



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53003

Entry Year 2024

Acreage: 2,083

County Cheboygan

Management Area: Pigeon River Country

Stand Examiner: John St. Pierre

Legal Description:

T34N - R01W, eastern portions of Section 16 (~154 acres) and all of Sections 21, 28 & 33.

Identified Planning Goals:

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

Soil and topography:

Flat to gently rolling topography is most common, with a few areas featuring briefly steeper slopes. The compartment offers a mixture of upland and lowland forested and non-forested covertypes. Upland soils are characterized primarily by sands and loamy sands. The highest percentages can be found in Rubicon sands, Croswell sands, Kalkaska sands, Au Gres sands, Cheboygan loamy sands, Blue Lake loamy sands and Emmett loamy sands, respectively. Lowland soils are primarily Tawas peat, Lupton muck, Roscommon muck, Bowstring muck and Brevort muck.

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

Private ownership interfaces with State owned land in the northern portions of this compartment, in Section 16. Solid State ownership is found against the remaining three sections.

State land located in Section 16 formally belonged Gaylord Forest Management Unit (FMU) Compartment 182. These lands were 'absorbed' into the Pigeon River Country Forest Management Unit (FMU) in late 2020. The 'absorbed' portion totaled about 154 acres, all of which is located south of Walker Road. A boundary review of state-owned lands concluded this would simplify management responsibilities between the surrounding forest management units (Gaylord, Atlanta and Pigeon River).

Unique Natural Features:

Lake Sixteen bog ecological reference area (ERA) is present within Compartment 3 (Stand 13). The bog complex itself is nearly twelve acres in size and is equally split between sections 16 and 21. This ERA is an example of a bog natural community. Bog is a nutrient-poor peatland characterized by acidic, saturated peat and the prevalence of sphagnum mosses and ericaceous shrubs. Fire and flooding are the main natural disturbance factors. Bogs are common throughout this part of the Northern Lower Peninsula of Michigan.

Michigan Natural Features Inventory (MNFI) staff surveyed the Lake Sixteen bog in 2006 and made some of the following observations: "Very high-quality and diverse undisturbed bog in a circular kettle depression and ranges from open bog to treed bog surrounding an alkaline lake. The bog includes both areas of grounded bog mat and floating bog mat adjacent to the lake. Areas of grounded bog mat have deep (>1 m), acidic (pH 4.0-6.0), fibric, sphagnum peat with the water table at 30 centimeters. The floating bog mat adjacent to the lake is characterized by saturated fibric peat that is slightly acidic to circumneutral (pH 6.5-7.0). Several deer trails pass through the bog and cause sphagnum mat compaction and thereby linearly raise the water table. No artificial disturbances or exotic species noted. Surrounded by very wet, hummocky mixed conifer swamp."

Archeological, Historical, and Cultural Features:

No known archeological, historical and cultural features present at this time.

Special Management Designations or Considerations:

Some special management considerations have been implemented in areas with recent and/or current beaver activity. Specifically, some proposed harvests have been built in a way that avoids areas of known or recent activity. The purpose of these exclusions is to lessen the likely hood of future beaver damming against static and flowing water features located within this compartment. These considerations were made in conjunction with DNR Fisheries biologists.

Watershed and Fisheries Considerations:

Headwaters of McIntosh Creek begin in this compartment which is a tributary to the Pigeon River. The Pigeon River is a legally designated Natural River. Also, numerous drainages and likely vernal pond complexes are present throughout the compartment. Special considerations have been implemented to exclude sensitive water features and soil conditions from proposed harvesting activities.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 200 feet. Beneath the glacial drift is the Devonian Antrim Shale and Traverse Group, quarried for clay/shale, cement products and stone elsewhere in the State. Limestone quarries are located four miles to the northwest. The nearest gravel pit is four miles to the northeast, and there should be some potential on the upland areas. This area was previously leased for oil and gas development. The Antrim Shale subcrops in this area and the Niagaran trend lies to the south and east. There could be potential for the Collingwood/Utica Shale in this compartment.

