar maple (medium).</p>																																																																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>64</b>	4119 - Mixed Northern Hardwoods	Sawtimber Medium	8.5	92	51-80	N/A	Stand data is deceptive. Four distinct regions to this stand. South quarter strip is rather open grown, multi-stemmed red maple with red pine volunteers and full bracken fern on a south-facing hillside (plateauing at the top). North 2/3rds of the south square is dominated by red maple with trace beech and black cherry (and less than 1% white pine, red pine, balsam fir, and sugar maple). The northeast leg is separated from the main body by a very steep north-facing slope and is itself situated on a generally east-facing slope. The leg is dominated by red and white pine, balsam fir, black cherry, red oak, and red maple pole-timber. Extreme north tip is dominated by pole/sap red oak.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		2	Pole/Sap/Log	6		Black Cherry		Trace	Variable	Sapling	
Black Cherry		8	Log	10		Red Pine		Trace	Variable	Sapling	
Balsam Fir		5	Pole/Sapling	7		Balsam Fir		Low	Variable	Sapling	
Red Maple		62	Log/Pole	10	92	Bracken Fern		High	Unspecified	Non-Wood	
Beech		1	Log/Pole	12		Beech		Low	Variable	Sapling	
Red Pine		2	Pole	6							
Red Oak		20	Pole/Sap/Log	8							
<b>65</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	7.5	93	81-110	N/A		A rather low quality hardwood stand, mostly multi-stemmed, affected by BBD. Trace ironwood and black cherry in canopy. Increase in dead ash in southeast. Couple nice oak, but mostly lower quality. Oak occurs in in the east quarter, and a little along the south edge. Stand contains a ridge running east to west, pretty much splitting it 50/50 between north and south aspects. (East and west edges of stand slope off to east and west, respectively.)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Maple		2	Log/Pole	12		Beech			Full	Variable	Sapling
Sugar Maple		56	Log/Pole	12	93	Ironwood			Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak		2	Log/Pole/Sap	12		Balsam Fir			Trace	Variable	Sapling
Beech		25	Log/Pole/XLog	14		White Ash			Trace	< 5 feet	Sapling
Bigtooth Aspen		5	Log/XLog	14		Striped Maple			Trace	< 5 feet	Sapling
Basswood		10	Log/Pole/XLog	12		Sugar Maple			Low	< 5 feet	Seeding
<b>66</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	17.7	96	81-110	N/A	Trace yellow birch, ironwood, bigtooth aspen, and quaking aspen in canopy. Decent hardwood in northeast, dominated by sugar maple and basswood, transitioning to log sugar maple/red maple in southeast, then mediocre sugar maple and much higher densities of red maple with black cherry - heavy to pole - in the southwest. Low balsam fir density in the north; trace elsewhere. Southwest is a little plateau with a defined hillside, generally north/northeast aspect. Little aspen clone in south, up against private. Corner present.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Maple		30	Log/Pole	10	96	Sugar Maple		Trace	< 5 feet	Seeding	
Basswood		23	Log/Pole/XLog	14		Sugar Maple		Low	>20 feet	Sapling	
Black Cherry		2	Log/Pole	10		Beech		High	Variable	Sapling	
Beech		5	Log/XLog	16		Ironwood		Medium	Variable	Sapling	
Sugar Maple		40	Log/Pole	12	96	Striped Maple		Low	Variable	Sapling	
						Balsam Fir		Low	Variable	Sapling	
<b>67</b>	4110 - Sugar Maple Association	Sawtimber Well	6.8	84	81-110	N/A		Thinning complete 11/2020, Stafford for President, 52-124-16. Trace bigtooth aspen, paper birch, red oak, and quaking aspen in canopy. Rare maple leaved viburnum and white pine in subcanopy. Main body of stand was recently thinned; south edge and southwest leg occupy and steep hillside dominated by Xlog maple and basswood. Mullein and thistle in thinned portion of stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Ironwood		3	Pole/Sapling	6		Sugar Maple			Trace	< 5 feet	Seeding
Basswood		40	Log/Pole/XLog	14	84	Beech			Medium	Variable	Sapling
Beech		2	XLog/Log	18		Blackberry/Raspberry			Medium	< 5 feet	Tall Shrub
Sugar Maple		55	Log/XLog/Pole	12	84	Balsam Fir			Trace	Variable	Sapling
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<b>68</b>	42110 - Planted Red Pine	Sawtimber Well	15.4	64	111-140	N/A	Thinning complete 06/2017 Stafford for President, 52-124-16. Trace red maple and bigtooth aspen in canopy. Rare striped maple, red oak, hazelnut, and white oak in subcanopy. Greater subcanopy diversity in north half than south. Nice looking red pine stand.																																																																												
