



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53018

Entry Year 2026

Acreage: 1,871

County: Cheboygan

Management Area: Presque Isle Lake and Till Plains

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**Stand Examiner:** Joyanne Mittig

### Legal Description:

T33N - R01W, Sections 24, 25, 36

### Identified Planning Goals:

Maintain current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

### Soil and topography:

Uplands are generally rolling to mostly level interspersed with lowland swamps and creek bottoms. Soils are predominantly variations of Cheboygan and Blue Lakes Sands in the uplands with Tawas Peat in the lowlands.

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

Solid state ownership.

### Unique Natural Features:

There are documented occurrences of Red-shouldered Hawk and wood turtle within this compartment.

### Archeological, Historical, and Cultural Features:

Archaeology sites are known to occur in this Compartment

### Special Management Designations or Considerations:

None.

### Watershed and Fisheries Considerations:

All swamps and creeks within the compartment eventually flow through McMasters Creek into the Black River which is a designated Trout stream.

### Wildlife Habitat Considerations:

A Wildlife Division representative will be available to participate in the formal compartment review.

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

No known potential exists for commercial metallic mineral production in this part of the state. No known active sand & gravel pits exist in the area. There may be some potential for sand & gravel within the compartment on the uplands, but commercial development involving use of the surface is not allowed. The compartment is outside the main Antrim Shale gas play. The Antrim Shale is relatively thin beneath the compartment and may have limited potential for gas production. The Silurian reef trend is a short distance to the south and east. Several past oil & gas wells were drilled in and around the compartment to test for Silurian reef reservoirs but all were dry holes. The nearest production, past or present, is just under two miles east. Potential for productive reef reservoirs beneath the compartment is considered low. State land in the compartment and surrounding area cannot be utilized for future drilling operations and all State-owned mineral rights are non-leasable, so production of any potential hydrocarbons from beneath the compartment cannot occur without committing mineral trespass. Any decisions on future mineral exploration and development within the compartment shall be consistent with the Concept of Management for the Pigeon River Country.

### Vehicle Access:

There is good access to most, if not all, of the compartment. Most of the roads, however, have been closed to wheeled motorized vehicles with virtually all of those closures still intact.

### Survey Needs:

None required.

### Recreational Facilities and Opportunities:

The primary recreational pursuits in this area are hunting and elk viewing.

**Fire Protection:**

Access is good in case of any fire suppression efforts, though the area is generally at low risk to any wildfire potential.

**Additional Compartment Information:**

Wet areas seem to have slightly expanded since the previous inventory; this is likely due to beaver activity in the area.

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

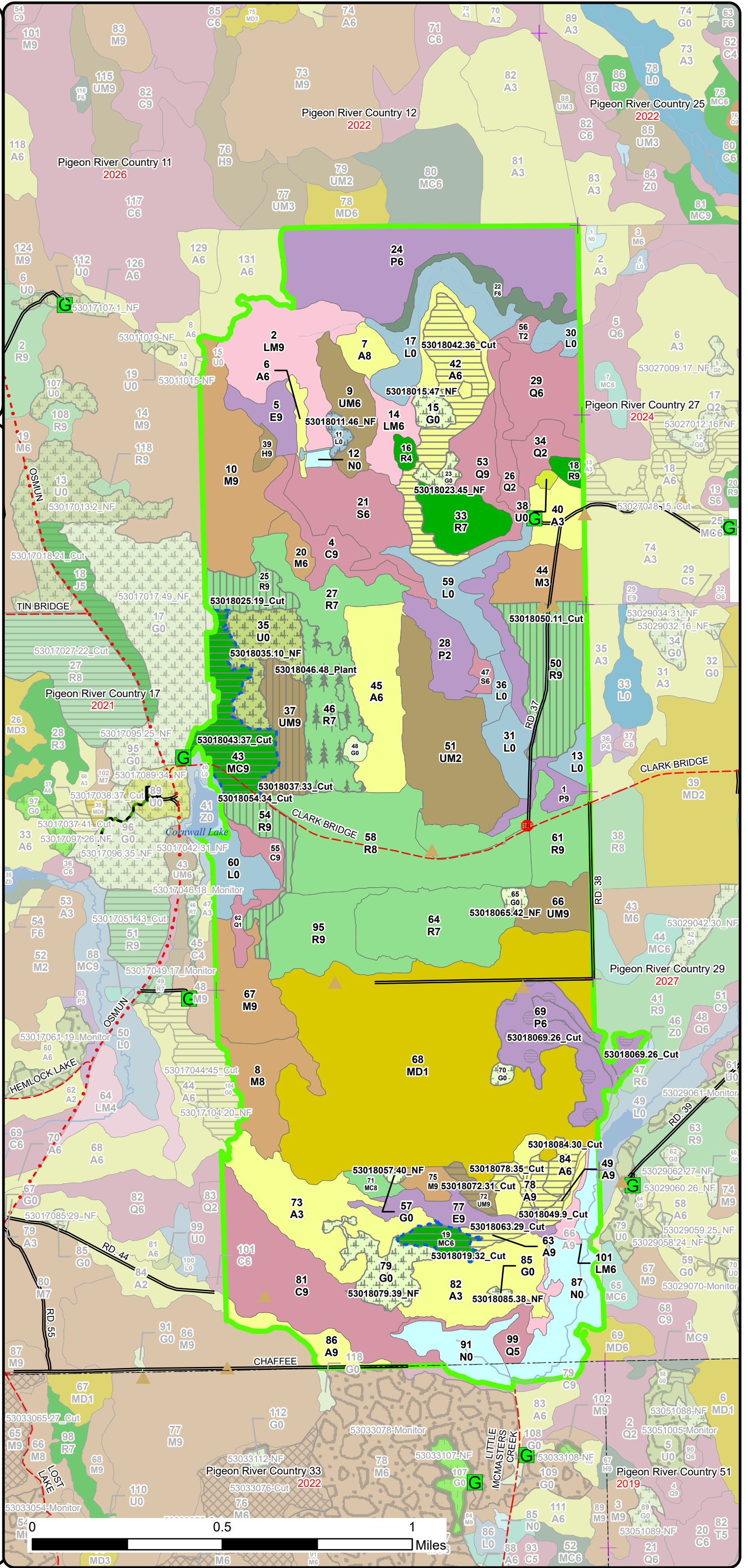
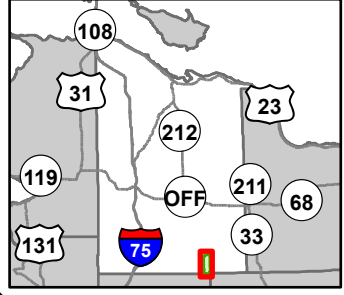
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

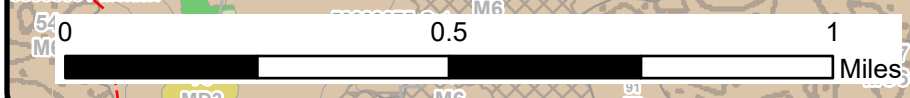
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 53018  
 T33N, R1W, Sec: 24, 25, 36  
 County: Cheboygan  
 Unit: Pigeon River Country  
 Mgmt Area: Presque Isle Lake and Till Plains  
 YOE: 2026  
 Acres: 1870.8 GIS Calculated  
 Examiner: Joyanne Mittig  
 Map Revised: 08/27/2024  
 Map Phase: Post Review



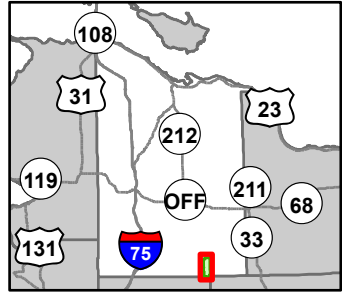
- Berms
- Gate
- Parking Lot
- Sign
- Remonumented Section Corners
- Designated Hiking Trails
- Designated Multi-Use Trails
- DNR - Secondary Forest Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Planting (Tree Species)
- Clearcut (w/Reserves)
- Patch/Strip Cut (Femelschlag)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



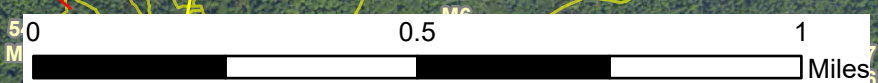
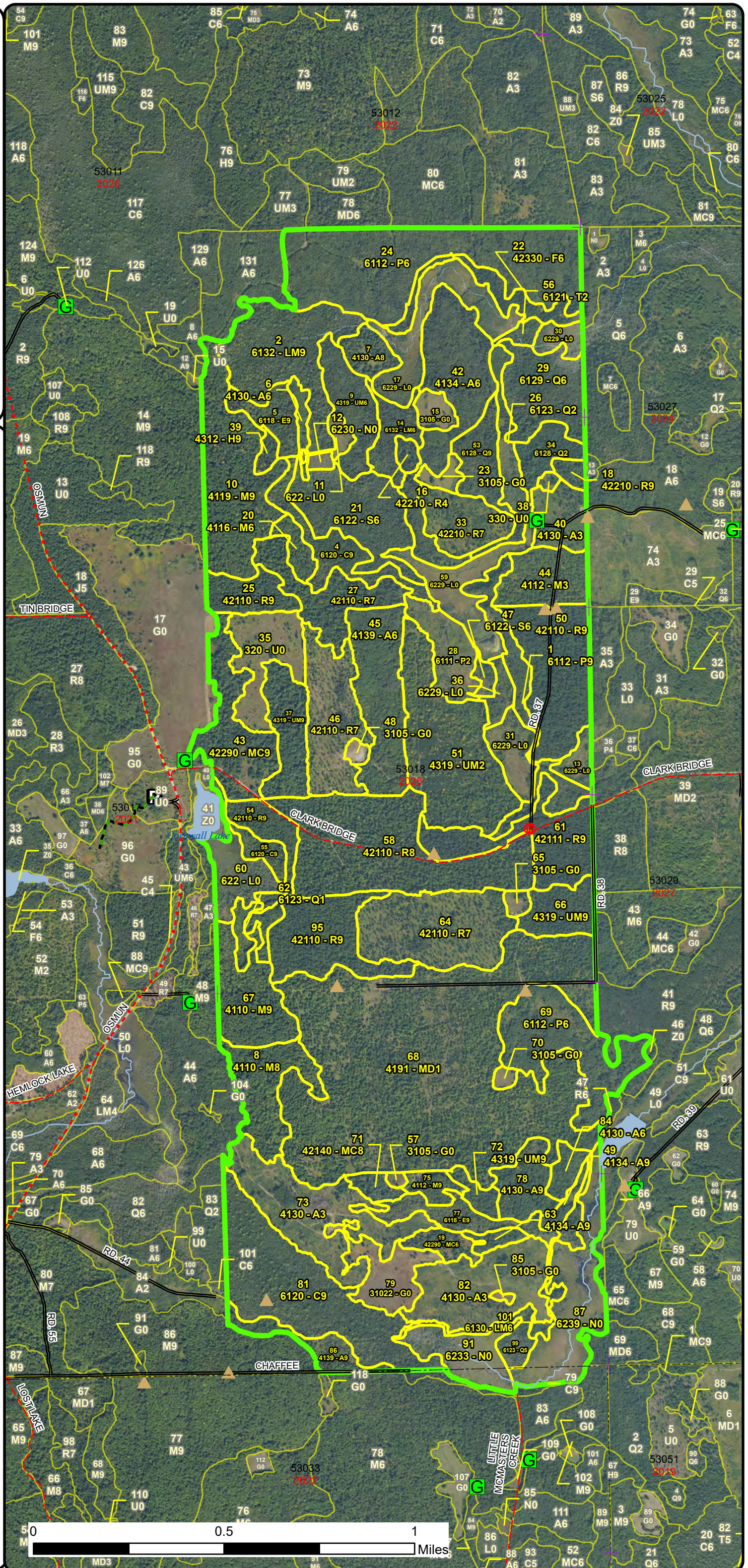


# Stand Boundary Map

Compartment: 53018  
 T33N, R1W, Sec: 24, 25, 36  
 County: Cheboygan  
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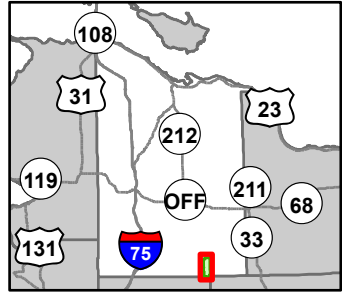
- Berms
  - Gate
  - Parking Lot
  - Sign
  - Remonumented Section Corners
  - Designated Hiking Trails
  - Designated Multi-Use Trails
  - DNR - Secondary Forest Road
  - County - Gravel Road
  - County - Dirt Road (Seasonal)
  - Intermittent Stream
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  - Compartment Boundary
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- State Forests



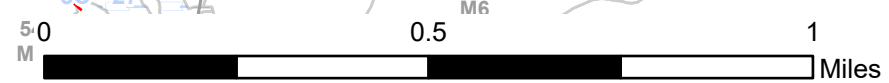
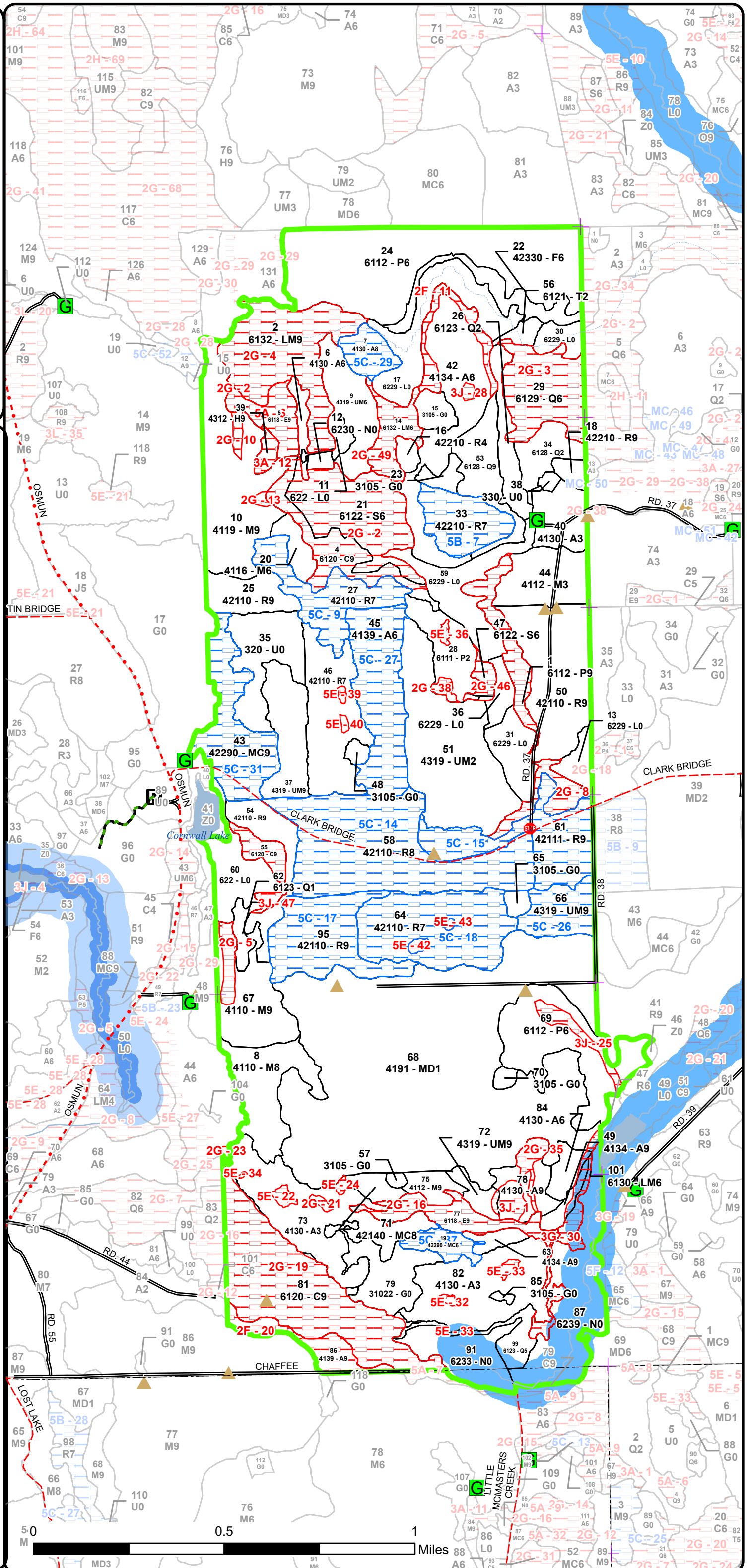