Vehicle Access:

Vehicle access is not easily accomplished within Compartment 3. Many of the forest roads present have segments that travel through lowland cover types. As such, numerous portions of these forest roads are impassable due to muddy and/or washout conditions. The increased prevalence of ORV and side-by-side traffic has further degraded the condition of several forest roads. The most degraded and impassable portions were documented during forest inventory. These locations will be addressed over the next several years, either during harvest operations and/or with department resources.

Survey Needs:

Currently, no survey needs are necessary.

Recreational Facilities and Opportunities:

The High Country Pathway passes through section 33. The Shore to Shore Trail, an equestrian trail, travels down Roads 2 and 3 in section 21 and Osmun Rd in section 33.

Fire Protection:

Access could be a challenge should a wildfire start occur within this compartment. Primarily because of the poor and impassable segments of muddy and washed-out forest roads that are present in many areas. Natural conifer cover types, including a few larger stands mainly dominated by jack pine, are present in this compartment. The jack pine dominant stands are in sections 28 and 33. Though lowland and saturated stands surround this area of jack pine, there is potential for moderate or intense fire behavior should a start occur. The remaining portions of the compartment are at generally low to moderate risk of wildfire potential.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

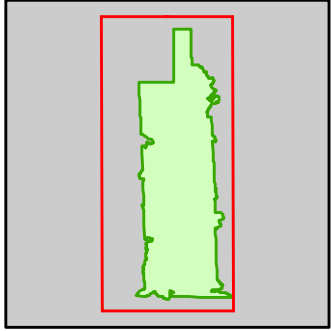
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

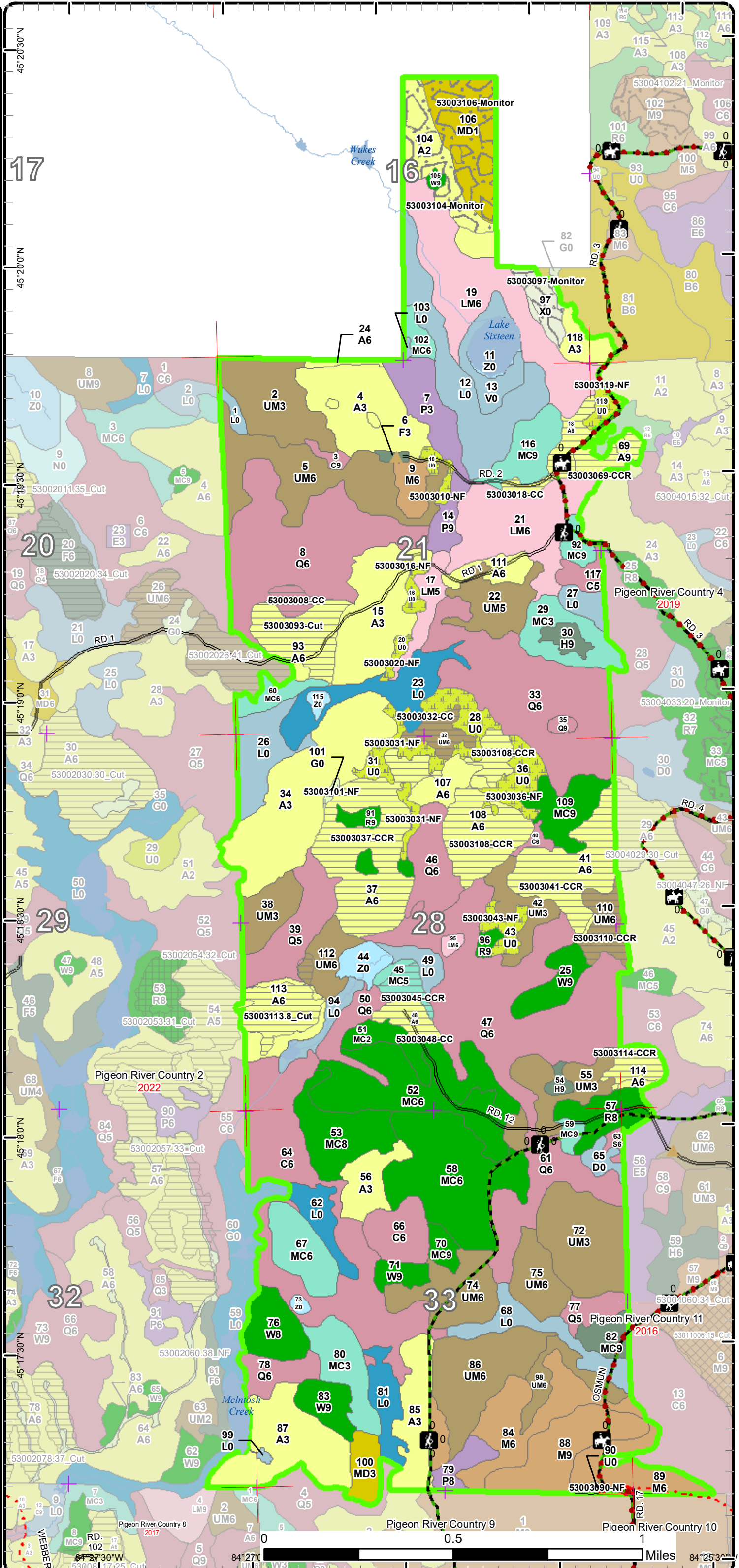
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 3
 T34N, R01W, Sec. 16, 21, 28, 32,
 33
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2024
 Acres: 2083.6 GIS Calculated
 Examiner: John St. Pierre
 Map Revised: 9/16/2022
 Map Phase: Web-Post