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<b>69</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	17.7	90	111-140	N/A	Generally a very wet stand except in the far northeast. Trace BAM, white oak in canopy. Rare hybrid oak, paper birch, serviceberry in subcanopy. Scattered relic red and white pine. Paper birch associated with hemlock. Pine presence diminishes in southwest, becoming fir/cedar/hemlock dominated with quaking aspen and paper birch. Drainages in northeast where the stand is a little more uplandy. Some areas of dense blow down along north edge.																																																																												
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<b>70</b>	330 - Low-Density Trees	Nonstocked	1.2		Unspecified	No	Becoming forested. South edge is the only area that's somewhat open.																																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>71</b>	4110 - Sugar Maple Association	Sawtimber Well	20.0	96	81-110	N/A	Trace ironwood in canopy. Rare rubus, gooseberry in subcanopy. Significant white ash coarse woody debris. Beech has been declining in wake of BBD, but still lingering in canopy (reduced from 15% in 2014 to 4% in 2024). Dense beech subcanopy, some advanced striped maple, and a few white ash in gaps created by ash mortality. Advanced sugar maple saplings (2-6" dbh) in spots but not resulting from recent management. Ash and beech combined probably accounted for close to 20% of the original canopy.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		64	Log/Pole	10	96	Striped Maple		Low	Variable	Sapling	
Red Maple		2	Log/XLog	14		Sugar Maple		Low	>20 feet	Sapling	
Basswood		30	Log/Pole/XLog	16	96	Beech		Full	Variable	Sapling	
Beech		4	XLog/Log/Pole	18		Ironwood		Low	Variable	Tall Shrub	
						Sugar Maple		Low	< 5 feet	Seeding	
						White Ash		Low	Variable	Sapling	
<b>72</b>	4130 - Aspen	Sawtimber Well	6.4	75	81-110	N/A	Hilly with drainage. Quaking aspen dominated except for southeast hilltop with bigtooth aspen. No defined banks, but flowing water, going east and going underground as it hits edge of stand 59/hillside. Grassy opening in the east. Balsam poplar in wettest areas. Rare white pine in subcanopy.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		10	Log	14		Sugar Maple		Low	Variable	Sapling	
Sugar Maple		2	Pole/Log	8		White Ash		Low	Variable	Sapling	
Black Cherry		5	Log/Pole	10		Serviceberry (Juneberry)		Medium	Variable	Sapling	
Quaking Aspen		75	Log/Pole	14	75	Black Cherry		Trace	Variable	Sapling	
Serviceberry (Juneberry)		3	Sapling/Pole	4		Beech		Medium	Variable	Sapling	
Balsam Poplar		5	Log/Pole	14		Ironwood		Medium	Variable	Sapling	
						Balsam Fir		Trace	Variable	Sapling	
<b>73</b>	4130 - Aspen	Sawtimber Well	5.3	55	111-140	N/A	Advanced hardwood subcanopy is largely suppressed into the midcanopy. More conifer (balsam fir in particular, but white pine, too) in north quarter of stand. Larger bigtooth diameters in north, too. Trace white ash, ironwood, red pine in canopy. Observed on hawthorn on edge of an opening.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		3	Pole/Sap/Log	8		Sugar Maple		Low	Variable	Sapling	
Balsam Fir		1	Pole	6		Balsam Fir		Low	Variable	Sapling	
Red Maple		9	Pole/Log/Sap	7		Serviceberry (Juneberry)		Trace	Variable	Sapling	
Beech		1	Log/Pole	10		White Pine		Trace	Variable	Sapling	
Bigtooth Aspen		79	Log/Pole	10	55	Striped Maple		Low	Variable	Sapling	
Sugar Maple		2	Pole/Sap/Log	6		Red Maple		Low	Variable	Sapling	
Quaking Aspen		5	Pole/Log	9		Bracken Fern		Medium	Unspecified	Non-Wood	
						Beech		Low	Variable	Sapling	
						Ironwood		Low	Variable	Sapling	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>74</b>	4130 - Aspen	Poletimber Well	11.8	42	81-110	N/A	Trace red pine, white pine, sugar maple, and ironwood in canopy. Rare ironwood, witch hazel, white oak, and juniper in subcanopy. Couple of sap/pole hardwood dominated pockets with black cherry, serviceberry, sugar maple, and ironwood. Trace serviceberry in canopy. Some decent slopes in southwest. Couple of understocked non-forested openings throughout the stand. 90% canopy closure (100% within forested areas, approximately 10% of stand is non-forested). One legacy red pine on south edge.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		3	Pole/Sapling	6		Bracken Fern		Low	Unspecified	Non-Wood	
Bigtooth Aspen		87	Pole/Sap/Log	7	42	Black Cherry		Low	Variable	Sapling	
Black Cherry		1	Pole/Sapling	6		Red Oak		Trace	Variable	Sapling	
Balsam Fir		5	Pole/Log	8		Red Pine		Trace	Variable	Sapling	
Red Oak		1	Pole/Sapling	6		Serviceberry (Juneberry)		Low	Variable	Sapling	
Quaking Aspen		3	Pole/Sapling	7		Balsam Fir		Medium	Variable	Sapling	
						Beech		Low	Variable	Sapling	
						Red Maple		Trace	Variable	Sapling	