# Special Conservation Areas & Site Conditions Map

Compartment: 53018  
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 County: Cheboygan  
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- Berms
  - Gate
  - Parking Lot
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  - Designated Multi-Use Trails
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  - County - Gravel Road
  - County - Dirt Road (Seasonal)
  - Intermittent Stream
  - Lake/Pond
  - Perennial River
  - Lakes and Rivers
  - Compartment Boundary
  - Available w/ Constraints
  - Unavailable
- 5B: Maintain for regeneration purposes



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	103	0	0	44	4	55	16	21	0	0	0	0	0	0	0	0	0	243
Cedar	0	0	0	0	0	0	0	0	0	0	74	0	0	0	0	0	19	0	93
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Herbaceous Openland	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	18	0	0	87	43	23	0	0	0	0	0	0	0	0	0	0	0	170
Lowland Conifers	0	0	0	5	9	0	18	29	0	0	0	0	0	0	0	0	0	23	83
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	16	12	0	0	0	0	0	0	28
Lowland Mixed Forest	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	54	66
Lowland Shrub	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	40
Marsh	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Mixed Upland Deciduous	0	0	246	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	246
Natural Mixed Pines	0	0	0	0	7	33	0	0	0	0	0	0	0	0	0	0	0	0	40
Northern Hardwood	0	0	21	0	0	0	0	0	0	6	6	107	0	0	0	0	0	0	140
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	3	0	0	0	0	0	348	0	0	0	0	0	0	0	351
Tamarack	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	60	0	0	20	0	0	0	5	15	0	0	0	0	0	0	21	121
Upland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Upland Spruce/Fir	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
<b>Total</b>	<b>225</b>	<b>121</b>	<b>330</b>	<b>5</b>	<b>164</b>	<b>100</b>	<b>109</b>	<b>45</b>	<b>21</b>	<b>11</b>	<b>504</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>98</b>	<b>1870</b>



## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 156  
Harvests with Site Condition - 40  
Next Step Harvest - 0  
Habitat Cut - 37

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	57	0	0	0	0	0	0	0	0	57
Lowland Aspen/Balsam Poplar	0	0	37	0	0	0	0	0	0	37
Natural Mixed Pines	40	0	0	0	0	0	0	0	0	40
Red Pine	0	0	0	0	72	0	0	0	0	72
Upland Mixed Forest	5	0	0	0	21	0	0	0	0	26
<b>Total</b>	<b>102</b>	<b>0</b>	<b>37</b>	<b>0</b>	<b>94</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>233</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	233	0	33	0	0	0	0	63	0	329
Next Step	0	58	0	0	21	0	324	0	47	450
<b>Total</b>	<b>233</b>	<b>58</b>	<b>33</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>324</b>	<b>0</b>	<b>110</b>	<b>779</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>11</b>	<b>53018011.46_</b> <b>NF</b>	3.1	622 - Lowland Shrub	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	6229 - Mixed lowland shrub		No
<p><u>Prescription</u> Maintain the nonforested condition of this stand either through prescribed burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2025</p>										

<b>15</b>	<b>53018015.47_</b> <b>NF</b>	5.7	3105 - Mixed Upland Herbaceous	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Maintain the nonforested condition of this stand either through prescribed burning, planting, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2025</p>										

<b>19</b>	<b>53018019.32_</b> <b>Cut</b>	7.3	42290 - Natural Mixed Pine	Poletimber Well	30	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut, no retention, 2" spec. The purpose of this harvest is to restart this stand: creating a dense future canopy, and encouraging more aspen growth.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked aspen and minor components of other native species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access for harvest: wildlife gate off of Osmun Rd; use the access rd that comes in from the northwest, NOT the one that comes in west from the cedar stand; that one is narrow and would require a lot of work to make driveable for machinery.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Age-Class or Site Quality</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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23	53018023.45_NF	4.0	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
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Prescription Maintain the nonforested condition of this stand either through prescribed burning, planting, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

25	53018025.19_Cut	14.0	42110 - Planted Red Pine	Sawtimber Well	93	111-140	Harvest	Shelterwood	4211 - Planted Red Pine	Two-Aged	No
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Prescription Shelterwood harvest to thin the red pine down to 50 BA. Roundwood harvest only. Leave all canopy sugar maple and basswood where possible. Try to mark trees in a way that can preserve some sugar maple advanced regen; try marking pine in north-south "rows/strips" to help protect the maple regen. Ensure that the strips are cut cleanly to get the best chance at sprouting back.

Potential for understory burn with adjacent burn units depending on the quality of natural regeneration.

Next Step

Monitoring, Natural Regen (Intermediate); NonForestMgt, Other - Specify

Treatments:

Acceptable

Medium stocked mix of sugar maple, basswood, or other merchantable species. If 50% or more of the natural regeneration is comprised of undesirable species (ironwood, beech), perform an understory prescribed burn to help facilitate the establishment of desirable species (red pine) and reduce the amount of current undesirable species.

Other

Subcanopy is full of sugar maple saplings; unlikely most can be protected during harvest. If regen comes back undesirable, consider understory burn to help pine establishment.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

35	53018035.10_NF	24.4	320 - Upland Shrub	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the nonforested condition of this stand either through prescribed burning, herbicide, planting, or mechanical means.

Specs:

Prescribed burn in summer or fall to knock back woody vegetation properly. Return to native grass/forbs. Burn is dependent on stand 43 harvest; exact burn date is unknown. Make this part of the adjacent wildlife burn unit.

Next Step

; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Fully to medium stocked assortment of native grasses and forbs, such as bluestems, bee balm, and goldenrods.

Regen:

Other

Has since become overrun with wood shrubs of autumn olive, Siberian crabapple, and cherry.

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>37</b>	<b>53018037.33_Cut</b>	21.2	4319 - Mixed Upland Forest	Sawtimber Well	82	141-170	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Mark to keep to 50-70BA: Remove all large, poorly formed XL pine first, and thin the smaller log/pole sized well-formed pine and red maple.  
Specs: Mark the red maple more intensely than the pine. Do not harvest or damage any sugar maple and other highly desirable, less common species when possible. Retain basswoods that are over 20" in diameter as wildlife trees and seed sources. Retain the trace bur oak. Need historical check before timber prep begins, railroad grade. If desired species are not obtained after harvest, consider extending the prescribed burn polygon from the west to achieve more pine regeneration.

Next Step Monitoring, Natural Regen (Intermediate); Burn, Understory  
Treatments:

Acceptable Regen: Fully to medium stocked mix of sugar maple, basswood, red pine, and white pine.

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>42</b>	<b>53018042.36_Cut</b>	37.5	4134 - Aspen, Spruce/Fir	Poletimber Well	52	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with retention. Retention already in place due to slope and wet pockets, but more wet pockets may be found during sale prep, and additional retention may need to be placed around those. Do not harvest any white pine, red pine, or cedar. Mark one grouse/hare log tree to be pushed over (root ball attached) every two acres.

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

Acceptable Regen: Fully stocked aspen and minor components of other native species.

Other Comment: Loggers will need key for gate. They will also need to drive over a culvert. Sale admin may need to flag in haul/skid routes, as the closed road is overgrown in many parts. The "G0"s on the map may have a higher water table than expected and parts of them won't make the best decking/landing areas.

Site Condition:

Proposed Start Date: 10/1 /2025

<b>43</b>	<b>53018043.37_Cut</b>	32.7	42290 - Natural Mixed Pine	Sawtimber Well	45	111-140	Harvest	Clearcut	330 - Low-Density Trees		No
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Prescription Clearcut, except for a few mature red or white pines to appear pine savannah-like. No chipping, leave tops. Return to non-forested objective with regular Rx burn and native grasses/forbs. Protect fragrant sumac. Make this part of the adjacent wildlife burn unit.

Next Step NonForestMgt, Other - Specify; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Fully to medium stocked assortment of native grasses and forbs.

Other Comment: Burn does not need to go south of Clark Bridge Road; can use road as boundary.

Site Condition: Age-Class or Site Quality

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>49</b>	<b>53018049.9_Cut</b>	2.5	4134 - Aspen, Spruce/Fir	Sawtimber Well	52	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Specs: Clearcut no retention. Do not cut spruce over 18", and do not cut any birch - mark to protect the spruce. Mark one grouse/hare log tree to be pushed over (root ball attached) every two acres. Add forest raptor nest spec to prescription, given the habitat and previous reports.

Treatment boundary may also need to be adjusted during sale prep, given the seeps, streams, vernal ponds, and sudden wet soils that may not have been completely captured during winter inventory

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

Acceptable Regen: Fully stocked aspen with minor components of other native species.

Other Comment: Access for harvest: work with site condition forester on access across stand 77 OR cut an access road from the west, going along stand 68.

Site Condition:

Proposed Start Date: 10/1 /2025

<b>50</b>	<b>53018050.11_Cut</b>	42.6	42110 - Planted Red Pine	Sawtimber Well	92	111-140	Harvest	Shelterwood	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Specs: Shelterwood with retention, 30 - 50 BA; Snow-off/frost-free harvest only to achieve maximum scarification. Ensure slash is well-spread and not windrowed to assist in seedling establishment. Alternative methods to chipping will be allowed so long as it results in adequate scarification of the site. If not, then chipping will be required. Require a tracked processor for felling operations and work with the operator to encourage as much ground scarification as possible with the processor. Do not harvest oak and protect from damage - mark to protect. Place retention around areas of advanced oak regeneration and/or retain less common and highly desirable species.

If scarification from harvest is not adequate, follow up with scarification treatment, such as dragging chains, disking, trenching, or similar.

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

Acceptable Regen: Medium stocked mix of red pine, aspen, and other desirable species.

Other Comment: Much of the advanced oak regen is around the road. Oak shall be individually marked or given a harvest buffer.

Site Condition:

Proposed Start Date: 10/1 /2025

<b>54</b>	<b>53018054.34_Cut</b>	15.7	42110 - Planted Red Pine	Sawtimber Well	93	111-140	Harvest	Shelterwood	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Specs: Shelterwood with retention, 30 - 50 BA; Snow-off/frost-free harvest only to achieve maximum scarification. Ensure slash is well-spread and not windrowed to assist in seedling establishment. Alternative methods to chipping will be allowed so long as it results in adequate scarification of the site. If not, then chipping will be required. Require a tracked processor for felling operations and work with the operator to encourage as much ground scarification as possible with the processor. Do not harvest paper birch or white pine, and protect from damage - mark to protect.

If scarification from harvest is not adequate, follow up with scarification treatment, such as dragging chains, disking, trenching, or similar.

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

Acceptable Regen: Medium stocked mix of red pine and white pine.

Other Comment: Protect paper birch, which is mostly near the road.

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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57	53018057.40_NF	1.1	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous	No
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Prescription Maintain the nonforested condition of this stand either through prescribed burning, planting, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

63	53018063.29_Cut	4.1	4134 - Aspen, Spruce/Fir	Sawtimber Well	52	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut no retention. Do not cut spruce over 18", and do not cut any birch - mark to protect the spruce. Mark one grouse/hare log tree to be pushed over (root ball attached) every two acres. Add forest raptor nest spec to prescription, given the habitat and previous reports.

Specs:

Treatment boundary may also need to be adjusted during sale prep, given the seeps, streams, vernal ponds, and sudden wet soils that may not have been completely captured during winter inventory

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Fully stocked aspen with minor components of other native species.

Regen:

Other

Access for harvest: wildlife gate off of Osmun Rd; use the access rd that comes in from the northwest, NOT the one that comes in west from the cedar stand; that one is narrow and would require a lot of work to make driveable for machinery.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

65	53018065.42_NF	2.6	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous	No
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Prescription Maintain the nonforested condition of this stand either through prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025





Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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69	53018069.26_Cut	37.4	6112 - Lowland Aspen	Poletimber Well	45	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	6119 - Mixed Lowland Deciduous Forest	Even-Aged	Yes
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Prescription This stand may be suitable for a Wildlife Habitat Grant project. Hand-fell all trees. Harvest in chunks as to not remove the entire transpiration pump and cause flooding. Reserve nannyberry and winterberry where possible. This ground is too soft for any heavy machinery.

Specs:

Stand may be maintained using herbicide, planting, or mechanical means.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Fully stocked lowland aspen with minor components of other native species.

Regen:

Other The goal is to maintain this area as lowland aspen. If no harvesting is done, it will transition to red maple.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

70	53018070.41_NF	1.9	3105 - Mixed Upland Herbaceous	Nonstocked			Unspec ified NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
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Prescription Maintain the nonforested condition of this stand either through prescribed burning, planting, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

72	53018072.31_Cut	4.8	4319 - Mixed Upland Forest	Sawtimber Well	85	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut, no area retention. Do not cut red pine above 20" in diameter and all paper birch - mark to protect the larger red pine. May have to adjust boundary at time of sale prep if stick nest is determined to be active. Add forest raptor nest spec to prescription, given the habitat and previous reports.

Specs:

Treatment boundary may also need to be adjusted during sale prep, given the seeps, streams, vernal ponds, and sudden wet soils that may not have been completely captured during winter inventory

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully stocked aspen, with minor components of other native species.

Regen:

Other Access for harvest: work with site condition forester on access across stand 77 OR cut an access road from the west, going along stand 68.