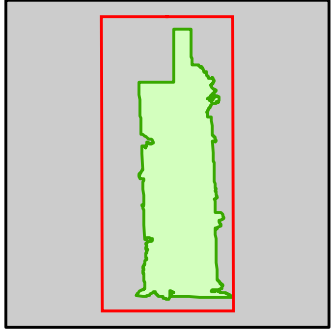


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- County - Gravel Road
- Horse Trails
- Hiking Trails
- Bike Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Intermittent Pond
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Sign
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 790 - Other Bare/Sparsely Vegetated

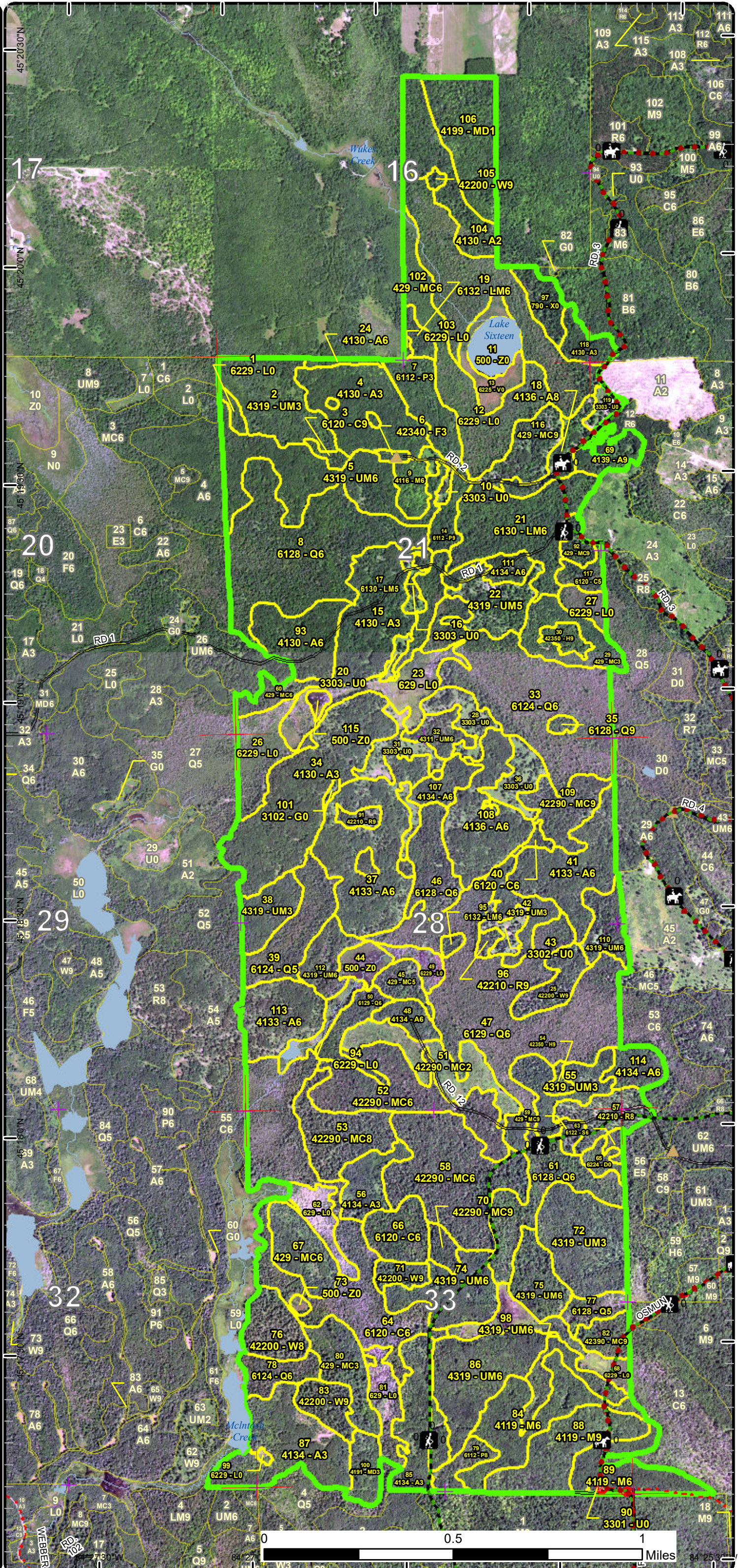


Stand Boundary Map

Compartment: 3
 T34N, R01W, Sec. 16, 21, 28, 32, 33
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2024
 Acres: 2083.6 GIS Calculated
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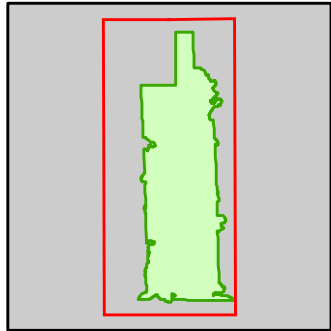