						White Pine		Trace	Variable	Sapling	
<b>75</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	8.6	47	51-80	N/A		This stand has historically been a non-forested opening, but it is definitely forested with various age and size classes. Very difficult to summarize the diversity of this stand. Approximately 2% of canopy is Xlog sugar maple. South half still has a non-forested feel to it, but it's still 50% forested. Sumac in southeast; old orchard on north edge of south half. Northwest portion of southern portion is a steepish hillside dominated by sap/pole hardwood with scattered sugar maple. Portion north of drainage has more aspen. Southeast: very open, pine/cherry/sugar maple dominated; grassy.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Sugar Maple		26	Pole/Sap/Log	8		Autumn Olive			Trace	5 - 10 feet	Tall Shrub
White Pine		1	Log	10		Red Pine			Low	Variable	Sapling
Serviceberry (Juneberry)		15	Sapling/Pole	4		White Ash			Trace	< 5 feet	Sapling
Quaking Aspen		2	Log/Pole	16		Scotch Pine			Trace	Variable	Sapling
Black Cherry		25	Pole/Sap/Log	7		Juniper			Low	5 - 10 feet	Tall Shrub
Red Pine		30	Pole/Sap/Log	7	47	Sugar Maple			Medium	Variable	Sapling
Bigtooth Aspen		1	Log/Pole	10		Apple (spp.)			Trace	Variable	Sapling
						Bracken Fern			Low	Unspecified	Non-Wood
						Serviceberry (Juneberry)			Low	Variable	Sapling
<b>76</b>	42110 - Planted Red Pine	Sawtimber Well	10.5	64	111-140	N/A	Thinning complete 06-2017, Stafford for President, 52-124-16. Trace sugar maple, red maple, black cherry, and bigtooth aspen in canopy, <2% total. Trace white pine in northwest and rare white pine saps in the vicinity.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Pine		100	Log/Pole	12	64	Red Oak		Low	Variable	Sapling	
						Bracken Fern		Medium	Unspecified	Non-Wood	
						Balsam Fir		Medium	Variable	Sapling	
						Red Pine		Trace	< 5 feet	Sapling	
						Black Cherry		Low	Variable	Sapling	
						Wintergreen		Trace	< 5 feet	Tall Shrub	
						Beech		Medium	Variable	Sapling	
						Red Maple		Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
<b>77</b>	4119 - Mixed Northern Hardwoods	Sapling Well	21.2	39	1-50	N/A	Trace basswood, LARCH, beech in canopy. Rare ironwood, striped maple, and maple leaved viburnum in subcanopy. Low end of 75% canopy closure. Residual red oak and balsam fir. Old furrows in west. The northern-most two acres are an inclusion of log hardwood dominated by red maple (multi-stemmed log/pole) 97% and beech (log) 3%. Areas dominated by black cherry and serviceberry and lower quality.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Bigtooth Aspen		5	Log/Pole	10		Serviceberry (Juneberry)		Low	Variable	Sapling		
Quaking Aspen		5	Pole/Sapling	5		White Pine		Trace	Variable	Sapling		
Serviceberry (Juneberry)		15	Sapling/Pole	3		Bracken Fern		Low	< 5 feet	Non-Wood		
Balsam Fir		5	Pole/Log/Sap	7		Black Cherry		Medium	Variable	Sapling		
Red Maple		26	Sapling/Pole	4	39	Balsam Fir		Low	Variable	Sapling		
Ironwood		1	Sapling	4		Red Pine		Trace	Variable	Sapling		
Red Oak		3	Pole/Sap/Log	7		Beech		Trace	Variable	Sapling		
Sugar Maple		12	Sapling/Pole	4								
Pin Cherry		2	Pole/Sapling	6								
Black Cherry		26	Sapling/Pole	4								
<b>78</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.7	92	81-110	N/A		Decent hillside into adjacent swamp. Some lower quality multi-stemmed red maple. Center of stand is pretty open.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Quaking Aspen		2	Log/Pole	10		Beech			Low	Variable	Sapling	
Balsam Fir		2	Log/Pole	10		Ironwood			Low	Variable	Sapling	
Basswood		2	Log/XLog	16		Black Cherry			Low	Variable	Sapling	
Sugar Maple		14	Pole/Log	8		Red Pine			Trace	Variable	Sapling	
Red Oak		1	Log	14		Balsam Fir			Low	Variable	Sapling	
Red Maple		75	Log/Pole	12	92							
Beech		2	Log/Pole	12								
Bigtooth Aspen		2	Log/Pole	15								
<b>79</b>	4111 - S.Maple, Hard Mast Association	Poletimber Well	2.0	97	81-110	N/A	Subcanopy is either >20 or <5, not much in between. Trace paper birch in canopy. Witness trees present in southwest corner. Xlog sugar maple, basswood, aspen, beech along south edge. Serviceberry with black cherry and ironwood confined to northeast. Small pocket of pole bta in northeast; saplings on edge.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Sugar Maple		70	Pole/Log/XLog	8	97	Ironwood		Low	Variable	Sapling		
Basswood		1	Log/Pole	12		Sugar Maple		Low	Variable	Sapling		
Beech		12	Pole/Log/XLog	8		Basswood		Trace	< 5 feet	Sapling		
Bigtooth Aspen		10	XLog/Log/Pole	20		Balsam Fir		Trace	Variable	Sapling		
Ironwood		5	Pole/Sapling	6		Beech		High	Variable	Sapling		
Black Cherry		1	Pole	6								