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>78</b>	<b>53018078.35_Cut</b>	7.5	4130 - Aspen	Sawtimber Well	69	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with retention. Place retention around wetter areas found during sale prep and/or around pockets of retained species. Do not cut birch, sugar maple, cedar, red pine. Also do not cut any basswood over 18" (these will need green paint). Mark one grouse/hare log tree to be pushed over (root ball attached) every two acres. Add forest raptor nest spec to prescription, given the habitat and previous reports. Treatment boundary may also need to be adjusted during sale prep, given the seeps, streams, vernal ponds, and sudden wet soils that may not have been completely captured during winter inventory

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

Acceptable Regen: Fully stocked aspen with minor components of other native species

Other Comment: Access for harvest: work with site condition forester on access across stand 77 OR cut an access road from the west, going along stand 68.

Site Condition:

Proposed Start Date: 10/1 /2025

<b>79</b>	<b>53018079.39_NF</b>	19.2	31022 - Warm Season Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
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Prescription Maintain the nonforested condition of this stand either through prescribed burning, planting, herbicide, or mechanical means.

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

<b>84</b>	<b>53018084.30_Cut</b>	5.8	4130 - Aspen	Poletimber Well	35	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut, no retention. Mark one grouse/hare log tree to be pushed over (root ball attached) every two acres. Individually mark a handful of healthy, dominant sugar maple trees to be retained. Add forest raptor nest spec to prescription, given the habitat and previous reports. Treatment boundary may also need to be adjusted during sale prep, given the seeps, streams, vernal ponds, and sudden wet soils that may not have been completely captured during winter inventory

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

Acceptable Regen: Fully stocked aspen with minor components of other native species.

Other Comment: Access for harvest: work with site condition forester on access across stand 77 OR cut an access road from the west, going along stand 68.

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
85 53018085.38_ NF	0.8	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Maintain the nonforested condition of this stand either through prescribed burning, planting, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2025</p>										

**Approved Treatments:**

46 53018046.48_ Plant	33.0	42110 - Planted Red Pine	Sawtimber Poor	92	1-50	Planting	Underplant	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Plant 10-20 oak saplings (with tree protectors) per acre following harvest and scarification.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regeneration will be at least a medium-stocked stand with at least a 50% representation of red and white pine. Any mix of</p> <p><u>Regen:</u> species will be acceptable in the remaining regeneration.</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 /2025</p>										

**Total Treatment 328.9**  
**Acreeage Proposed:**



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		5B	5C	2F	2G	3A	3G	3J	5A	5E	
243	159	47	36	Aspen		47	20	5		2	5			4
93	3	0	91	Cedar				83			8	0		
3	0	0	3	Hemlock					3					
38	38	0	0	Herbaceous Openland				0						
1	1	0	0	Low-Density Trees										
170	139	0	30	Lowland Aspen/Balsam Poplar				25			5			1
83	55	0	29	Lowland Conifers				29						
28	0	0	27	Lowland Deciduous				16				12		
66	0	0	66	Lowland Mixed Forest				58		8				
101	101	0	0	Lowland Shrub				0						
40	0	0	39	Lowland Spruce/Fir				39						
61	61	0	0	Marsh				0						
246	246	0	1	Mixed Upland Deciduous						1				0
40	0	40	0	Natural Mixed Pines		40		0						
135	133	0	3	Northern Hardwood				3				0		
5	5	0	0	Planted Mixed Pines				0						0
351	112	236	2	Red Pine	20	217		0						2
3	3	0	0	Tamarack				0						
106	106	0	1	Upland Mixed Forest	0	0		0				1		
24	24	0	0	Upland Shrub										
14	14	0	0	Upland Spruce/Fir										
1,850	1,198	323	329	Total Forested Acres	20	304	20	258	3	11	18	12		7
	65%	17%	18%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Vernal Pools complex; 100ft buffer							



2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	54	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Two separate streams were found in this stand during inventory. Cedar quality only mediocre.</p>							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Stand becomes very wet in the north half.</p>							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  At least two streams meander throughout this stand.</p>							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Standing water, sensitive fern, slight dip in topography. Full of stressed trees, dead ash.</p>							
6	Unavailable	5A: Not able to obtain desirable regeneration	12	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Unique stand, hemlock dominated. Do not manage.</p>							
7	Available	5B: Maintain for regeneration purposes	20	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							



## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit  
 Joyanne Mittig: Examiner

Compartment: 18  
 Year of Entry: 2026



8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	23	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>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
<p>Leave as is. Excellent sugar maple regen, the majority of which is free to grow and would be destroyed during a red pine harvest; and with current browse pressure, I highly doubt we would get any back.</p> <p>Almost resembles a shelterwood or something. Great regeneration.</p>							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
<p>This strip covers a low-lying wet area within an otherwise upland stand. Retains a good deal of standing water in the winter. Protect for habitat/biodiversity.</p>							
11	<b>Unavailable</b>	<b>2F: Too steep</b>	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
<p>Upland/lowland transition. Provides a nice buffer to the wetland. Do not harvest. Significant slopes on the edges; cannot harvest the edges because that would mean machines turning around in wetlands.</p>							
12	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	3	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
<p>3 acres of XL hemlock. Do not harvest.</p>							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Joyanne Mittig: Examiner

Compartment: 18

Year of Entry: 2026



13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet area with standing water extends out from cedar swamp							
14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	77	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leave this overstory as is, and I believe that was the intent of the original harvest. Borderline R7 stand in my opinion, with many areas of lower BA. Residual trees are providing excellent supercanopy structure. Except for some of the red pine regen pockets, most of this regeneration consists of shade tolerant hardwoods and are receiving more than enough light at this time.							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leave as is. This was thinned last entry and, Greg's goal was to retain this as a mature closed canopy stand with higher BAs, seeing as how almost everything else in the surrounding area has much lower BAs.							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	16	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very wet drainage.							
17	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Unnecessary to remove the red pine supercanopy. Seedlings are getting plenty of light.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	65	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There may be portions along the northern boundary that are operable but the majority is wet ground with mediocre quality cedar. Portion of stand west of the compartment line was harvested and has not regenerated to cedar. Portions of the stand were flooded.							
20	Unavailable	2F: Too steep	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wetland inclusion.							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wetland inclusion							





24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> White pine inclusion, very little aspen present, could probably be mapped as its own stand.							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area of lowland with tag alder, sparse aspen, and flowing stream.							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Would not be able to harvest the red pine and protect the advanced regen, which is doing fine under the red pine, which is only 30BA.							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Upland/lowland transition. Provides a nice buffer to the wetland. Do not harvest. Significant slopes on the edges; cannot harvest the edges because that would mean machines turning around in wetlands.							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold this stand until the adjacent stands and/or stand 9 can be cut with it.							



30	Unavailable	3G: Other Influence zones - See comments	11	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  This site condition includes portions of multiple stands, which fall in the cold-water stream buffer zone for Little McMaster's Creek</p>							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Site condition added; waiting on natural pine guidance</p>							
32	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
33	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
34	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Potential archaeological significance. Depression in ground adjacent to old RR grade.</p>							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b>                  Saturated soils in the north and ephemeral drainages</p>							
36	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							



37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Site condition; waiting for natural pine guidance							
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet pocket, most of the trees (aspen and BAM) are dead.							
39	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
40	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
42	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Report 4 – Site Conditions



47	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
49	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

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.

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SCA Name	SCA Category	Detail Type	Recommendation	Acres
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**Comments**

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

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	6112 - Lowland Aspen	Sawtimber Well	22.6	52	141-170	N/A	<p>2026 YOE Notes: Southern triangle area of this stand is wetter than the northern areas, also has larger trees and more species diversity. The area north of this triangle has more conifer regen. The beaver have expanded their range and presence in the adjacent stands since the last inventory cycle.</p> <p>Forest Treatment Proposal Records from 1971 said: clearcut in 1972 by prison crews for deer and elk.</p> <p>2016 YOE Notes: -A few exterior portions of this stand are operable however a very wet drainage goes through the center of this stand. Some blowdown in the wetter areas. Well developed shrub layer. -Other species that were present but rare include cedar, white spruce, elm, white pine, and basswood.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	5	XLog	22		American Highbush Cranberry	Low		< 5 feet	Tall Shrub
Red Maple	2	Log/Pole	14		White Spruce	Medium		< 5 feet	Seeding
Sugar Maple	1	Log	14		Beech	Low		5 - 10 feet	Sapling
Paper Birch	3	Pole	7		White Pine	Medium		Variable	Sapling
White Spruce	5	Log/Pole	12		Red Maple	Low		Variable	Sapling
Balsam Fir	10	Pole	7		Red Pine	Low		>20 feet	Sapling
White Pine	15	XLog/Log	19		Black Ash	Medium		< 5 feet	Seeding
Bigtooth Aspen	2	Log	12		Paper Birch	Low		>20 feet	Sapling
Balsam Poplar	4	Pole/Log	8		Red Osier Dogwood	Low		< 5 feet	Tall Shrub
Quaking Aspen	53	Log/Pole/XLog	10	52	Nannyberry	Low		5 - 10 feet	Tall Shrub
					Balsam Fir	High		Variable	Sapling
					Black Cherry	Low		5 - 10 feet	Sapling
2	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	45.8	300	201+	N/A	<p>2026 YOE Notes: Balsam poplar and quaking aspen declining due to old age; many are already dead. Most stems in this stand are cedar, but a large chunk of the canopy space is taken up by the popples. Balsam fir sapling regen pockets scattered throughout. Cored a 14" cedar, and most of it was rotted, but in the 2.25 inches of the core sample that were not rotted, I counted 76 years. Then I cored a 12.5" cedar with a fully solid core, and counted 330 years. I brought a core back for Greg and he counted 230 rings, but he said his was probably an undercount; I settled on 300. I have never seen such small growth rings in my life. More old, charred stumps in the southern portion of the stand. The southernmost finger of this stand is an upland inclusion. Found several streams; they seem to be flowing north. They originate out of the southern area of the stand, which has a slightly higher elevation. **tag alder/willow 1 acre inclusion at the southernmost point of this stand along the trail; seems to be filling in with trees**2016 YOE Notes: -Stand gently slopes down to the northeast. Several small streams originate in this stand. Quality and size of cedar decline sharply as you move northeast in the stand.-Trace of balsam fir, paper birch, red maple, and white pine.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	1	Pole/Log	8		Balsam Fir	Low		Variable	Sapling
Balsam Poplar	25	XLog	20	104	Willow spp.	Low		10 - 20 feet	Sapling
Red Maple	3	Log	13		White Spruce	Low		< 5 feet	Seeding
Hemlock	1	XLog	18		Tag Alder	Low		5 - 10 feet	Tall Shrub
Quaking Aspen	5	XLog	24		White Ash	High		< 5 feet	Seeding
White Spruce	5	Log/Pole	10						
Paper Birch	9	Log/Pole	10						
Northern White Cedar	50	Log/XLog/Pole	14	300					
White Pine	1	XLog	27	170					
4	6120 - Lowland Cedar	Sawtimber Well	19.0	156	201+	N/A	<p>2026 YOE Notes: Heavy browse, recent elm death (pole and log sized elms) in the north. Tip ups common. Large range of log/pole cedar sizes. Streams present. Cored a 13" dbh cedar, got 156 years.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	1	Pole	7		Elm (Spp.)	Medium		< 5 feet	Sapling
Northern White Cedar	85	Log/Pole	13	156	Balsam Fir	Medium		Variable	Sapling
White Pine	1	XLog/Log	21						
Red Maple	1	Log	12						
Yellow Birch	1	Pole	7						
Balsam Fir	1	Pole	7						
Hemlock	10	Log/Pole	14						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>5</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Well	11.7	102	201+	N/A	2026 YOE Notes: Red maple with larger crowns, overtopping swamp conifers. Standing water throughout. Cored a 19" RM: 102 years. Cored a 17" NWC: 108 years. Trace sugar maple, balsam fir in subcanopy. Snow was covering most of the ground, but I did manage to regularly see ferns, clubmoss, and sedge.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Hemlock		8	Log	12		Beech		Low	5 - 10 feet	Sapling	
Northern White Cedar		30	Log/XLog/Pole	16	108	Ash (spp.)		Low	< 5 feet	Sapling	
Ironwood		1	Pole	6							
Basswood		2	Log/XLog	16							
Yellow Birch		5	Log	12							
Paper Birch		10	Log/XLog	14							
Quaking Aspen		5	XLog	21							
Red Maple		38	Log/XLog	17	102						
Balsam Fir		1	Pole	9							

<b>6</b>	4130 - Aspen	Poletimber Well	4.3	44	51-80	N/A	2026 YOE Notes: observed this stand from the north edge and south edge; both edges have impressive paper birch regeneration. 2016 YOE Notes: -The east edge of this stand is very wet. Residual cedar left from previous harvest.-Small opening at the south end of stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		70	Pole	5	44	Red Maple		High	Variable	Sapling	
Balsam Fir		3	Pole/Sapling	5		Black Ash		Medium	Variable	Pole	
Northern White Cedar		10	Log/Pole	10		Balsam Fir		Low	Variable	Sapling	
Paper Birch		17	Pole	5							

<b>7</b>	4130 - Aspen	Sawtimber Medium	9.0	70	111-140	N/A	2026 YOE Notes: Poor quality aspen. Large, random opening of bracken fern in the middle of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		1	Log	10		Balsam Fir		Medium	Variable	Sapling
Red Maple		10	Log	11						
Bigtooth Aspen		5	Log/Pole	12						
Quaking Aspen		82	Log/Pole	11	70					
Balsam Fir		1	Log/Pole	10						
White Spruce		1	Pole/Log	8						

2016 YOE Notes: -Low-stocked stand of poor quality. Non-forested openings mixed in throughtout.  
-Manage with adjacent aspen stand to the west if a treatment is prescribed at some point.  
-Trace of white pine, hemlock, and cedar.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>8</b>	4110 - Sugar Maple Association	Sawtimber Medium	27.1	103	51-80	N/A	<p>2026 YOE Notes: This stand was previously joined with the north 28 acres, I split them at the dividing line of timber quality/size; this is likely due to previous management (3C red pine sale went along the east side of each of the fingers). Some overstory red pine still exists, but most of the hardwoods in this stand are short, poor form (there are a handful of nicer stems present). Regeneration didn't do well; areas that were harvested more heavily only came back to ash and rubus; extreme browse really limits what is able to grow. Found one 33" basswood. Sugar maple regenerated, but extremely browsed. BA swings of 60, 100, 60, 70.</p> <p>2016 YOE Notes: -The north and west parts of the stand were recently thinned, a lot of volume was removed. The south/southeast portions of this stand were included in the 3C Red Pine sale and had all red pine removed. These areas have a low residual ba/acre with primarily small sugar maple, white ash, and ironwood. Dense raspberry, ironwood, and white ash dominate regeneration in low ba areas, with sugar maple and basswood regen being present occasionally but browsed heavily. -North/northwest finger of stand has a wet drainage with small inclusions of cedar and lowland hardwoods. -Trace of red maple, yellow birch, paper birch, hemlock, beech, and aspen.</p> <p>Hardwood thinning in the northern third of the stand in 1976</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		75	Log/Pole/XLog	13	103	Balsam Fir		Low	5 - 10 feet	Sapling
Red Pine		13	XLog/Log	19		Black Cherry		High	5 - 10 feet	Sapling
Quaking Aspen		1	Pole/Log	8		Red Oak		Low	5 - 10 feet	Sapling
Basswood		10	Log/Pole/XLog	17		Wild Red Raspberry		Medium	< 5 feet	Tall Shrub
Red Maple		1	Log/Pole	10		Beech		Low	>20 feet	Pole
						Ironwood		High	Variable	Sapling
						Ironwood		Medium	>20 feet	Pole
						White Ash		Medium	< 5 feet	Sapling
						Red Maple		Low	>20 feet	Pole
						Sugar Maple		Low	Variable	Sapling
						Red Maple		Low	>20 feet	Sapling
						Beech		Medium	Variable	Sapling
						White Ash		Low	>20 feet	Pole