- Miris Corners
- Remonumented Section Corners
- Counties
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- County - Gravel Road
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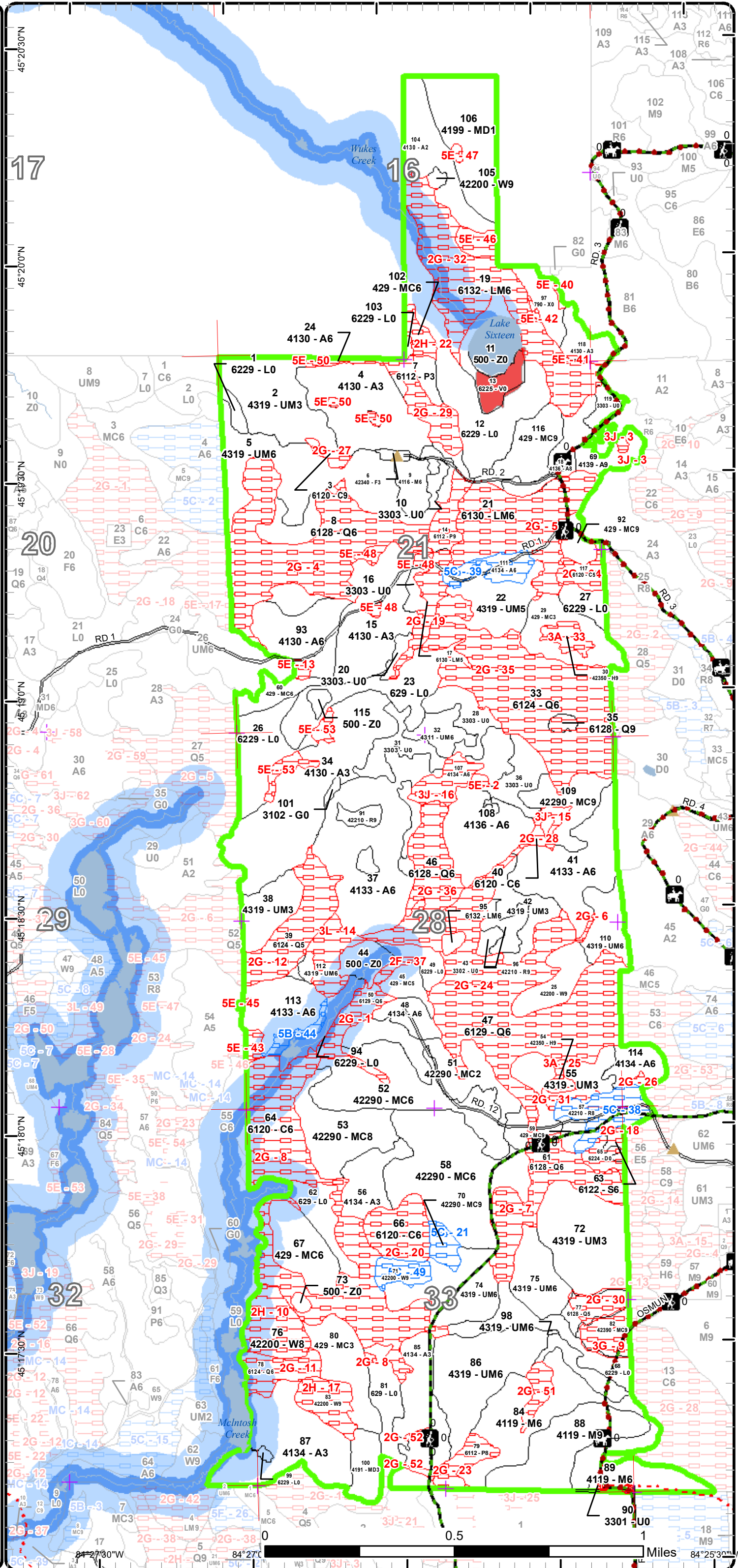


Special Conservation Areas

Compartment: 3
 T34N, R01W, Sec. 16, 21, 28, 32, 33
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2024
 Acres: 2083.6 GIS Calculated
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- Intermittent Pond
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Sign
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes



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	167	0	0	72	0	201	20	0	0	0	0	0	0	0	0	0	0	460
Bare/Sparsely Vegetated	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Bog	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Cedar	0	0	0	0	0	0	0	0	6	5	15	78	0	0	0	0	0	0	103
Hemlock	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Low-Density Trees	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Lowland Aspen/Balsam Poplar	0	0	0	0	18	0	0	15	0	0	0	0	0	0	0	0	0	0	33
Lowland Conifers	0	0	0	0	0	0	0	76	29	153	83	11	0	0	0	0	0	2	353