Serviceberry (Juneberry)		1	Pole/Sapling	6								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>80</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	3.6	81	111-140	N/A	Extremely simplified canopy. Rare beech <10', rare hemlock and balsam fir seedlings <1'. Trace paper birch and white oak in canopy. Some suppressed hemlock sap/poles >20 in the midcanopy. Northeast edge transitions into very soggy ground. Center of stand has a higher mix of aspen and maple with hemlock.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Hemlock	79	Log/Pole/XLog	10	81	Balsam Fir	Trace		10 - 20 feet	Sapling
Red Oak	1	Log	10						
Red Maple	10	Pole/Sap/Log	8						
White Pine	5	Log/XLog	14						
Quaking Aspen	3	Log	14	75					
Balsam Fir	2	Pole/Sapling	7						
<b>81</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	26.0	107	111-140	N/A	Trace paper birch and hemlock in canopy. Few relic red pine, especially in the southeast. One small clump of huckleberry. Couple charred stumps and burn scars on red/white pine. Far northwest triangle is aspen dominated with scattered pine, whereas the rest of the stand is pine dominated with clumpy aspen. Little bit of flooding from beaver activity nearby resulted in scouring of the soil and some pine mortality in a small pocket near the snowmobile trail in the south.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	52	XLog/Log/Pole	18	107	Hazelnut (Beaked)	Trace		5 - 10 feet	Tall Shrub
Red Pine	10	Log/Pole/XLog	14	94	Bracken Fern	Low		Unspecified	Non-Wood
Black/Red (Hybrid) Oak	15	Log/Pole/XLog	14		Beech	High		Variable	Sapling
Quaking Aspen	5	Log/Pole	12		Black/Red (Hybrid) Oak	Low		Variable	Sapling
Bigtooth Aspen	10	Log/Pole	10	73	Red Maple	Low		Variable	Sapling
Red Maple	5	Pole/Log	8		White Pine	Low		Variable	Sapling
White Oak	3	Log/Pole	12		Common Lowbush Blueberry	Medium		< 5 feet	Tall Shrub
					Balsam Fir	Trace		Variable	Sapling
					White Oak	Trace		Variable	Sapling
					Black Cherry	Trace		Variable	Sapling
					Hemlock	Trace		>20 feet	Log
<b>82</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	3.8	65	81-110	N/A	Trace hybrid oak, larch, and hemlock in canopy. Rare jack pine in far west transitioning into adjacent stand 3. Rare beech and chokeberry (chokeberry associated with wettest areas) in subcanopy. North central portion of stand is an upland ridge dominated by bigtooth aspen. The edges are particularly wet. South tip transitions into a treed bog, similar to stand 3, fully stocked with leatherleaf.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	13	XLog/Log/Pole	22		Leatherleaf	Low		< 5 feet	Tall Shrub
Paper Birch	2	Pole/Sap/Log	7		Hemlock	Trace		< 5 feet	Seeding
Quaking Aspen	2	Log/Pole	10		Michigan Holly	Trace		5 - 10 feet	Tall Shrub
Red Maple	40	Pole/Log/Sap	8	65	White Pine	Low		Variable	Sapling
Bigtooth Aspen	15	Log/Pole	10		Tamarack	Trace		Variable	Sapling
Balsam Fir	25	Pole/Sap/Log	6		Balsam Fir	Low		Variable	Sapling
<b>83</b>	4133 - Aspen, Mixed Pine	Poletimber Well	2.1	65	51-80	N/A	Trace quaking aspen and red pine in canopy. Rare white and hybrid oak in subcanopy. High to full white pine subcanopy in the east two-thirds of the stand, becoming low to trace in the west third, replaced by medium stocking of balsam fir (balsam fir is trace in the east two-thirds). Stand is a crescent shaped upland ridge with damp edges, becoming flat in the west third.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Hemlock	2	Log/XLog	14		Balsam Fir	Low		Variable	Sapling
Red Maple	2	Pole/Log	8		White Pine	High		Variable	Sapling
White Pine	24	XLog/Log/Pole	18	100					
Balsam Fir	2	Pole/Sap/Log	7						
Bigtooth Aspen	70	Pole/Sapling	6	65					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>84</b>	6127 - Lowland Pine	Sawtimber Medium	2.0	150	1-50	N/A	Treed bog, partially inundated but all saturated. One red pine, trace balsam fir in canopy. Rare tag alder in subcanopy. Southeast is aspen/birch/red maple pole dominated, but the rest of the stand is white pine dominated.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	84	XLog/Log	20	150	Serviceberry (Juneberry)	Trace	5 - 10 feet	Sapling	
Red Maple	5	Pole/Sap/Log	6		White Pine	Low	Variable	Sapling	
Paper Birch	5	Pole/Sap/Log	5		Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub	
Jack Pine	1	Log/Pole	12		Hemlock	Trace	< 5 feet	Seeding	
Quaking Aspen	2	Log/Pole	10		Michigan Holly	Trace	5 - 10 feet	Tall Shrub	
Tamarack	1	Pole/Log/Sap	6		Tamarack	Trace	Variable	Sapling	
Balsam Poplar	1	Log	12		Balsam Fir	Trace	Variable	Sapling	
Hemlock	1	Pole/Log/Sap	8		Leatherleaf	High	< 5 feet	Tall Shrub	
<b>85</b>	122 - Road/Parking Lot	Nonstocked	1.8		Unspecified	No	Gularski Road.		