<b>9</b>	4319 - Mixed Upland Forest	Poletimber Well	19.7	44	51-80	N/A	<p>2026 YOE Notes: When this stand was harvested in 1980, they must have left some hemlock and cedar. Pit and mound topography. Stand slopes down to the east. Southern area of this stand is much wetter; standing water present. Autumn olive present in small gaps yet to fill in completely with trees. Basal area average of 60 BA.</p> <p>Found the fence talked about in previous inventory: it's starting to flop over; the cedar posts holding it up must be starting to rot. There are also these red and white striped plastic tubes at four of the posts. It almost looks like it was supposed to be a deer enclosure of some kind; if it was, it worked; within the fenced area, there is plenty of dogwood and tall sugar maple saplings. The aspen within the fence look like they've been recently ribboned; fresh orange flagging tape on them.</p> <p>2016 YOE Notes: -Some pockets of lowland throughout. -There is a small fence enclosure in the center of this stand. -Other species that were present but rare include white spruce, black cherry, and sugar maple.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Ash		1	Sapling	3		Black Ash		Low	Variable	Sapling
Hemlock		1	Log/Pole	13		Ironwood		Low	5 - 10 feet	Sapling
Quaking Aspen		47	Pole/Sapling	5	44					
Balsam Fir		44	Pole/Sapling	5						
Northern White Cedar		5	Log/Pole	10						
Black Spruce		1	Pole	9						
Black Cherry		1	Sapling	2						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	4119 - Mixed Northern Hardwoods	Sawtimber Well	51.3	107	81-110	N/A	<p>2026 YOE Notes: Northern tip of the stand has aspen and balsam fir (trace balsam fir in canopy), but aspen and balsam fir aren't present in the rest of this stand. Beech that was probably alive during the previous inventory is now dead; looks like 90% of the beech is dead. The basswood is quite large, some is dead. Ash snags throughout. Sugar maple size is variable, ranging from small logs to XL trees. Regular hemlock pockets throughout, especially in the north 1/2 of the stand. Cored a 20" hemlock, 140 years old. Cored a 19" basswood, could only count 3/5ths of the core due to rotting wood; counted 87 rings, estimating another 20 I couldn't read (107 years total, which is in line with previous inventory stand age). There are a few hemlock seedlings growing on the south side of the trail, east of the wet area/pond. The closer to stands 2, 5, 39, and 19 you get, the more red maple and yellow birch pop up in the canopy, as well as the potential for standing water/wet soil. In the southern half of the stand, the amount of hemlock is minimal, unlike the north half. Also in the southern half, red maple is more common in the canopy, and it's typically larger than in the north (XL). From 3 BA swings, I got: 160 (higher BA due to nearby hemlock), 100, and 100.</p> <p>2016 YOE Notes: -Clover Road Hardwood, #53-011-01-01. Thick understory of undesirable hardwoods. -QD overestimated ash abundance. Most of the ash occurred in one plot along the northern edge in a wetter area that wasn't included in the harvest. -Scattered BBD on the beech. -Trace of red maple and aspen.</p>
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Log/XLog	13	
Yellow Birch	1	Log/Pole	10	
Hemlock	12	XLog/Log/Pole	18	140
Beech	5	XLog	20	
Quaking Aspen	5	Log/Pole	10	
Basswood	45	Log/XLog	17	107
Red Maple	12	XLog/Log/Pole	20	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	< 5 feet	Seeding
Sugar Maple	Medium	>20 feet	Sapling
White Ash	Medium	Variable	Sapling
Beech	Full	5 - 10 feet	Sapling
Basswood	Low	< 5 feet	Seeding
Ironwood	Full	5 - 10 feet	Sapling

11	622 - Lowland Shrub	Nonstocked	3.5	Unspecified	No	Lowland stand, full of autumn olive and standing water
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Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Full		Non-Wood
Scotch Pine	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Autumn Olive	Full	5 - 10 feet	Tall Shrub

12	6230 - Cattail	Nonstocked	1.8	Unspecified	No	2026 YOE Notes: Cattails throughout, standing dead cedar 2016 YOE Notes: -Standing dead cedar throughout.-Autumn olive along the road that passes through the stand.-Surprising amount of cedar regen in the south half of stand. Browsing impacts aren't too bad.
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Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Full	Unspecified	Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**13** 6229 - Mixed lowland shrub Nonstocked 5.9 0 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Medium	Unspecified	Non-Wood
Balsam Poplar	Low	Variable	Sapling
Red Maple	Low	>20 feet	Pole
Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Spruce	Low	5 - 10 feet	Sapling
Virgin's Bower	Low	5 - 10 feet	Vine
Black Spruce	Low	>20 feet	Sapling
Goldenrod spp.	Medium	Unspecified	Non-Wood
Siberian Crab	Low	5 - 10 feet	Tall Shrub
Nannyberry	Medium	5 - 10 feet	Tall Shrub
Michigan Holly	Low	5 - 10 feet	Tall Shrub
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Paper Birch	Low	>20 feet	Pole

2026 YOE Notes: Merged several P-type stands; these stands were forested during the prior inventory, but water level has since risen, killing off most of the trees that once populated these stands (quaking aspen, balsam poplar, black ash, elm, balsam fir). This stand is primarily full of dead standing aspen, cattails, and water-loving shrubs. Unsure why the water level rose to such levels; EAB and Dutch elm disease could cause loss of transpiration pump, creating a domino effect. Found Siberian crab apple and bittersweet nightshade (invasive plants). Royal fern, sensitive fern, various asters, (what I assume is) swamp milkweed, fireweed, and avens present.

Forest Treatment Proposal Records from 1971 said: clearcut in 1972 by prison crews for deer and elk.

Culvert in northmost part of stand was installed in 2006/2007; the old one was removed prior.

2016 YOE Notes: -Very wet stand. A drainage passes through the middle of this stand.  
-All black ash in stand has EAB.

**14** 6132 - Mixed Lowland Forest with Cedar Poletimber Well 12.5 55 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	5	Log	15	
Balsam Fir	10	Pole	5	
Quaking Aspen	32	Log	11	55
Basswood	5	Log	10	
Paper Birch	3	Pole/Log	8	
White Spruce	12	XLog	20	
Northern White Cedar	25	Log/Pole/XLog	15	
Bigtooth Aspen	5	Log	11	
Hemlock	2	Log/Pole	10	
White Ash	1	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
White Spruce	Low	< 5 feet	Sapling

2026 YOE Notes: Stream flows through this stand, runs along the west boundary. It flows to the north. Trace tag alder and beech in the understory. Large, charred stumps present. There is a small open area dominated by tag alder. Avg 190 BA.

2016 YOE Notes: -Strange stand, appears as if everything except cedar and spruce were cut out of this stand at one time. Couldn't find any sale records though.  
-A wet drainage runs south through the middle of the stand. The south end becomes very wet and poor quality.  
Records from 1972 said: clearcut in 1973 by prison crews for deer and elk.

**15** 3105 - Mixed Upland Herbaceous Nonstocked 5.7 Unspecified Managed Opening

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Full		Non-Wood
Red Pine	Trace		Seeding
White Pine	Trace		Seeding
Red Pine	Trace		Log



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>16</b>	42210 - Natural Red Pine	Poletimber Poor	3.0	37	1-50	N/A	2026 YOE Notes: Strange stand; red pines of various sizes, smooth, rolling topo, multiple rock piles present. Too wide for railroad grade on top of hills. Checked LiDAR and 1938 +1978 aerial imagery and didn't find anything out of the ordinary. Autumn olive and raspberry colonizing open areas.  2016 YOE Notes: -Strips of red pine, not sure if planted, various sizes.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Poplar		3	Pole/Sapling	5		Red Pine	
White Spruce		5	Pole	5		Balsam Poplar	
Red Pine		90	Pole/Log/Sap	8	37	Density	
Balsam Fir		1	Pole	6		Avg. Height	
Quaking Aspen		1	Sapling/Pole	4		Size	
						Sapling	
						Sapling	
<b>17</b>	6229 - Mixed lowland shrub	Nonstocked	27.7		Unspecified	No	Similar to stand 59 to the south. Tag alder, cattails, wetland grasses and forbs present throughout. A river/creek runs through stand as well. Beaver activity present.
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Sedges		Full		Non-Wood			
Alder		Medium		Tall Shrub			
<b>18</b>	42210 - Natural Red Pine	Sawtimber Well	3.5	95	171-200	N/A	2026 YOE Notes: Lots of dead, log-sized jack pine; likely got overtopped by the faster growing, more shade tolerant mix of species. All of the red maple are stump sprout origin. Looks like there was a harvest around 45 years ago, where they left all the red pine, and everything else grew up around it in that time. 180 BA on average.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Pine		20	Log/Pole/Sap	11	46	Balsam Fir	
Balsam Fir		5	Pole/Sapling	6		Density	
Red Maple		7	Pole/Log/Sap	8		Avg. Height	
Red Pine		65	XLog	23	95	Size	
Quaking Aspen		3	Log/Pole	10		Sapling	
<b>19</b>	42290 - Natural Mixed Pine	Poletimber Well	7.3	30	51-80	N/A	2026 YOE Notes: delineated as its own stand; significantly forested with jack pine, white pine, red pine, and quaking aspen.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Balsam Fir		10	Pole/Sapling	7			
Red Pine		35	Pole/Sapling	7	30		
Quaking Aspen		5	Sapling	2			
Jack Pine		25	Pole/Sapling	5			
White Pine		25	Pole/Sapling	7	30		
<b>20</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	6.4	92	51-80	N/A	2026 YOE Notes: White ash is dead/dying. Impressive sugar maple poles. Still has low BA; average of 60 BA.  2016 YOE Notes: -A young hardwood stand with older basswood mixed in. -Basswood regeneration present in the understory but browse is knocking it back.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Bigtooth Aspen		22	XLog/Log/Pole	18		Ironwood	
Ironwood		3	Pole/Sapling	5		Basswood	
Red Maple		7	Pole	6	53	Density	
Balsam Fir		2	Pole/Log	8		Avg. Height	
Beech		11	XLog	20		Size	
Red Pine		2	Log	15		Sapling	
Basswood		32	Log/XLog	17	92	Sapling	
Sugar Maple		21	Pole	5			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																													
<b>21</b>	6122 - Black Spruce	Poletimber Well	36.4	93	141-170	N/A	2026 YOE Notes: Sphagnum moss hummocks, labrador tea, leatherleaf.																																																																													
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<b>22</b>	42330 - Upland Fir	Poletimber Well	13.6	35	111-140	N/A	2026 YOE Notes: Growing nicely; could be harvested in 10 to 20 years. 2016 YOE Notes: -Stand was cut as part of Up and Over Aspen, #53-007-86-01, Kapalla Logging. -Beaver have eliminated most of the aspen from this stand.																																																																													
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<b>23</b>	3105 - Mixed Upland Herbaceous	Nonstocked	4.0		Unspecified	No	Solidago, Queen Anne's Lace, little bluestem, tag alder, and white pine also present. Southern area of stand is wet; has standing water and a high water table.																																																																													
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<b>24</b>	6112 - Lowland Aspen	Poletimber Well	86.7	35	1-50	N/A	2026 YOE Notes: Combined 3 stands together from previous inventory. East 1/3 of stand is more diverse: variable sizes of aspen, fir, and spruce. Some pockets of standing water, and tag alder. Some patches of just fir and spruce. Noticed some diversity in the far east portion of the stand: large white pine, spruce, fir, and less aspen component. Water table seems close to surface; standing water in parts of the stand and the surrounding trails/closed roads. LiDAR shows stand is full of drainages that run north/south. A few openings in this stand around the closed roads; Autumn olive filling in the open areas.  2016 YOE Notes: -Clearcut in 1986; Up and Over Aspen, #53-007-86-01, Kapalla Logging. 46 cords of cedar cut out of stand, in addition to aspen. -Several long drainages run N-S through this stand.																																																																													
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<b>25</b>	42110 - Planted Red Pine	Sawtimber Well	14.1	93	111-140	N/A	2026 YOE Notes: Impressive sugar maple regeneration under the red pine. White ash is now dead. Random red pine mortality (old, not recent). BA swings of 100, 80, and 160.																																																															
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<b>26</b>	6123 - Lowland Fir	Sapling Medium	11.8	51	1-50	N/A	This is a more forested section of the lowland area that loops around this compartment. There are some open areas, but not enough to delineate as their own stand. River/creek actively runs through. Very wet.																																																															
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<b>27</b>	42110 - Planted Red Pine	Sawtimber Poor	26.0	92	1-50	N/A	2026 YOE Notes: Impressive regeneration. Low basal area; 40 to 50 BA on average.																																																															
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<b>28</b>	6111 - Lowland Balsam Poplar	Sapling Medium	17.8	6	1-50	N/A	2026 YOE Notes: Stand was cut in winter 2018 as part of sale Clark Bridge Mix #53-002-16. Regenerating trees are about 10ft tall. Some quaking aspen and spruce make up supercanopy. Stand is full of siberian crab apple, red osier dogwood, and aspen (quaking and balsam poplar). The stand is quite wet, with some pockets of cattails. I am eager to see how this stand develops over the next few decades. Not all of it is evenly forested; there are quite a few (likely wetter) areas where aspen is not growing. Regardless, should provide good diversity in the area.																																																						
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<b>29</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	28.8	61	201+	N/A	2026 YOE Notes: Dense cedar and tarmack stand, lots of partial blowdown; impossible to traipse across with only bipedal motions. I'm hopeful cedar can regenerate in areas with blowdown. Canopy is more cedar heavy in the south, more tamarack heavy in the north. Balsam fir remains thick throughout.																																																						
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I found records in the office saying this area was either cut or proposed to be cut in 1963.																																																													
2016 YOE Notes: -Decent quality cedar at the south end of stand but the stand quickly becomes much wetter as you move north. Pockets of cedar mortality at the north and west edges due to flooding. Quite a bit of blowdown throughout. -Other species that were present but rare include paper birch, tamarack, BAM, hemlock, and red maple.																																																													
<b>30</b>	6229 - Mixed lowland shrub	Nonstocked	6.1		Unspecified	No	2026 YOE Notes: Massive blowdown regenerating to tag alder, cattails, and scattered saplings. Next inventory cycle check for cedar regen, and if it's able to move into this stand and avoid browse.																																																						
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Sub-Canopy Species	Density	Avg. Height	Size																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
31	6229 - Mixed lowland shrub	Nonstocked	12.5	0	Unspecified	No	2026 YOE Notes: Merged several P-type stands; these stands were forested during the prior inventory, but water level has since risen, killing off most of the trees that once populated these stands (quaking aspen, balsam poplar, black ash, elm, balsam fir). This stand is primarily full of dead standing aspen, cattails, and water-loving shrubs. Unsure why the water level rose to such levels; EAB and Dutch elm disease could cause loss of transpiration pump, creating a domino effect. Found Siberian crab apple and bittersweet nightshade (invasive plants). Royal fern, sensitive fern, various asters, (what I assume is) swamp milkweed, fireweed, and avens present.  Forest Treatment Proposal Records from 1971 said: clearcut in 1972 by prison crews for deer and elk.  Culvert in northmost part of stand was installed in 2006/2007; the old one was removed prior.  2016 YOE Notes: -Very wet stand. A drainage passes through the middle of this stand. -All black ash in stand has EAB.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Spruce	Low	5 - 10 feet	Sapling	
								Black Spruce	Low	>20 feet	Sapling	
								Goldenrod spp.	Medium	Unspecified	Non-Wood	
								Siberian Crab	Low	5 - 10 feet	Tall Shrub	
								Virgin's Bower	Low	5 - 10 feet	Vine	
								Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub	
								Paper Birch	Low	>20 feet	Pole	
								Cattail spp.	Medium	Unspecified	Non-Wood	
								Balsam Poplar	Low	Variable	Sapling	
								Red Maple	Low	>20 feet	Pole	
								Tag Alder	Medium	5 - 10 feet	Tall Shrub	
Nannyberry	Medium	5 - 10 feet	Tall Shrub									
Michigan Holly	Low	5 - 10 feet	Tall Shrub									
33	42210 - Natural Red Pine	Sawtimber Poor	19.5	96	1-50	N/A	2026 YOE Notes: Diverse regen species and sizes. Everything under 6ft tall is browsed except conifers. Regen is random and scattered; many open areas. Average 10 BA  2016 YOE Notes: -North Road 37 Red Pine, #53-004-06-01. Bought by Highland Timber. Prescription said seed tree but not many red pine left at all. No scarification took place. -Regen is patchy with many open areas. Browse heavy on red maple and aspen in a few spots. -Regen survey 2013 - red pine tpa 80, red maple tpa 1560, q aspen tpa 1460, bfir tpa 160.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Pine	100	XLog	25	96
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Low	>20 feet	Sapling	
								White Pine	Medium	5 - 10 feet	Sapling	
								Quaking Aspen	Medium	>20 feet	Sapling	
								White Oak	Low	10 - 20 feet	Sapling	
								Red Pine	Medium	5 - 10 feet	Sapling	
								Black Cherry	Low	5 - 10 feet	Sapling	
								Balsam Fir	Medium	5 - 10 feet	Sapling	
								Red Maple	Low	Variable	Sapling	
								Beech	Low	10 - 20 feet	Sapling	
34	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	11.6	29	51-80	N/A	2026 YOE Notes: Diverse, variable diameters, densities, and sizes, hence uneven-aged. Stem diameter decreases as you move north. Topography also slopes downhill to the north. South edge of stand is slightly drier than the rest. Dense, conifer dominated. Trees are short and stout. Standing water. Absolutely massive stumps found (3 ft diameter). Legacy white pines present, especially in the western portion (34" diameters not uncommon). In fact, there is a 1 to 2 acre stretch (1 considered an inclusion) of large, old trees that can be seen on imagery. These are white pine, cedar, and paper birch. There is a small blow down patch just on the north side of these giants, and it is regenerating; even cedar (10 ft tall) is regenerating; too difficult for deer to walk through.  2016 YOE Notes: Mix of upland and lowland. Scattered hemlock and cedar throughout. Looks like some cedar was cut in previous harvest.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	15	Log	13	
								Red Maple	5	Pole/Sap/Log	6	
								Paper Birch	5	Sapling/Pole	4	
								Red Pine	2	XLog	20	
								Balsam Fir	25	Pole/Log/Sap	7	29
								Hemlock	10	Log/Pole	12	
								Tamarack	1	Pole/Sapling	5	
								Quaking Aspen	8	Log/Pole	10	
								Balsam Poplar	8	Sapling	4	
								White Pine	20	Pole/Log/Sap	8	
								Sub-Canopy Species	Density	Avg. Height	Size	
Balsam Fir	Low	Variable	Sapling									
White Spruce	Low	< 5 feet	Seeding									
Tag Alder	Low	Variable	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	320 - Upland Shrub	Nonstocked	24.4	0	Unspecified	No	<p>Sparse stand, most of the woody vegetation is cherry, autumn olive, and Siberian crabapple. Super canopy of scattered red pine and white pine, sometimes in pockets/islands. Currently, there is a lot of snow on the ground and I can't see the native species mix or perform the native pollinator plant survey. Seems like a lot of woody vegetation (cherry shrub, mostly) has moved in since the timber harvest.</p> <p>2019 - Stand clearcut and chipped in the spring of 2019 in the sale Clark Bridge Mix, #53-002-16-01. Bought by Hydrolake, cut by a Precision crew. Objective was to open this stand back up to a G type. Main skid trail heading east into the pine stand was heavily compacted due to the large amount of chipping required. However, I would expect it to reseed to grass and other herbaceous species quickly. A few small clumps of residual pine left but that's about it. Trace amounts of invasive Japanese barberry, honeysuckle, and Siberian crabapple. See comments below, leave this stand as a natural G type.</p> <p>There is a large amount of milkweed in this stand as well as pockets of black-eyed Susan and aster. This stand should be left alone as a beneficial nectar source and should not be planted to an exotic forage crop, which would only benefit game species.</p>