Lowland Mixed Forest	0	0	0	0	0	0	0	51	0	2	0	0	55	0	0	0	0	0	108
Lowland Shrub	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	32	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Natural Mixed Pines	0	0	24	0	54	0	39	17	0	0	24	5	0	0	0	0	0	0	163
Northern Hardwood	0	0	0	0	0	0	58	0	8	0	29	0	0	0	0	0	0	0	94
Red Pine	0	0	0	0	0	0	0	6	2	0	15	0	0	0	0	0	0	0	23
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	18	35	0	15	28	0	0	0	0	0	0	8	0	0	0	104
Upland Mixed Forest	0	0	0	0	137	0	149	8	0	0	0	0	0	0	0	0	0	0	294
Upland Spruce/Fir	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
White Pine	0	0	0	0	0	0	0	0	12	0	10	7	0	16	0	0	0	0	45
Total	251	199	24	27	318	0	462	221	51	161	175	38	133	16	8	0	0	2	2082



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 228
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	197	0	0	0	0	0	0	0	0	197
Lowland Conifers	5	0	0	0	0	0	0	0	0	5
Upland Conifers	6	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	20	0	0	0	0	0	0	0	0	20
Total	228	0	0	0	0	0	0	0	0	228

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	228	0	0	0	0	0	61	0	52	341
Next Step	0	0	0	0	0	0	228	0	0	228
Total	228	0	0	0	0	0	289	0	52	569