<b>86</b>	4133 - Aspen, Mixed Pine	Poletimber Well	6.3	58	81-110	N/A	Trace white spruce, quaking aspen, and paper birch in canopy. Rare black cherry in subcanopy. West of Gularski has trace quaking aspen, l/xlog white pine, and bta with much higher density of oak regeneration. Increase in black cherry and serviceberry saps, too. Lowland edge effect in far northeast along swamp edge: trace white and black spruce, cedar, and quaking aspen present.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	18	Log/Pole/XLog	14		White Spruce	Trace	Variable	Sapling	
Bigtooth Aspen	75	Pole/Log/Sap	9	58	Red Maple	Medium	>20 feet	Sapling	
Red Maple	2	Pole/Sapling	6		White Pine	Medium	Variable	Sapling	
White Pine	5	Log/Pole/XLog	16		Beech	Trace	Variable	Sapling	
					Balsam Fir	Low	Variable	Sapling	
					Bracken Fern	High	Unspecified	Non-Wood	
					Black/Red (Hybrid) Oak	Low	Variable	Sapling	
<b>87</b>	6112 - Lowland Aspen	Sawtimber Well	11.5	82	51-80	N/A	A transitional stand with a lot of variability in wetness and species composition (red maple and quaking aspen are fairly consistent, however). The main body of the stand has a gentle west/northwest slope (2-4%). A swale and intermittent stream bisect the main body of the stand from the northwest leg, which itself is a little knob and ridge about 20' above the lowland with wet edges. Portions of the stand are a mess of dead, down wood, balsam fir dominated, particularly in the north. Beaver activity in the north, also. Trace yellow birch, hemlock, basswood, black cherry, and sugar maple in the canopy. Rare sugar maple, alder leafed buckthorn, hazelnut, tag alder, white ash, white spruce, and hybrid oak in the subcanopy. Excited about mountain maple being present in trace amounts, primarily in the northwest swale.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Log/Pole	10		Black Cherry	Trace	Variable	Sapling	
Bigtooth Aspen	2	XLog/Log	20		Paper Birch	Trace	>20 feet	Sapling	
Northern White Cedar	7	Log/Pole/XLog	12		Beech	Low	Variable	Sapling	
Balsam Poplar	10	Log/XLog	16		Quaking Aspen	Trace	Variable	Sapling	
Balsam Fir	10	Pole/Log/Sap	7		Striped Maple	Low	Variable	Sapling	
Quaking Aspen	35	Log/XLog/Pole	16	82	Balsam Fir	Medium	Variable	Sapling	
Red Maple	35	Log/Pole/XLog	10		Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub	
					Black Ash	Low	Variable	Sapling	
					Red Maple	Trace	Variable	Sapling	
					Mountain Maple	Trace	Variable	Sapling	
					Balsam Poplar	Trace	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																												
<b>88</b>	4311 - Pine, Aspen Mix	Sawtimber Well	8.4	59	81-110	N/A	Rare paper birch in canopy. Rare serviceberry, beech, red pine in subcanopy. Deciduous removal in 1965. Stand could be merged with adjacent stand 9 for similar composition, except there is more canopy white pine present in this stand. Fairly simple subcanopy. Trace white oak in the south tip.																																																																												
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<b>89</b>	622 - Lowland Shrub	Nonstocked	0.5		Unspecified	No	Currently inundated. High occurrence of moss suggests that the water level drops in dry summer months, but soils remain saturated. Consider classification as a muskeg.																																																																												
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<b>90</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	3.8	82	81-110	N/A	Trace sugar maple (only observed one), black cherry, paper birch, and basswood in canopy. Rare white oak and basswood in subcanopy. Observed one hazelnut in the far northwest. A lot of dead black ash; significant coarse woody debris throughout stand (ash and fir, in particular, but some cedar and aspen, too); edge tip-ups resulting from wind exposure following adjacent clearcut. Heavy deer use. Low end of 75% canopy closure. Flowing water in south tip, draining into stand 55.																																																																												