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	6229 - Mixed lowland shrub	Nonstocked	5.5	0	Unspecified	No	<p>2026 YOE Notes: Merged several P-type stands; these stands were forested during the prior inventory, but water level has since risen, killing off most of the trees that once populated these stands (quaking aspen, balsam poplar, black ash, elm, balsam fir). This stand is primarily full of dead standing aspen, cattails, and water-loving shrubs. Increased water levels could be due to variety of factors; high presence of beaver (and dams) all through wetland complex, EAB and Dutch elm disease could cause loss of transpiration pump, creating a domino effect. Found Siberian crab apple and bittersweet nightshade (invasive plants). Royal fern, sensitive fern, various asters, (what I assume is) swamp milkweed, fireweed, and avens present.</p> <p>Forest Treatment Proposal Records from 1971 said: clearcut in 1972 by prison crews for deer and elk.</p> <p>Culvert in northmost part of stand was installed in 2006/2007; the old one was removed prior.</p> <p>2016 YOE Notes: -Very wet stand. A drainage passes through the middle of this stand. -All black ash in stand has EAB.</p>

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Medium	Unspecified	Non-Wood
Balsam Poplar	Low	Variable	Sapling
Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Paper Birch	Low	>20 feet	Pole
Red Maple	Low	>20 feet	Pole
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	Low	>20 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling
Virgin's Bower	Low	5 - 10 feet	Vine
Nannyberry	Medium	5 - 10 feet	Tall Shrub
Michigan Holly	Low	5 - 10 feet	Tall Shrub
Goldenrod spp.	Medium	Unspecified	Non-Wood
Siberian Crab	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>37</b>	4319 - Mixed Upland Forest	Sawtimber Well	21.2	82	141-170	N/A	2026 YOE Notes: 50% of the canopy is red pine and white pine XL trees; about 25" DBH, typically multi-stemmed and 82 years old. 25% of the canopy is red and white pine poles and logs, single-stemmed, and 39 years old. Found one 53" sugar maple. Good amount of pole and sapling sugar maple. Found one small bur oak pole. BA swings of 150 and 160. Railroad grade runs north/south through the stand.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Black Cherry	1	Pole	6		White Pine	Low		10 - 20 feet	Sapling	
Red Maple	5	Log	14		Japanese Barberry	Medium		5 - 10 feet	Tall Shrub	
Red Pine	10	Pole	9	39	Sugar Maple	High		>20 feet	Sapling	
Ironwood	1	Pole	6		Beech	High		Variable	Sapling	
Sugar Maple	5	Pole	9		Bur Oak	Trace		10 - 20 feet	Pole	
Beech	1	Pole	6		Basswood	Medium		Variable	Sapling	
White Pine	10	Pole	9	39	Siberian Crab	Medium		5 - 10 feet	Tall Shrub	
Basswood	5	XLog	21		White Ash	Low		< 5 feet	Seeding	
Red Pine	25	XLog	24	80	Red Oak	Low		< 5 feet	Sapling	
Basswood	5	Pole	7		Serviceberry (Juneberry)	Low		5 - 10 feet	Sapling	
Paper Birch	1	Log/Pole	10							
Sugar Maple	1	XLog	53							
White Pine	25	XLog	25	82						
American Elm	5	Pole/Sapling	5							
<b>38</b>	330 - Low-Density Trees	Nonstocked	1.4	0	Unspecified	No		Harvest went too far into wet soils; area not regenerating to trees. Full of rushes. Some standing water.		
<b>39</b>	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	3.0	150	201+	N/A		2026 YOE Notes: I delineated this as its own stand. Most of the stems in this stand are XL hemlock. Most of the beech is dead. Only a few stems of basswood are dead. Understory is pretty sparse.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Yellow Birch	1	Log	12		Beech	Medium			5 - 10 feet	Sapling
Basswood	37	XLog/Log	20							
Red Maple	6	XLog	21							
Hemlock	55	XLog	27	150						
Beech	1	XLog	20							
<b>40</b>	4130 - Aspen	Sapling Well	14.5	6	Immature	N/A	2026 YOE Notes: Aspen regen thick and doing well; over 10ft tall. cut in 2017-18 as part of the Skeeterville Aspen sale (53-018-14-01) Forest Treatment Proposal Records from 1971 said: clearcut (except for conifers) in 1972 by contract for deer and elk.			
Canopy Species	% Cover	Size Class	DBH	Age						
Quaking Aspen	85	Sapling	1	6						
Red Pine	12	XLog	20							
White Pine	3	Log	14							





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>42</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	46.7	52	141-170	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
White Pine	1	XLog	26				
Red Pine	1	Log	16				
Paper Birch	1	Pole/Log	9				
Balsam Fir	30	Pole/Sapling	5				
White Spruce	1	XLog	21				
Bigtooth Aspen	20	Log/Pole	12				
Red Maple	4	Pole	5				
Northern White Cedar	1	Log	16				
Quaking Aspen	40	Pole/Log	9	52			
Balsam Poplar	1	Pole	8				

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Low	< 5 feet	Seeding
Balsam Fir	Low	< 5 feet	Seeding

2026 YOE Notes: High quantity of downed dead wood as stand continues to thin itself. Windthrow and tip-ups common. Aspen and balsam fir size is variable throughout stand. Beaver activity in the northern portion of the stand; beavers are cutting down aspen. A wet, low area present in the middle of the stand. The edges along the wetlands have a significant slope and slightly different species mix with bigger diameters. May have found an American Bittersweet vine... no fruit on it, though.

2016 YOE Notes: -Quite a few small stems, let grow another ten years. -Scattered drainages and wet pockets throughout the stand that should be protected when a harvest is prescribed. -Other species that were present but rare included cedar, white pine, red pine, hemlock, basswood, and paper birch.

Found FTP Records from 1972 said: clearcut (except for white pine) in 1973 by prison crews for deer and elk., but then a conflicting document in 1976, appearing to have not been cut.

<b>43</b>	42290 - Natural Mixed Pine	Sawtimber Well	32.7	45	111-140	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Red Pine	45	XLog/Log/Pole	18	94			
Jack Pine	5	Log/Pole	10				
White Pine	50	Log/Pole/XLog	11	45			

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	Variable	Sapling
Autumn Olive	Medium	5 - 10 feet	Tall Shrub
Siberian Crab	Medium	5 - 10 feet	Tall Shrub
Black Cherry	Medium	Variable	Sapling
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
White Pine	Low	5 - 10 feet	Sapling
Japanese Barberry	Low	5 - 10 feet	Tall Shrub
Sugar Maple	Low	Variable	Sapling
Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub

2026 YOE Notes: This stand was originally planted, but over the years naturally seeded in; the stand was planted in 1932 2-0 red pine, 3-0 white pine and jack pine.

Most of the canopy trees have goofy form; appear somewhat open-grown, short, multi-stemmed, wiggly stems. Canopy trees in this stand were variable sizes and shapes. Some pockets of good quality red pine were present. Cored a 15" red pine; 49 years. Cored a 12.6" white pine; 45 years. Variable density in this stand (80 to 160). I felt that stand quality changed significantly enough to the east; separated stands.

2019 - A few areas of this stand were clearcut to convert them to non-forested stands, these areas were merged in with the adjacent G type, stand 35. The sale was Clark Bridge Mix, #53-002-16-01.

2016 YOE Notes: Multiple size classes of pine in this stand. Much of the larger white pine has significant weevil damage. Not much commercial value at this point. Hardwoods are more prevalent in the east half of the stand, with some very nice areas of basswood regeneration. Trace of red maple, elm, ash, and red oak in the overstory. Nice diversity of mast producing shrubs in the understory (Siberian crabapple, apple, and hawthorn). Autumn olive and Japanese barberry also scattered throughout. -There is an old railroad grade which runs north-south in the eastern half of the stand. Potential historical significance as there as is significant ditch next to the grade in areas. -Leave unmanaged for wildlife values.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>44</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	20.8	16	1-50	N/A	2026 YOE notes: Regen well-past browse height.																																																		
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<b>45</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	38.2	35	111-140	N/A	2026 YOE Notes: Pockets of larger pole/log aspen. Some super canopy red and white pines. BA average of 130.																																																																															
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Canopy Species	% Cover	Size Class	DBH	Age																																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**46** 42110 - Planted Red Pine Sawtimber Poor 34.2 92 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	XLog/Log	19	
Red Pine	98	XLog	21	92

Sub-Canopy Species	Density	Avg. Height	Size
Basswood	Trace	5 - 10 feet	Sapling
White Pine	Low	Variable	Pole
Balsam Fir	Low	>20 feet	Sapling
Sugar Maple	Low	>20 feet	Sapling
Balsam Poplar	Low	< 5 feet	Sapling
Black Cherry	Medium	Variable	Tall Shrub
Bracken Fern	High	Unspecified	Non-Wood
Beech	Medium	Variable	Sapling
Red Pine	Medium	< 5 feet	Seeding
Ironwood	Low	Variable	Sapling
Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Red Oak	Low	>20 feet	Sapling
Siberian Crab	Medium	< 5 feet	Tall Shrub
White Oak	Low	>20 feet	Sapling
Autumn Olive	Low	5 - 10 feet	Tall Shrub

2026 YOE Notes: Oak seedlings haven't been planted yet. Regen comes out to be 272 Trees per Acre of red/white pine, and 650 TPA of everything else. There are a handful of dead residual red pine, some of which are recently dead (last year or last few years). I couldn't make out a pattern of the dead; they did seem like they were in clusters, but it wasn't consistent. There are many patches of good red pine regeneration, but they appear to be random.