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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:

8	53003008-CC	5.0	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	68	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Proposed harvest boundary approximates an area that is generally upland and operable. Actual boundary will likely change during sale prep activity. - Leave cedar and red/white pine. Protect legacy sized pine and exclude obvious drainages and sensitive/wet soils. - Include brush pile spec <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better stocking mixture of red maple, aspen, paper birch, fir, spruce and pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
10	53003010-NF	3.6	3303 - Mixed Low Density Trees	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees	No
<p><u>Prescription</u> Mow, plant, brush, burn, or herbicide to maintain openings. Plant hard or soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
16	53003016-NF	3.6	3303 - Mixed Low Density Trees	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees	No
<p><u>Prescription</u> Mow, plant, brush, burn, or herbicide to maintain openings. Plant hard or soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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18	53003018-CC	12.0	4136 - Aspen, Mixed Conifer	Sawtimber Medium	64	51-80	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription Clearcut
Specs: - Leave a few scattered white/red pine of better form and varying sizes. Also, leave a few wolfy maple for wildlife usage and/or raptor perches.
 - Include drum log spec and protect spruce saplings
 - When able, expand northern boundary into lowland w/up Stand 19
 - Sign and protect equestrian trail

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

Acceptable Regen: Moderate or better stocking mixture of aspen, red maple, paper birch, pine, fir and spruce.

Other Comment: Roads 2/3, portions of which are the horse trail, will need improvements and crushed stone in areas before hauling can begin. A former portion of R6 Stand 12 is included within this harvest. Approximates a pocket of mature aspen.

Site Condition
Proposed Start Date: 10/1 /2023

20	53003020-NF	2.3	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees		No
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Prescription Mow, plant, brush, burn, or herbicide to maintain openings. Plant hard or soft mast.
Specs:

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition
Proposed Start Date: 10/1 /2023

28	53003028-NF	10.6	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees		No
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Prescription Mow, plant, brush, burn, or herbicide to maintain openings. Plant hard or soft mast.
Specs:

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition
Proposed Start Date: 10/1 /2023



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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31	53003031-NF	12.6	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees	No
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Prescription Mow, plant, brush, burn, or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

32	53003032-CC	8.1	4311 - Pine, Aspen Mix	Poletimber Well	64	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Clearcut

Specs:

- No formal retention, small stand size
- There may be opportunity to expand boundary into adjacent U-type stands. They hold scattered pockets of mature/lower quality timber.
- Leave a few scattered mature pine as a seed source
- Protect pine/spruce saplings and any legacy size pine in specs
- Include drum log spec
- Sign and protect equestrian trail

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Moderate or better stocking mixture of aspen, red maple, pine, fir, spruce and paper birch.

Regen:

Other

Leave any trace xlog/log red oak that might be present. See Stand 41 comments regarding hauling on Road 4.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

36	53003036-NF	10.7	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees	No
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Prescription Mow, plant, brush, burn, or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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37	53003037-CCR	51.8	4133 - Aspen, Mixed Pine	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Clearcut w/Retention

- Specs:
- Focus some retention in the south near the OFS point. Somewhat recent beaver activity was observed in that location.
 - When able, push east/west boundary into adjacent lowland Stands 39/46
 - Leave incidental red/white pine 18" and greater and the trace amount of red oak
 - Include drum log and brush pile specs. Focus brush piles along adjacent lowland stands.
 - Protect pine/spruce saplings and the few legacy size pine in specs
 - Sign and protect equestrian trail

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Moderate or better stocking mixture of aspen, red maple, pine, fir, spruce and paper birch.

Other Comment:

See Stand 41 comments regarding hauling on Road 4. Variable aspen diameters and stocking.

Site Condition

Proposed Start Date: 10/1 /2023

41	53003041-CCR	32.4	4133 - Aspen, Mixed Pine	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Clearcut w/Retention.