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<b>91</b>	6229 - Mixed lowland shrub	Nonstocked	1.3	0	Unspecified	No	Small portion of adjacent stand that had been flooded, but is currently mostly dry. Dead quaking aspen saplings evenly distributed. High distribution of bugleweed/water horehound (Lycopus americanus) also.																																																																												
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<b>92</b>	330 - Low-Density Trees	Nonstocked	1.4	0	Unspecified	No	Nearly full mortality resulting from previous flooding (currently damp but not inundated). Rare meadowsweet and bugleweed on north edge adjacent to stand 91, trace scattered balsam fir in south.																																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
93	42290 - Natural Mixed Pine	Sawtimber Well	6.0	113	141-170	N/A	Trace red maple, bigtooth and quaking aspen, and jack pine in canopy. Rare white oak in subcanopy. Couple live jack pine in northwest. Small pocket of sheep laurel with high water table and decline/mortality in red pine from soil saturation. Increase in red oak along south edge. Damp corridor running through the southern quarter of the stand. Couple of hemlock along the west edge, half way down.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	55	Log/XLog/Pole	16	113	Red Maple	Low		>20 feet	Sapling
White Pine	40	XLog/Log/Pole	18		Wintergreen	Low		< 5 feet	Tall Shrub
Black/Red (Hybrid) Oak	5	Log/XLog/Pole	16		Balsam Fir	Low		Variable	Sapling
					Huckleberry	Trace		< 5 feet	Tall Shrub
					White Pine	High		Variable	Sapling
					Black/Red (Hybrid) Oak	Trace		Variable	Sapling
					Common Lowbush Blueberry	Medium		< 5 feet	Tall Shrub
					Sheep Laurel	Trace		< 5 feet	Tall Shrub
					Northern White Cedar	Trace		>20 feet	Pole
					Beech	Trace		Variable	Sapling
					Hemlock	Trace		>20 feet	Log
					Bracken Fern	Medium		Unspecified	Non-Wood
94	4130 - Aspen	Sawtimber Well	9.6	68	51-80	N/A	Rare white pine, balsam poplar in canopy. Trace green ash, honeysuckle, mountain maple, black ash, black current, and elm in subcanopy associated with north third of stand. Rare subcanopy sugar maple and alternate leafed dogwood throughout the stand. North third of stand is more of an aspen-transitioning-to-hardwood swamp with less basal area from deteriorating quaking aspen with red maple and balsam fir filling in. This area sees an increase in subcanopy diversity as compared to the rest of the stand, which is pretty solidly balsam fir and red maple with scattered black cherry and serviceberry. Southern two-thirds of the stand are quaking aspen dominated with a few red maple and balsam fir in the canopy, but they're mostly confined to the midcanopy. Much simpler subcanopy. West leg is cut off from the main body of the stand by a semi-defined drainage with flowing water.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15	Log/Pole	12		Balsam Fir	Medium		Variable	Sapling
Quaking Aspen	75	Log/Pole/XLog	12	68	White Pine	Trace		Variable	Sapling
Bigtooth Aspen	5	Log	14		Wintergreen	Trace		< 5 feet	Tall Shrub
Black Cherry	2	Log/Pole	10		Nannyberry	Trace		5 - 10 feet	Tall Shrub
Balsam Fir	3	Log/Pole	10		Serviceberry (Juneberry)	Trace		Variable	Sapling
					Black Cherry	Trace		5 - 10 feet	Sapling
					Hazelnut (Beaked)	Trace		5 - 10 feet	Tall Shrub
					Red Maple	Low		>20 feet	Pole
					Red Maple	Low		Variable	Sapling
95	330 - Low-Density Trees	Nonstocked	2.6	0	Unspecified	No	Deteriorated landing, failed regeneration. Portions are flooded from beaver activity. The west half is drier and heavier towards raspberry and bracken fern with scattered quaking aspen and pine. East half is pretty wet.		