One of my plots just west of the grassy opening, I found a strange patch of white pine saplings (all 4 to 5ft tall) all dying; top leaders browning and working its way down, stunted needles and some chlorosis. UPDATE: took forest health team to check out death 3/14/2024; they believe it is due to armillaria fungus, which is a native fungus, but able to gain a foothold in the new stand after a few years of droughty conditions and potential shock from harvest, and the fact that it was most likely in the mature pines of the prior stand. Should not spread much further than it is now.

Extreme browse from deer or elk throughout.

2023 regen check update - Some red pine is seeding in along the heavily scarified skid trails, trace amounts of jack pine as well. New hardwood ingrowth appears to only be beech and ironwood at this time. Lots of non-native thistle and mullein. Grass/sedge has taken over some areas as well. Scattered mortality to the red pine residual but minor overall. Let this grow a few more years and then re-check the regen.

2019 - Stand cut in the fall of 2018 in the sale Clark Bridge Mix, #53-002-16-01. Bought by Hydrolake, cut by a Precision crew. Chip crew then came back in spring of 2019 to chip all of the tops. Average residual ba/acre = 20 square feet. Decent job on the sale, quite a bit of scarification took place. Some pockets of beech saplings left here and there but the majority of the regen was knocked down. Main skid trail heading down from the landing (stand 48 G type) to stand 35 was heavily compacted due to the large amount of chipping that was required. It essentially looks like a road now.

-Elk View East, #53-021-96-01, selection cut bought by Biewer. Most hardwoods were cut out at this time.

2016 YOE Notes: Most of the hardwood regeneration is undesirable. There are a few small pockets of sugar maple and basswood regen at the north end of the stand but not much to speak of overall. Trace of red and white oak saplings throughout.

Thinning in 1978 (53-010-78-01, CCC Jack Pine Block II, cut by Northern Timberland Inc) removed jack pine, white pine, misc hardwood, and yellow marked red pine



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**47**      6122 - Black Spruce      Poletimber Well      3.1      98      111-140      N/A

-This stand is quite wet  
-Trace of cedar, balsam fir, and paper birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	74	Pole/Log	8	98	Red Osier Dogwood	Medium	< 5 feet	Tall Shrub
Balsam Fir	2	Pole	7		Black Ash	Low	Variable	Sapling
Northern White Cedar	1	Log/Pole	15		Black Spruce	Low	Variable	Sapling
Paper Birch	1	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Red Maple	8	Pole	7					
Quaking Aspen	14	Pole/Log	9					

**48**      3105 - Mixed Upland Herbaceous      Nonstocked      2.1      Unspecified      No

Old well pad, plugged in 1986. Most recently used as a landing.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	High		Non-Wood
White Pine	Trace	< 5 feet	Sapling
Spotted Knapweed	Full		Non-Wood
Red Pine	Trace		Seeding

**49**      4134 - Aspen, Spruce/Fir      Sawtimber Well      4.0      52      51-80      N/A

2026 YOE Notes: Separated out from previously combined singular stand. Diameter of the aspen sharply and suddenly decreases, and canopy diversity is reduced to two main species. BA goes down, too.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole/Log	8	
White Spruce	5	XLog/Log	20	
Paper Birch	3	XLog	20	
Balsam Fir	20	Pole/Sap/Log	10	
Quaking Aspen	70	Log/Pole	10	52

2016 YOE Notes: -Very diverse stand. Trace of red pine, elm, white pine, and black ash. Several wet drainages and lowland pockets in the stand that should be protected if a harvest is prescribed. Browse sensitive and rare species should be left as well if a harvest is prescribed.  
-Stand was not harvested last entry due to an active RSH nest. Did not find the nest in the documented location, however a new un-documented nest tree was located in the west end of the stand.  
-Areas of heavy browse on the red maple and ash understory.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**50**      42110 - Planted Red Pine      Sawtimber Well      42.6      92      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	1	Pole	7	28
White Ash	1	Pole	6	
Red Pine	94	XLog/Log	20	92
White Pine	1	Log	14	
Red Oak	1	Log/Pole	10	
Paper Birch	1	Pole	6	
Quaking Aspen	1	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	>20 feet	Sapling
Paper Birch	Low	>20 feet	Sapling
Beech	High	>20 feet	Sapling
Ironwood	Medium	Variable	Sapling
White Oak	Low	>20 feet	Sapling
Siberian Crab	Low	5 - 10 feet	Tall Shrub
Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	Low	10 - 20 feet	Sapling
Red Maple	High	>20 feet	Sapling
Sugar Maple	Medium	>20 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling
Gray Dogwood	Low	5 - 10 feet	Tall Shrub
White Ash	Medium	>20 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Hazelnut (American)	Low	< 5 feet	Tall Shrub
White Spruce	Low	10 - 20 feet	Sapling

2026 YOE comments: Saplings (sub-canopy) not quite reaching canopy yet - almost. Next YOE they probably will be. The white ash is dying. Nice red pine snags for wildlife. Very dense, tall saplings of future merchantable species comprise the sub canopy. Sub canopy saps are pretty varied in their diameters. BA swings of 120, 110, 140. Stand was planted in 1931 with 2-0 red pine and jack pine, and 3-0 white pine.

Selection cut by AJD Forest Products in 1996-7; Clark/37 Pine Sale 53-007-96-01. Cut all merchantable trees except for red pine; the only red pine that can be harvested are those marked with orange.

2016 YOE comments: -Large red pine (res ba/acre = 88 sq. ft) last thinned in 1996. Doesn't appear to be a great hardwood site but nevertheless there is a thick understory of hardwoods (mostly undesirable) with a good representation of oak saplings. -There is a small inclusion of pole-sized aspen in the center of the stand (0.8 acres). -Other species that were present in the understory but rare included elm, BAM, sugar maple, white pine, white spruce, basswood, paper birch, and balsam fir.

**51**      4319 - Mixed Upland Forest      Sapling Medium      60.1      15      1-50      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Ironwood	1	Pole/Sapling	7	
Sugar Maple	17	Pole/Sap/Log	5	
White Pine	1	Sapling	4	
Red Maple	5	Pole/Log	9	
Paper Birch	1	Pole	6	
Beech	10	Pole/Sapling	6	
Red Pine	10	XLog	20	
Quaking Aspen	6	Sapling	1	
Balsam Poplar	1	Sapling	1	
Red Oak	2	Sapling	2	
White Pine	1	XLog	20	
Red Pine	40	Sapling	3	15
Black Cherry	1	Sapling	2	
Basswood	1	Log	12	
White Oak	3	Sapling/Pole	4	

2026 YOE Notes: Nicely regenerated stand, about 25ft tall and thick, with some super canopy red and white pine. The closed access rd running through the stand houses the majority of the balsam poplar; it's also full of rubus, queen anne's lace, spotted knapweed. Autumn olive, Siberian crab apple, and Japanese barberry can be found along this access rd as well. The northern portion of this stand leans more heavily to hardwoods; the hardwood regen is a little taller and larger diametered in this region, too.

-Last Time Red Pine, #53-003-06-01, bought by Northern Pressure Treated Wood. Stand was whole-tree skidded and a good amount of scarification took place. Red pine regen excellent mostly in the west 1/2 of stand, hardwood regen more prevalent in east 1/2 of stand.

-Regen survey 2013 - red pine tpa 870, red maple tpa 840, sugar maple tpa 600, red oak tpa 130, ironwood tpa 150, beech tpa 210, q aspen tpa 230, black cherry tpa 260, white ash tpa 80, basswood tpa 140. Trace of white pine, white oak, bfir, and bam.

-Heavy browse on maple and basswood.

Selection cut in 1997/1999 (Second Time Pine 53-014-96-01) by Maple Island Log Homes Inc; cut all merchantable aspen and hardwood and cut trees with orange paint.

Thinning in 1978 (53-010-78-01, CCC Jack Pine Block II, cut by Northern Timberland Inc) removed jack pine, white pine, misc hardwood, and yellow marked red pine



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																											
53	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	18.1	52	201+	N/A	2026 YOE: Wet, lowland mixed stand. Cedar with aspen, balsam fir. Cedar diameter is quite larger than other trees around it; cored two cedar trees (16" and 17"), but the centers of both were punky and I could only count about 51 years. I cored 10" balsam fir and counted 45 years. Cedar tip ups and down dead wood are common. Quite the variable diameters in species; slight shifts in composition through the stand.  Records from 1972 said (what would now be the west portion of this stand adjacent to stand 33): clearcut in 1973 by prison crews for deer and elk.																																																																											
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54	42110 - Planted Red Pine	Sawtimber Well	15.7	93	111-140	N/A	2026 YOE Notes: Japanese barberry and siberian crab present. Red maple in subcanopy is borderline sap/pole. BA swings were 180, 120, and 110; mostly XL red pine.  2016 YOE Notes: -Two-aged stand. All hardwoods must have been removed at some point in time. -Basal area becomes much higher in the NW corner of the stand. -Trace of paper birch and red oak in the understory. Trace of white pine in the overstory. -Balsam fir increases in abundance in the south finger of the stand.																																																																											
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55	6120 - Lowland Cedar	Sawtimber Well	7.7	99	201+	N/A	2026 YOE Notes: Some fir trees are dying/tipping over. Paper birch is also declining, age-related. Dark, muck soil. Standing water, grasses, and sedge increase as you get closer to the west. Massive stumps present.  2016 YOE Notes: -Adjacent to Cornwall Lake, no management. -Trace of white pine and hemlock.																																																																											
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56	6121 - Tamarack	Sapling Medium	3.2	11	Immature	N/A	Surprising amount of cedar regeneration above browse height. Massive blowdown regenerating to diverse lowland conifers; cannot be reached by deer or elk for browse. Tag alder, red osier dogwood also present in good numbers. A few creeks run through this stand; found tadpoles.																																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57	3105 - Mixed Upland Herbaceous	Nonstocked	1.1		Unspecified	No	2026 YOE Notes: I redrew stand size due to tree encroachment			
							2016 YOE Notes: -Filling in with white pine. -Hardwood overstory becomes common in the east end.			
							Sub-Canopy Species	Density	Avg. Height	Size
							Mixed Grasses	Full		Non-Wood
							White Pine	Trace		Log
							Red Pine	Trace		Seeding
							Wild Red Raspberry	Low		Tall Shrub
							Black Cherry	Trace		Tall Shrub
White Pine	Medium		Sapling							
Sugar Maple	Low		Log							

58	42110 - Planted Red Pine	Sawtimber Medium	77.1	92	51-80	N/A	2026 YOE comments: Very diverse regeneration in the sapling layer; good mix of conifer and deciduous regen. Thick pockets of red pine regen (over 20ft tall). Understory is heavily browsed. More aspen regen on south side of Clark Bridge Rd. BA swings of 80, 80, 20.								
							2016 YOE comments: -Last Time Red Pine, #53-003-06-01, bought by Northern Pressure Treated Wood. Sale was whole-tree harvested and quite a bit of scarification took place. Red pine regen looks good in many areas but there is heavy hardwood competition as well as a thick layer of raspberries/blackberries. Avg. ba/acre of overstory red pine around 20, marked heavier closer to Clark Bridge Road.								
							2016 YOE comments: -Regen survey in 2013 (RP MO) - red pine tpa 625, red maple tpa 875, paper birch tpa 208, q aspen tpa 225, sugar maple tpa 242, black cherry tpa 125, ironwood tpa 392, elm tpa 208, beech tpa 275, ash tpa 125, white pine tpa 83, basswood tpa 92, BAM tpa 25.								
							-Heavy browse damage on sugar maple, paper birch, and basswood which will likely prevent these species from reaching the overstory.								
							Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
							Jack Pine	1	Log	10		Ironwood	Low	5 - 10 feet	Sapling
							Red Oak	1	Log	12		Black Cherry	Medium	5 - 10 feet	Sapling
							Basswood	1	Log	15		Balsam Poplar	Low	5 - 10 feet	Sapling
							Sugar Maple	5	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
							Red Pine	85	XLog/Log	21	92	Dogwood (spp.)	Trace	5 - 10 feet	Tall Shrub
							White Pine	5	Log	15		Beech	High	5 - 10 feet	Sapling
							Red Maple	1	Log/Pole	10		Red Pine	Medium	>20 feet	Sapling
							Paper Birch	1	Log	10		Sugar Maple	High	>20 feet	Sapling
												Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
												White Pine	Medium	Variable	Sapling
												White Oak	Low	5 - 10 feet	Sapling
												Paper Birch	Low	10 - 20 feet	Sapling
												Red Maple	Low	10 - 20 feet	Sapling
					Apple (spp.)	Trace	5 - 10 feet	Sapling							
					Sedges	Medium	Unspecified	Non-Wood							





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59	6229 - Mixed lowland shrub	Nonstocked	22.5	0		No	2026 YOE Notes: Merged several P-type stands; these stands were forested during the prior inventory, but water level has since risen, killing off most of the trees that once populated these stands (quaking aspen, balsam poplar, black ash, elm, balsam fir). This stand is primarily full of dead standing aspen, cattails, and water-loving shrubs. Unsure why the water level rose to such levels; EAB and Dutch elm disease could cause loss of transpiration pump, creating a domino effect. Found Siberian crab apple and bittersweet nightshade (invasive plants). Royal fern, sensitive fern, various asters, (what I assume is) swamp milkweed, fireweed, and avens present. This stand was once forested, and even clearcut (sec 25) in 1971 Culvert in northmost part of stand was installed in 2006/2007; the old one was removed prior. 2016 YOE Notes: -Very wet stand. A drainage passes through the middle of this stand.-All black ash in stand has EAB.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Black Spruce	Low	>20 feet	Sapling
								White Spruce	Low	5 - 10 feet	Sapling
								Virgin's Bower	Low	5 - 10 feet	Vine
								Nannyberry	Medium	5 - 10 feet	Tall Shrub
								Michigan Holly	Low	5 - 10 feet	Tall Shrub
								Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
								Paper Birch	Low	>20 feet	Pole
								Goldenrod spp.	Medium	Unspecified	Non-Wood
								Siberian Crab	Low	5 - 10 feet	Tall Shrub
								Red Maple	Low	>20 feet	Pole
								Tag Alder	Medium	5 - 10 feet	Tall Shrub
Cattail spp.	Medium	Unspecified	Non-Wood								
Balsam Poplar	Low	Variable	Sapling								