- Specs:
- Exclude the seasonal drainage in extreme south, against Stand 110 (2G-6)
 - When able, push south boundary into adjacent lowland Stand 47
 - Leave incidental red/white pine 20" and greater and the trace amount of red oak
 - Include drum log and brush pile specs. Focus brush piles along adjacent lowland stands.
 - Protect pine/spruce saplings and the few legacy size pine in specs
 - Sign and protect equestrian trail

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Moderate or better stocking mixture of aspen, red maple, pine, fir and spruce.

Other Comment:

Road 4, a portion of which is the horse trail, will likely need improvements and crushed stone in areas before hauling can begin.

Site Condition

Proposed Start Date: 10/1 /2023

43	53003043-NF	6.1	3302 - Low Density Conifer Trees	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees	No
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Prescription Mow, plant, brush, burn, or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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45 53003045-CCR 6.0 429 - Mixed Upland Conifers Poletimber Medium 54 51-80 Harvest Clearcut with Retention 4319 - Mixed Upland Forest Even-Aged No

Prescription Clearcut w/Retention
Specs: - Retention identified in north. Captures an in-operable slope populated with smaller diameter conifer.
 - Mark to leave a few of the scattered super-canopy red/white pine. Protect the few legacy pine in specs.
 - Cautiously expand southwest boundary into operable portions of Stands 50
 - Include drum log/brush pile specs
 - Sign and protect High Country Pathway

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

Acceptable Regen: Moderate or better mixture of fir, spruce, pine, larch, maple, cherry, birch and aspen. Expect patchy regeneration and possible stem damage/mortality from beaver.

Other Comment: See Stand 48 comments regarding hauling on Road 12. Harvest added at the request of Wildlife, supported by Fisheries. Stand adjacent to headwaters of McIntosh Creek, periodic beaver activity in area.

Site Condition
Proposed Start Date: 10/1 /2023

48 53003048-CC 7.4 4134 - Aspen, Spruce/Fir Poletimber Well 55 111-140 Harvest Clearcut 4136 - Aspen, Mixed Conifer Even-Aged No

Prescription Clearcut
Specs: - No formal retention, small stand size
 - Mark to leave a few of the scattered super-canopy red/white pine
 - Cautiously expand northwest boundary into operable portions of Stands 50
 - Include drum log/brush pile specs. Protect any legacy size pine.
 - Sign and protect High Country Pathway

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

Acceptable Regen: Moderate or better stocking mixture of aspen, red maple, birch, fir, spruce and pine.

Other Comment: Road 12 will need improvements/crushed stone in areas and possible culvert(s) where it crosses Stands 47/61 before hauling can begin.

Site Condition
Proposed Start Date: 10/1 /2023

69 53003069-CCR 7.2 4139 - Aspen, Mixed Deciduous Sawtimber Well 64 111-140 Harvest Clearcut with Retention 4139 - Aspen, Mixed Deciduous Even-Aged No

Prescription Clearcut w/Retention
Specs: - Vernal pool complex and 'Too wet' exclusions identified in north and south portions of treatment area (3J-3) and count as retention. Exclude/protect these areas during sale prep.
 - Leave a few scattered white/red pine of better form and varying sizes
 - Protect spruce saps, include drum log spec
 - Sign and protect equestrian trail

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

Acceptable Regen: Moderate or better stocking mixture of aspen, maple, paper birch, fir, pine and spruce.

Other Comment: See Stand 18 comments regarding hauling on Roads 2/3.

Site Condition
Proposed Start Date: 10/1 /2023



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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90	53003090-NF	1.0	3301 - Low Density Deciduous Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3301 - Low Density Deciduous Trees	No
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Prescription Mow, plant, brush, burn, or herbicide to maintain openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

93	53003093-Cut	22.3	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut. Do not cut any incidental oak, birch, or spruce. Leave all white pine over 10" DBH. Mark 1-2 large diameter, poor quality aspen per acre as cut and leave trees to serve as drumming logs. Where present, mark to leave scattered large diameter aspen with lots of rot to serve as future snags, no more than 2 per acre. A few oak saplings are present along the road, protect these from damage. Desired retention area has been placed in the southwest corner of the stand which is where most of the oak is located (see site conditions layer). Sign and protect equestrian trail.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully-stocked stand dominated by aspen with any additional mix of species being acceptable.