Sub-Canopy Species	Density	Avg. Height	Size						
Serviceberry (Juneberry)	Trace	5 - 10 feet	Sapling						
Black Cherry	Low	Variable	Sapling						
Red Pine	Trace	Variable	Sapling						
Spotted Knapweed	High	Unspecified	Non-Wood						
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub						
Balsam Poplar	Trace	Variable	Sapling						
American Fly Honeysuckle	Trace	< 5 feet	Tall Shrub						
Tag Alder	Trace	5 - 10 feet	Tall Shrub						
Bracken Fern	Medium	Unspecified	Non-Wood						
Willow spp.	Trace	5 - 10 feet	Tall Shrub						
Quaking Aspen	Low	10 - 20 feet	Sapling						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
96	330 - Low-Density Trees	Nonstocked	0.8	0	Unspecified	No	Intersection of forest roads and trails. Might have been used as a small landing or equipment staging.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Red Maple	Trace	Variable	Sapling					
								Quaking Aspen	Low	Variable	Sapling					
								Red Pine	Low	Variable	Sapling					
								Bracken Fern	Medium	Unspecified	Non-Wood					
								Spotted Knapweed	Medium	Unspecified	Non-Wood					
Balsam Poplar	Trace	Variable	Sapling													
98	4134 - Aspen, Spruce/Fir	Sawtimber Well	6.5	73	81-110	N/A	Aspen and red maple. Would prefer this to type out as a MD opposed to A. Lot of coarse woody debris. Some beaver damage to aspen (old). Couple drainages and vernal pools within the stand. Dense balsam fir along east edge in spots in response to beaver eliminating deciduous species. Trace black cherry, white pine, red oak, and white oak in canopy.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Sugar Maple	2	Pole/Log	8		Sugar Maple	Trace	>20 feet	Sapling
								Quaking Aspen	26	Log/Pole	12	73	Beech	Low	Variable	Sapling
								Red Maple	28	Log/Pole	12	73	Red Maple	Trace	10 - 20 feet	Sapling
								Paper Birch	2	Log/Pole/XLog	10		Serviceberry (Juneberry)	Low	>20 feet	Sapling
								Balsam Fir	20	Log/Pole	10		Black Cherry	Trace	>20 feet	Pole
								Bigtooth Aspen	20	Log/Pole	14		Balsam Fir	Medium	Variable	Sapling
								Basswood	2	Log/Pole	14		Ironwood	Trace	Variable	Sapling
													Hemlock	Trace	>20 feet	Log
99	4319 - Mixed Upland Forest	Sawtimber Well	1.7	78	81-110	N/A	Trace hybrid oak in canopy. Damp east edge.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	30	Log/XLog/Pole	14	78	Common Lowbush Blueberry	Low	< 5 feet	Tall Shrub
								Balsam Fir	10	Log/Pole	10		Balsam Fir	Full	Variable	Sapling
								Paper Birch	15	Log/Pole	12		White Ash	Trace	Variable	Sapling
								Bigtooth Aspen	10	Log/Pole	12		Red Maple	Trace	Variable	Sapling
								Red Pine	5	Log/XLog	16		White Pine	Low	Variable	Sapling
								Quaking Aspen	15	Log/Pole	10		Wintergreen	Trace	< 5 feet	Tall Shrub
								Red Maple	15	Log/Pole	11					
100	4319 - Mixed Upland Forest	Poletimber Well	4.4	65	81-110	N/A	Trace white oak, paper birch, and hybrid oak in canopy. White oak mostly located in far west. White pine and hemlock are more consistently present in east half. A marginally dry stand with a lot of wet areas. Super simplified subcanopy with only a little variability on transitional edges and within very wet spots. Could go Up with Low or Low with Up.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Hemlock	5	Log/Pole	12		Wild Raisin	Trace	5 - 10 feet	Tall Shrub
								Red Maple	44	Pole/Log	8	65	Beech	Trace	< 5 feet	Sapling
								Bigtooth Aspen	4	Pole/Log/Sap	7		Balsam Fir	High	>20 feet	Sapling
								White Pine	5	Log/XLog/Pole	14					
								Quaking Aspen	2	Pole	6					
Balsam Fir	40	Pole/Sap/Log	7	50												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
101	6222 - Shrub-Carr	Nonstocked	3.0	0	Unspecified	No	Vernal pool complex. Main body of stand is cattail dominated, but not fully stocked; multiple clumps of michigan holly, willow, and ash/birch/elm/red maple saplings. Old dam beaver dam in south with drainage continuing south into wetland complex. Wet drainage from the north tip with log-sized bam outside of the stand. Satellite ponds are inundated pockets generally dominated (though not necessarily highly stocked) with michigan holly and, to a lesser extent, red osier dogwood and alder leaved buckthorn. Scattered saplings (though generally dead ash and/or elm). Yellow birch and basswood (and rare sugar maple) are on the perimeter of the vernal pools within the hardwood stand.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Willow spp.	Low	Variable	Tall Shrub
								Paper Birch	Trace	>20 feet	Sapling
								Black Ash	Low	Variable	Sapling
								Cattail spp.	Medium	Unspecified	Non-Wood
								Red Maple	Trace	Variable	Sapling