60	622 - Lowland Shrub	Nonstocked	17.1	0	Unspecified	No	2026 YOE Notes: SE area of this stand was previous considered forested and separate (dominated by black ash and cedar), but due to canopy death, this stand is now classified as unforestred and combined with the adjacent shrub wetland. Regeneration of trees is minimal. Cedar seedlings are regenerating on logs, but not many. 2016 YOE Notes: - Poor quality cedar that is declining in some areas. Scattered inclusions of black ash that appears to be dead from EAB.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Cattail spp.	Low	Unspecified	Non-Wood
								Willow spp.	Medium	5 - 10 feet	Sapling
								Tag Alder	High	5 - 10 feet	Tall Shrub
								Northern White Cedar	Low	5 - 10 feet	Sapling
								Balsam Fir	Low	5 - 10 feet	Sapling
Michigan Holly	Medium	5 - 10 feet	Tall Shrub								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
<b>61</b>	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	33.8	92	111-140	N/A	<p>2026 YOE comments: Borderline two-aged; the maples, oaks, etc are just touching the lower canopy of the super canopy position red pine. Either way, the deciduous species in the canopy are still tall and high density. The beech in this stand is either in the understory or just underneath the canopy maples and oaks. There is some natural red pine and white pine regeneration of seedlings, but this only occurs in the skid trails from the recent thinning a few years ago. The skid trails are regenerating to pine, beech, and rubus. BA swings of 110, 140, and 120; all XL red pine. Stand was planted in 1931 with 2-0 red pine and jack pine.</p> <p>2019 - Stand thinned in the winter of 2018 in the sale Clark Bridge Mix, #53-002-16-01. Bought by Hydrolake, cut by a Precision crew. Nice job on this stand, residual damage minimal. Average residual ba/acre = 87 square feet.</p> <p>-Manage this stand for big trees and on an extended rotation due to travel influence. -Most of the understory white ash, including saplings, appear to have EAB. -Trace of elm, basswood, red oak, white pine, and paper birch in the hardwood understory.</p> <p>Selection cut in 1997 (Second Time Pine 53-014-96-01) by Maple Island Log Homes Inc; cut all merchantable aspen and hardwood and cut trees with orange paint.</p>																																																																				
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<b>62</b>	6123 - Lowland Fir	Sapling Poor	4.5	27	Immature	N/A	<p>2026 YOE Notes: Stand is dominated by Siberian crab apple; some trees have made it past the crab apple fortress. 2016 YOE Notes: -#53-021-96-01, Elk View East, bought by Biewer, all species clearcut, except cedar.-Browsing has eliminated all aspen except for one clump in the center of the stand. Heavy browse pressure on the red maple and ash regeneration as well.-The apple species listed in the understory is Siberian crabapple. With the heavy component of crabapple, this stand serves well as a U type.-Trace of sugar maple, balsam fir, red oak, and white oak regen. Trace of residual cedar in the overstory.</p>																																																																				
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<b>63</b>	4134 - Aspen, Spruce/Fir	Sawtimber Well	4.1	52	51-80	N/A	<p>2026 YOE Notes: Separated out from previously combined singular stand. Diameter of the aspen sharply and suddenly decreases, and canopy diversity is reduced to two main species. BA goes down, too.2016 YOE Notes: -Very diverse stand. Trace of red pine, elm, white pine, and black ash. Several wet drainages and lowland pockets in the stand that should be protected if a harvest is prescribed. Browse sensitive and rare species should be left as well if a harvest is prescribed.-Stand was not harvested last entry due to an active RSH nest. Did not find the nest in the documented location, however a new undocumented nest tree was located in the west end of the stand.-Areas of heavy browse on the red maple and ash understory.</p>																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**64** 42110 - Planted Red Pine Sawtimber Poor 46.9 92 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	1	Log	10	
Sugar Maple	1	Log	13	
Red Pine	97	XLog/Log/Pole	21	92
White Pine	1	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	< 5 feet	Seeding
Cherry (spp.)	Trace	5 - 10 feet	Sapling
Red Pine	Medium	< 5 feet	Seeding
Balsam Fir	Low	< 5 feet	Sapling
Bracken Fern	High	Unspecified	Non-Wood
White Oak	Low	< 5 feet	Sapling
Blackberry/Raspberry	Full	5 - 10 feet	Tall Shrub
Red Oak	Low	>20 feet	Pole
Beech	Medium	< 5 feet	Sapling
Red Maple	Low	>20 feet	Pole
Red Pine	Medium	>20 feet	Sapling

2026 YOE comments: 11 circular 1/100th acre natural regen plots in the east treatment (covered the east half of the stand, 21 acres), got 727 TPA red pine seedlings, about 1' tall. 11 circular 1/100th acre natural regen plots in the west treatment (covered the west half of the stand, 21 acres), got 672 TPA red pine seedlings, about 1' tall. There is a chance that these TPA numbers for red pine were low; even though the snow depth is minimal, it's the icy, heavy, melted-then-frozen sheet that traps seedlings underneath. The seedlings in the east treatment seem more focused in the haul routes/skid trails/old trails compared to the seedlings on the west treatment that are more randomly distributed. The browse pressure is intense; I struggled to find anything deciduous (including rubus) that hadn't been browsed. Regardless of browse pressure, a few stump sprouted white oaks made it above the browse line. The thickness of the rubus is also intense; seems thicker or healthier in the east unit that was burned. Stand was planted in 1931 with 2-0 red pine and jack pine.

2016 YOE comments:- Recently completed harvest, Colossal Pine (#53-033-15-01), bought by Biewer. East unit of sale had a pre-harvest prescribed burn (FTP# C53-458). Conditions were not great and the burn was ended early. Sale was a whole-tree harvest job, excellent scarification throughout. Pockets of existing red pine regeneration were protected reasonably well. Post-harvest average ba/acre = 28 square feet.

A couple of small experimental prescribed burns were also conducted in the stand in the 1980's which resulted in a few pockets of nice red pine regeneration, however these are limited.

**65** 3105 - Mixed Upland Herbaceous Nonstocked 2.6 No

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Full		Non-Wood
Red Pine	Low	Unspecified	Seeding

Old well pad, plugged in 1987.

Grasses, spotted knapweed, st john's wort, yarrow



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**66**      4319 - Mixed Upland Forest      Sawtimber Well      15.3      92      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Beech	2	Pole/Sapling	5	
Red Oak	2	Pole	8	
Red Pine	34	Pole	5	35
Black Cherry	1	Pole/Sapling	5	
Sugar Maple	2	Sapling/Pole	4	
White Oak	2	Pole	8	
Red Pine	54	XLog	22	92
Red Maple	1	Log	12	
White Pine	1	Log	10	
Ironwood	1	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	< 5 feet	Seeding
Beech	Medium	< 5 feet	Seeding
Ironwood	Low	< 5 feet	Seeding
Balsam Fir	Low	< 5 feet	Seeding
Siberian Crab	Trace	5 - 10 feet	Tall Shrub
Sugar Maple	Low	< 5 feet	Seeding
Serviceberry (Juneberry)	Trace	5 - 10 feet	Sapling
White Ash	Medium	< 5 feet	Seeding

2026 YOE notes: This stand is now a red pine super canopy with dense poles and saplings underneath. Almost all saplings/poles reach into the canopy. Most hardwood saplings are of stump sprout origin, but not any of the oaks. Most of the canopy is borderline pole/sap. By next inventory cycle they are all likely to fall in the pole class. The canopy red pine (not the super canopy XL red pine) is of varying sizes. Found one 29.5" diameter super canopy red pine with fire scars, huge limbs, platey bark. My increment borer could not reach to the center, but the tree is at least 89 years old and during those last 89 years experienced good, even growth. More of the canopy is hardwoods near the trail to the west and in the NE corner. BA swings of 170 and 130, with 30 BA of each being XL RP. Very nice topography in the east as well. Planted in 1931.

2016 YOE notes: -Fire Study Pine, #53-031-88-01, Walker Sawmill. Stand was burned and then thinned heavily. Excellent red pine regeneration in most of the stand. NE 1/4 of stand is only area where red pine regen didn't do well, mostly hardwoods in this area. Some nice red and white oak poles in the understory as well.  
-Most of the regen is free to grow. Harvesting this stand while at the same time protecting the RP regen would be difficult due to the size of the overstory RP.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**67**      4110 - Sugar Maple Association      Sawtimber Well      28.5      103      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	3	XLog/Log	20	
Red Maple	1	Log	14	
Sugar Maple	70	Log/XLog/Pole	16	103
Bigtooth Aspen	1	Log	15	
Basswood	18	XLog	24	
Beech	5	XLog	22	
Yellow Birch	1	Log	12	
Paper Birch	1	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	>20 feet	Pole
Beech	Full	Variable	Sapling
Sugar Maple	Full	< 5 feet	Seeding
Basswood	Low	< 5 feet	Sapling
White Ash	Low	5 - 10 feet	Sapling
Ironwood	High	Variable	Sapling
Basswood	High	< 5 feet	Seeding
Black Cherry	Low	10 - 20 feet	Sapling
Hemlock	Low	>20 feet	Log

2026 YOE Notes: Most of the area south of the access rd has good quality sugar maple and basswood; about 85% of the sugar maple in the canopy are at least 16" dbh, around 72' tall.

The ground is covered in 4" to 6" sugar maple seedlings, and slightly taller basswood seedlings/saplings are common as well. Unfortunately, browse is a major issue in this stand; just about every seedling over 2' is browsed.

Basal area swings of 140, 90, 140, 120

Low-lying area has been delineated with a site condition; slightly different timber mix present in this: black ash saplings and stressed, small diameter trees (basswood, yellow birch, sugar maple). Standing water and/or seasonally wet area with grasses and sedges.

I divided this stand in half from its previous extent, along the line where timber quality significantly changes. This is the north half of the previously larger stand.

2016 YOE Notes: -The north and west parts of the stand were recently thinned, a lot of volume was removed. The south/southeast portions of this stand were included in the 3C Red Pine sale and had all red pine removed. These areas have a low residual ba/acre with primarily small sugar maple, white ash, and ironwood. Dense raspberry, ironwood, and white ash dominate regeneration in low ba areas, with sugar maple and basswood regen being present occasionally but browsed heavily.  
-North/northwest finger of stand has a wet drainage with small inclusions of cedar and lowland hardwoods.  
-Trace of red maple, yellow birch, paper birch, hemlock, beech, and aspen.

Hardwood thinning in the northern third of the stand in 1976



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																								
<b>68</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	246.2	16	1-50	N/A	<p>2026 YOE Notes: Great red pine regen along north boundary and throughout. Fully stocked stand, impressive, tall regen; most of it is well above 10ft. A few scattered super canopy trees remain, less than 10BA. Northeast corner of the stand is a little different from the majority of the stand; much higher proportion of red pine saplings, and the saplings are a bit taller, too. 3 acre log-sized red pine inclusion in southeast. Noticed some red pine pocket death on the north side of the two track in the northern portion of the stand.</p> <p>UPDATE: took forest health team to check out death 3/14/2024; they believe it is due to armillaria fungus, which is a native fungus, but able to gain a foothold in the new stand after a few years of droughty conditions, and the fact that it was most likely in the mature pines of the prior stand. Should not spread much further than it is now.</p> <p>2016 YOE Notes: -3C Red Pine, #53-006-06-01, bought by Precision. Old prescription (53-020-86-01, No Oil Pine Poles, cut by Hydrolake Leasing and Service Co) said a seed tree but it was essentially a clearcut. Residual red pine scattered every hundred feet or so, and all residual hardwoods were left. Sale sold for \$1,049,136, previous thinning in 1986 sold for \$127,580.</p> <p>-Toss up between a forested or non-forested stand at this point. Regen is patchy and overall does not meet either the RP or northern hardwood minimum stocking levels. Browsing is impacting sugar maple, basswood, oak, and birch regen success.</p> <p>-Heavy raspberry/blackberry component.</p> <p>-Regen survey results (total tpa = 1545) - red pine tpa 242, sugar maple tpa 383, red maple tpa 202, ironwood tpa 275, beech tpa 163, white ash tpa 58, bc tpa 133, BAM tpa 19, white oak tpa 4, basswood tpa 33, bfir tpa 21. Trace of quaking aspen, white pine, white spruce, and paper birch (all less than 5 tpa).</p>																																																																																								
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<b>69</b>	6112 - Lowland Aspen	Poletimber Well	42.5	45	111-140	N/A	<p>2026 YOE comments: Looked at in snow off in April: small pools throughout; pit and mound topography. Some larger pools present. Wet area within stand boundaries has greatly expanded since last inventory 10 years prior. Wet throughout. Mature timber (with sensitive fern, red maple, and/or black ash saplings understory) surrounds strip of open water with cattails, rushes, spirea, tag alder, and winterberry. Balsam fir and cedar on transition from forested to non-forested lowland areas. Borderline pole/log. Aspen diameter varies widely for something that was clearcut. Invasive crabapple present throughout, but not in large numbers. BA swings of 110, 130. 2016 YOE comments: -#53-34-76-01, aspen clearcut bought by Champion International. -Wait another ten years due to green-up issues with the adjacent stand to the west that was recently harvested. -Wet drainage runs through the stand as well as several lowland pockets (see 98 DOQ). These should be protected when a harvest is prescribed. -Trace of elm, red pine, white spruce, yellow birch, basswood, paper birch, and sugar maple.</p>																																																																																								
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<b>70</b>	3105 - Mixed Upland Herbaceous	Nonstocked	1.9		Unspecified	No	Old well pad, plugged in 1988.																																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>71</b>	42140 - Planted Mixed Pine	Sawtimber Medium	4.9	93	1-50	N/A	Sparse overstory, primarily white pine has filled in, although there are a few spots of nice red pine regeneration.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		56	XLog/Log	19	93	White Pine		High	Variable	Sapling	
White Spruce		2	Log/Pole	10		Red Pine		Low	Variable	Sapling	
White Pine		42	XLog/Log	20							

<b>72</b>	4319 - Mixed Upland Forest	Sawtimber Well	5.4	85	111-140	N/A	2026 YOE Notes: I split a large stand into smaller stands based on changes in overstory composition. Quite a bit of red pine log-sized trees, but not the best form from what I'm used to seeing in this compartment; many had multiple main leaders. Cored a 21.5" dbh red pine and it read 85 years.  2016 YOE Notes: -Very diverse stand. Trace of red pine, elm, white pine, and black ash. Several wet drainages and lowland pockets in the stand that should be protected if a harvest is prescribed. Browse sensitive and rare species should be left as well if a harvest is prescribed. -Stand was not harvested last entry due to an active RSH nest. Did not find the nest in the documented location, however a new un-documented nest tree was located in the west end of the stand. -Areas of heavy browse on the red maple and ash understory.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		1	Log	12		Red Maple		Medium	>20 feet	Sapling	
White Spruce		10	Log	17		Beech		Medium	Variable	Sapling	
Bigtooth Aspen		3	Log	13		Balsam Fir		Medium	Variable	Sapling	
Red Pine		40	Log/Pole/XLog	15	85	Balsam Fir		Medium	>20 feet	Pole	
Quaking Aspen		10	XLog/Log/Pole	20							
Red Maple		25	Pole/Log	8							
Black Cherry		1	Pole	8							
Paper Birch		10	Log/Pole	10							