								American Elm	Trace	>20 feet	Sapling
								Alder Leaved Buckthorn	Low	< 5 feet	Tall Shrub
								Michigan Holly	Medium	5 - 10 feet	Tall Shrub
								Red Osier Dogwood	Low	< 5 feet	Tall Shrub
								Balsam Fir	Low	Variable	Sapling
Yellow Birch	Trace	>20 feet	Log								
102	6230 - Cattail	Nonstocked	1.1	0	Unspecified	No	East edge of stand ends where aspen fills in, but the drainage continues east. Seep originates from west beside the road and out of a very small hillside.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Scotch Pine	Trace	Variable	Sapling
								Balsam Fir	Trace	Variable	Sapling
								Red Osier Dogwood	Trace	< 5 feet	Tall Shrub
								Willow spp.	Medium	10 - 20 feet	Tall Shrub
								Cattail spp.	Full	Unspecified	Non-Wood
Balsam Poplar	Low	Variable	Sapling								
103	6233 - Wet Meadow	Nonstocked	0.5	0	Unspecified	No	The main body of this stand is dominated by bulrush with a couple small patches of cattail. Witherod more or less lines the perimeter of the stand, but is dense and mixed with holly, aspen, red maple, and paper birch in the southern extension of this stand. Hemlock is on the perimeter in small clumps. One lonely white pine in east end.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	Low	>20 feet	Sapling
								Wild Raisin	Medium	5 - 10 feet	Tall Shrub
								Witch Hazel	Trace	5 - 10 feet	Tall Shrub
								Paper Birch	Trace	>20 feet	Sapling
								Hemlock	Trace	>20 feet	Pole
								Bulrush	High	Unspecified	Non-Wood
								Michigan Holly	Low	5 - 10 feet	Tall Shrub
Cattail spp.	Low	Unspecified	Non-Wood								
Red Maple	Low	Variable	Sapling								





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**104** 6230 - Cattail Nonstocked 0.9 0 Unspecified No Cattail dominated seep draining southeast into stand 28. Dead pole/sap black ash in north, low amount.

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Full	Unspecified	Non-Wood
Balsam Fir	Low	Variable	Sapling
Red Osier Dogwood	Trace	< 5 feet	Tall Shrub
Black Ash	Trace	Variable	Sapling
Willow spp.	Low	10 - 20 feet	Tall Shrub
Yellow Birch	Trace	10 - 20 feet	Sapling
American Elm	Trace	>20 feet	Sapling
Balsam Poplar	Trace	Variable	Sapling

**105** 6223 - Inundated Shrub Swamp Nonstocked 0.9 0 Unspecified No Heavy wildlife (deer) usage. White pine and quaking aspen dot the edges and little finger in middle of the stand. New stand in 2023. Did not observe stumps, but surrounding stand was harvested in 1997, and this might have been cut over then inundated, converting to lowland shrub.

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Trace	< 5 feet	Tall Shrub
White Pine	Trace	>20 feet	Pole
Bulrush	Low	Unspecified	Non-Wood
Michigan Holly	High	5 - 10 feet	Tall Shrub
Quaking Aspen	Low	>20 feet	Pole

**106** 4112 - Maple, Beech, Cherry Association Sawtimber Medium 2.6 96 51-80 N/A Stand is dominated by wolfy, multi-stemmed red maple and black cherry with scattered pine. Sugar maple is sparse, but more consistent in far southeast tip. Trace bigtooth aspen and beech in canopy. Rare juniper in subcanopy, erect form, approx 20' tall.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	7	Log/Pole	12	96	Beech	Medium	Variable	Sapling
White Pine	1	Log/Pole	12		White Pine	Trace	Variable	Sapling
Red Pine	2	Pole	8		Ironwood	Trace	Variable	Sapling
Red Maple	55	Log/Pole	10	96	Bracken Fern	High	Unspecified	Non-Wood
Black Cherry	35	Log	12		Red Pine	Low	Variable	Sapling
					Red Maple	Medium	Variable	Sapling
					Balsam Fir	Medium	Variable	Sapling
					White Ash	Trace	Variable	Sapling
					Serviceberry (Juneberry)	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>107</b>	4139 - Aspen, Mixed Deciduous	Sapling Medium	16.6	4	Immature	N/A	
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Trace striped maple and oak saplings in canopy. Rare witch hazel in subcanopy in west. Trace residual balsam fir. Dense blueberries in areas of lowest stocking/heaviest browsing. Scattered white and red pine volunteers. Sale closed in 2021.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	2	Sapling	1		Beech	Trace	< 5 feet	Sapling
White Oak	5	Log/Pole	12		Red Oak	Trace	< 5 feet	Sapling
Bigtooth Aspen	48	Sapling	1	4	Bracken Fern	Medium	Unspecified	Non-Wood
Red Pine	2	Sapling	2		Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
Red Oak	1	Log	14		Red Pine	Trace	< 5 feet	Sapling
Red Maple	25	Sapling	1		White Pine	Low	< 5 feet	Sapling
White Pine	5	XLog/Log	20	78	White Oak	Low	< 5 feet	Sapling
Red Pine	2	Log	14		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
White Pine	5	Sapling	1					
Quaking Aspen	5	Sapling	1					