<b>73</b>	4130 - Aspen	Sapling Well	48.3	5	Immature	N/A	2026 YOE Notes: Stand regenerated really well; avg height of aspen saplings are 8 to 10ft. A few pockets of wet; have rushes and small amounts of standing water. The only place regeneration wasn't great was the main skid trail, but that is slowly filling in with seedlings. 2019 - Stand cut in the winter of 2018-19 as part of the sale Old Grade Aspen, #53-001-16-01, bought and cut by Hincka. Whole-tree flail harvest. Good job on the sale, two small instances of rutting on the east side near the narrow finger of the cedar stand, were fixed moderately well. Main skid trails heavily compacted due to the large amount of skidding necessary. No red pine, white pine, oak, birch, cedar, elm, or hemlock were cut, only trace amounts of these were present to begin with. A few clumps of residual trees left as well as retention pockets and excluded wet areas.-Varying site quality throughout. South of the road grades down toward the adjacent lowland swamp and generally has smaller diameters. North of the road has larger diameters. -A few wetland depressions are scattered throughout. A wet drainage is also present in the east side adjacent to the small cedar stand.-A couple small pockets of pine near the northern border of the stand.-Trace of red pine, cedar, paper birch, white ash, sugar maple, ironwood, red oak, white spruce, and black cherry.				
Canopy Species		% Cover	Size Class	DBH	Age						
Red Oak		1	Sapling	3							
Balsam Fir		1	Sapling/Pole	5							
White Pine		1	Pole/Sapling	5							
Quaking Aspen		1	Log	10							
Red Pine		1	Pole/Sapling	5							
Black Cherry		1	Pole/Sapling	6							
White Spruce		1	Pole	8							
Quaking Aspen		93	Sapling	1	5						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**75** 4112 - Maple, Beech, Cherry Association Sawtimber Well 6.3 85 141-170 N/A -Wet ground along the south edge of the stand. Heavy deer use.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	1	Pole/Log	9		Beech	High	Variable	Sapling
Quaking Aspen	5	XLog	21		White Pine	Low	5 - 10 feet	Sapling
White Spruce	1	Log	15		Balsam Fir	Medium	>20 feet	Pole
Northern White Cedar	1	Log	16		Northern White Cedar	Low	>20 feet	Pole
Red Maple	85	Log/Pole/XLog	12	85	Red Maple	Medium	Variable	Sapling
Sugar Maple	7	Pole	8		Balsam Fir	Medium	Variable	Sapling

**77** 6118 - Lowland Deciduous with Cedar Sawtimber Well 15.8 93 171-200 N/A 2026 YOE Notes: Standing water everywhere. Varying sizes among red maple and cedar. Stream running through.2016 YOE Notes: -Very wet stand.-Trace of paper birch and black ash.-Some nice pockets of yellow birch saplings.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	1	Log/Pole	15		Balsam Fir	Low	>20 feet	Sapling
Red Maple	54	Log/Pole	12	93	Tag Alder	Low	Variable	Tall Shrub
Basswood	1	XLog/Log/Pole	20					
Quaking Aspen	5	Log/Pole	13					
Balsam Fir	3	Log	11					
Northern White Cedar	35	Log/Pole/XLog	12	120				
Paper Birch	1	Pole	6					

**78** 4130 - Aspen Sawtimber Well 15.6 69 111-140 N/A 2026 YOE Notes: I divided up the one large stand into a few smaller ones where there was a noticeable change in overstory composition. Dead white ash poles. North pocket of red osier dogwood and cedar, low BA. North portion of the stand has sugar maple saplings under the aspen. East half of stand has fully stocked understory of 20ft+ tall saplings. More balsam fir pops up in the understory as you get to the east/southeast portion of the stand. BA swings of 120, 110, 120  
2016 YOE Notes: -Very diverse stand. Trace of red pine, elm, white pine, and black ash. Several wet drainages and lowland pockets in the stand that should be protected if a harvest is prescribed. Browse sensitive and rare species should be left as well if a harvest is prescribed. -Stand was not harvested last entry due to an active RSH nest. Did not find the nest in the documented location, however a new un-documented nest tree was located in the west end of the stand. -Areas of heavy browse on the red maple and ash understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	XLog/Log	20		Northern White Cedar	Low	10 - 20 feet	Pole
Paper Birch	8	Log/Pole	12		Sugar Maple	Low	>20 feet	Sapling
Basswood	10	XLog/Log	20		Beech	Medium	5 - 10 feet	Sapling
White Spruce	1	Log/XLog	15		Balsam Fir	Low	>20 feet	Pole
Red Maple	5	Log/Pole/XLog	14		Basswood	Medium	< 5 feet	Seeding
Sugar Maple	5	Log/XLog/Pole	14		Sugar Maple	Low	< 5 feet	Seeding
Quaking Aspen	66	Log/XLog	17	69	White Ash	High	< 5 feet	Seeding
					Ironwood	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79	31022 - Warm Season Grass	Nonstocked	19.2		Unspecified	No	2026 YOE notes: the majority of this field is covered in little bluestem. I did see some bee balm as well. The narrow northwest finger of this stand is likely to convert to forested due to the recent adjacent aspen harvest.2016 YOE Notes: -Jack and red pine seeding in along the northern edge of the stand.-The central part of this stand was burned at one point. The plow line is still visible.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Jack Pine	Trace		Sapling
								Jack Pine	Trace		Log
								Siberian Crab	Low	5 - 10 feet	Tall Shrub
								Black Cherry	Trace		Tall Shrub
								Red Pine	Trace		Sapling
								Little Bluestem	Full	Unspecified	Non-Wood
Red Pine	Trace		Log								
Spotted Knapweed	Medium	Unspecified	Non-Wood								

81	6120 - Lowland Cedar	Sawtimber Well	66.7	95	201+	N/A	2026 YOE Notes: stand fluctuates between cedar swamp and black spruce swamp with sphagnum hummocks. A stream runs through the stand. More deciduous trees present on edges of stand and access rd. Borderline pole/log  2016 YOE Notes: -Mediocre cedar with quite a few small stems. Quality is best near the northern perimeter. -Some very wet pockets scattered throughout the stand, not many places that would be operable. -A stream is present in the SE part of the stand.  Found FTP 1971 saying emergency strip cutting proposed just north of the access road					
								Canopy Species	% Cover	Size Class	DBH	Age
								Balsam Fir	2	Pole/Log/Sap	7	
								Quaking Aspen	5	XLog/Log	18	
								Hemlock	1	Log/Pole	10	
								Red Maple	2	Log/Pole	10	
								Paper Birch	1	Pole	8	
								Black Spruce	30	Pole/Log/XLog	9	
								White Pine	9	XLog	25	
								Northern White Cedar	50	Log/Pole/XLog	12	95

82	4130 - Aspen	Sapling Well	40.0	5	Immature	N/A	2026 YOE Notes: Stand regenerated really well; avg height of aspen saplings are 8 to 10ft. A few pockets of wet; have rushes and small amounts of standing water. The two access roads that ran through this stand previously are completely filled in with saplings and essentially non-existent. The saplings are even filling in the edges of some of the smaller wildlife openings.2019 - Stand cut in the winter of 2018-19 as part of the sale Old Grade Aspen, #53-001-16-01, bought and cut by Hincka. Whole-tree flail harvest. Good job on the sale, no instances of rutting in this stand. Main skid trails heavily compacted due to the large amount of skidding necessary. No red pine, white pine, oak, birch, cedar, elm, or hemlock were cut, only trace amounts of these were present to begin with. A few clumps of residual trees left as well as retention pockets around wet areas.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Spruce	1	Pole	8	
								Black Cherry	1	Pole	6	
								Red Oak	1	Sapling	3	
								Quaking Aspen	93	Sapling	1	5
								Red Pine	1	Pole/Sapling	5	
								White Pine	1	Pole/Sapling	5	
								Balsam Fir	1	Sapling/Pole	5	
								Quaking Aspen	1	Log	10	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**84** 4130 - Aspen Poletimber Well 6.2 35 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole	8	
Red Maple	6	Pole	7	
Quaking Aspen	70	Pole/Sap/Log	7	35
Balsam Fir	14	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	Variable	Sapling
White Ash	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

2026 YOE Notes: The north half of this stand was its own stand previously (-#53-003-88-01, bought by Ken Boughner, clearcut). I combined this with the adjacent area that was mostly poles and saplings.

There are a few wet drainages running through the NE corner, running east southeast.

2016 YOE Notes: -Very diverse stand. Trace of red pine, elm, white pine, and black ash. Several wet drainages and lowland pockets in the stand that should be protected if a harvest is prescribed. Browse sensitive and rare species should be left as well if a harvest is prescribed.

-Stand was not harvested last entry due to an active RSH nest. Did not find the nest in the documented location, however a new un-documented nest tree was located in the west end of the stand.

-Areas of heavy browse on the red maple and ash understory.

**85** 3105 - Mixed Upland Herbaceous Nonstocked 0.8 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low		Tall Shrub
Mixed Grasses	Full		Non-Wood
White Spruce	Trace		Sapling

**86** 4139 - Aspen, Mixed Deciduous Sawtimber Well 11.9 75 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	1	Pole	7	
Quaking Aspen	37	XLog/Log	20	75
Basswood	1	Log	11	
Sugar Maple	5	Pole/Log	8	
Red Maple	50	Log/Pole/Sap	10	70
Bigtooth Aspen	5	XLog/Log	18	
Paper Birch	1	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	< 5 feet	Seeding
Ironwood	High	Variable	Sapling
Sugar Maple	Medium	>20 feet	Sapling
Balsam Fir	Low	< 5 feet	Seeding
Sugar Maple	Low	>20 feet	Pole
Sugar Maple	Low	< 5 feet	Seeding
Beech	Full	Variable	Sapling
White Spruce	Low	5 - 10 feet	Sapling
Striped Maple	Low	5 - 10 feet	Sapling
Black Ash	Medium	5 - 10 feet	Sapling

2026 YOE Notes: Transitional stand from northern hardwoods to conifer swamp; extreme slope. The aspen are significantly larger in size than other trees in this stand, and they are declining. Scattered dead ash. Lots of downed dead wood. Sugar maple poles and sap in subcanopy are not doing well; top dieback. Cored an 11" red maple, got 70 years. Cored a 21" quaking aspen, got 75 years. The aspen I cored was one of the few that size that didn't have exterior signs of rot, but the inner 2" of core was significantly softer. BA swings of 120, 90, and 120.

Clearcut in 1967 per FTP (clearcut everything less than 10" dbh within boundary, except, cut all aspen), but based on what's currently on the landscape, I don't think that happened.

2016 YOE Notes: -Two-aged stand of variable sizes. SE1/2 of stand is mostly lowland dominated by large aspen, red maple, and fir. NW1/2 of stand is more upland and has a large component of pole-sized aspen and hardwoods, with scattered mature aspen, fir, and red maple.

-Larger aspen and fir is starting to fall over creating good structure.  
-Stand could have been cut with adjacent stand to the west in Comp 17 when it was cut in 2013 but that window has now closed.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments													
87	6239 - Mixed Emergent Wetland	Nonstocked	39.5		Unspecified	No	2026 YOE Notes: Little McMasters Creek runs through this stand, flows north. The middle part of the stand that looks like a pond on aerial infrared isn't as flooded as it looks; the stream widens a bit, ground cover changes to short rushes. Several beaver dams present in the middle. Area around middle of stand is covered in dead cedar.													
								Sub-Canopy Species	Density	Avg. Height	Size									
								Paper Birch	Trace		Sapling									
								Alder	Low		Tall Shrub									
								Northern White Cedar	Trace		Pole									
								Spiraea spp.	Low	5 - 10 feet	Tall Shrub									
								Willow spp.	Trace		Tall Shrub									
								White Spruce	Trace		Sapling									
								White Pine	Trace		Sapling									
								Tamarack	Trace		Sapling									
								Cattail spp.	Medium	Unspecified	Non-Wood									
								Sedges	Full		Non-Wood									
								Balsam Fir	Trace		Sapling									
91	6233 - Wet Meadow	Nonstocked	19.4		Unspecified	No	2026 YOE Notes: Sedge marsh with golden rod, tag alder, and willow. Some seedlings (cedar, balsam fir) at the edges. There is a foot-traffic access (beaver dam? old railroad grade? old road?) path that runs along the east boundary of the stand. Entire area to the west of this foot trail is full old, cut cedar stumps from a salvage cut. 2016 YOE notes: This used to be a cedar stand but was salvaged after being flooded by beavers. Timber sale was 2 County Cedar, #53-011-94-01, bought by Van Alstine. Cut over the years of 1994-96. A stream flows through the southwest corner of the stand. The site is still very wet but is not dammed by beavers at this time.													
								Sub-Canopy Species	Density	Avg. Height	Size									
								Northern White Cedar	Trace	5 - 10 feet	Sapling									
								Balsam Fir	Trace		Sapling									
								Quaking Aspen	Trace	Unspecified	Sapling									
								Willow spp.	Low	Unspecified	Sapling									
								Tag Alder	Trace	5 - 10 feet	Tall Shrub									
								Sedges	Full		Non-Wood									
Cattail spp.	Trace	Unspecified	Non-Wood																	
95	42110 - Planted Red Pine	Sawtimber Well	34.3	92	111-140	N/A	2026 YOE comments: Very nice red pine in canopy; small red pine natural regen pocket in middle of stand. Red pine are clumped together, leaving gaps for the deciduous understory. Trace beech in canopy. BA swings of 110, 140, 120.  2016 YOE comments: -Two-aged stand. Stand was broken into smaller units and thinned throughout the late 1970's and early 1980's. A couple of small experimental prescribed burns were also conducted in the stand which resulted in a few pockets of nice red pine regeneration, however these are limited. -Trace of red oak, white oak, balsam fir, basswood, and paper birch in the understory. Trace of basswood and sugar maple in the overstory.													
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size				
								Red Pine	95	XLog	22	92	Red Maple	High	>20 feet	Sapling				
								White Pine	1	XLog/Log	19		Basswood	Low	Variable	Sapling				
								Sugar Maple	1	Log/Pole	12		Balsam Fir	Low	>20 feet	Sapling				
								Red Maple	1	Log/Pole	11		Paper Birch	Low	10 - 20 feet	Sapling				
								Balsam Fir	1	Pole/Log	8		Red Oak	Low	>20 feet	Sapling				
								Basswood	1	Log	14		Beech	Medium	Variable	Sapling				
													Ironwood	Low	Variable	Sapling				
								99	6123 - Lowland Fir	Poletimber Medium	8.6	30	81-110	N/A	2026 YOE Notes: Changed stand from unforested to forested; the cedar in this area was not harvested when the salvage occurred. Most of the cedar is dead, some are just hanging on. However, there is a fully stocked, short stand of balsam fir and spruce coming in under the dead standing cedar. 2016 YOE Notes: Looking at old imagery it appears this stand used to have aspen in it. I'm guessing the beavers removed it long ago when they flooded stand 91.					
																Canopy Species	% Cover	Size Class	DBH	Age
																Northern White Cedar	5	Log/Pole	13	
																Black Spruce	2	Pole	5	
								Balsam Fir	93	Pole/Sap/Log	5	30								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**101**      6130 - Fir, Aspen, Maple      Poletimber Well      7.8      47      111-140      N/A

I combined several transition-zone stands.2016 YOE Notes: This small area was originally part of adjacent stand 89 but was excluded from the clearcut Old Grade Aspen because the ground is too wet here.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	45	Pole/Sapling	6	47
White Spruce	5	Log/Pole	10	
Balsam Fir	35	Pole/Sapling	5	
Northern White Cedar	10	Log/Pole/XLog	15	120
Red Maple	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Full	Variable	Sapling