Regen:

Other See Stand 111 comments regarding hauling on Roads 1/3

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

97	53003097-Monitor	8.3	790 - Other Bare/Sparsely Vegetated	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Conduct a follow-up regen survey during F.Y. 2027.

Specs:

Next Step

Treatments:

Acceptable Moderate or better stocking mixture of aspen, maple, birch, fir, spruce and pine. Though not preferred, accept ironwood and some beech being a component throughout the early developmental stages of this stand.

Other Failed the regen assessment conducted in '22. Almost no regeneration was present at that time. Original coverytype objective was Upland fir (F-coverytype). Agreed at compartment review (5/26/22) to change cover type objective to 'Mixed Upland Forest'.

Site Condition

Proposed Start Date: 10/1 /2026



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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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101	53003101-NF	0.9	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass	No
<p><u>Prescription</u> Mow, plant, brush, burn, or herbicide to maintain openings. Plant hard or soft mast. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										

104	53003104-Monitor	21.5	4130 - Aspen	Sapling Medium	4	Immature	Monitoring	Natural Regen (Intermediate)	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Conduct a follow-up regen survey during F.Y. 2027. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> Moderate or better stocking mixture of aspen, maple, birch, fir, spruce and pine. Though not preferred, expect/accept ironwood and some beech to be a strong component throughout the early development of this stand. <u>Other Comment:</u> Failed the regen assessment conducted in '22. Regeneration was quite patchy at that time with aspen and some ironwood being the dominant species. Covertypes objective is still the same, Aspen, mixed-deciduous (A-covertypes). Agreed at compartment review (5/26/22). <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2026</p>											

106	53003106-Monitor	31.3	4199 - Other Mixed Upland Deciduous	Sapling Poor	4	Immature	Monitoring	Natural Regen (Intermediate)	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription</u> Conduct a follow-up regen survey during F.Y. 2027. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> Moderate or better stocking mixture of aspen, maple, birch, fir, spruce and pine. Though not preferred, expect/accept ironwood and some beech to be a strong component throughout the early development of this stand. <u>Other Comment:</u> Failed the regen assessment conducted in '22. Regeneration was quite patchy at that time with ironwood and aspen being the dominant species. Original covertypes objective was Birch, aspen (B-covertypes). Agreed at compartment review (5/26/22) to change cover type objective to 'Mixed Upland Forest'. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2026</p>											



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
108	53003108-CCR	32.3	4136 - Aspen, Mixed Conifer	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Some retention already identified along the Forest Rd (5E-2). Captures a pocket of mature red pine. - When able, push west boundary into lowland w/up Stand 46 to harvest some spruce/fir. Avoid the areas of fire origin pine. - Leave incidental red/white pine 18" and greater - Include drum log and brush pile specs. Focus brush piles along adjacent lowland stands. - Protect pine/spruce saplings and any legacy size pine in specs - Sign and protect equestrian trail <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better stocking mixture of aspen, red maple, pine, fir and spruce.</p> <p><u>Other Comment:</u> See Stand 41 comments regarding hauling on Road 4. Variable aspen diameters and stocking.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
110	53003110-CCR	12.2	4319 - Mixed Upland Forest	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Place retention around the survey corner near center of stand (see corner layer) - Exclude the seasonal drainage in west, against Stand 41 (2G-6) - When able, push south boundary into adjacent lowland Stand 47 - Leave incidental red/white pine 20" and greater - Include drum log and brush pile specs. Focus brush piles along southern lowland stand. - Protect pine/spruce saplings in specs and the few legacy size pine in specs - Sign and protect equestrian trail <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better stocking mixture of aspen, red maple, pine, fir and spruce.</p> <p><u>Other Comment:</u> See Stand 41 comments regarding hauling on Road 4.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
113	53003112-CCR	23.3	4133 - Aspen, Mixed Pine	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Capture some areas of mature red pine in island and/or boundary excluded retention. A very prominent area of red pine is located in the southwest. - When able, push north boundary into adjacent lowland Stand 39 - Some scattered mature pine should be left as a seed source - Include drum log and brush pile specs. Focus brush piles along adjacent lowland stands. - Protect pine/spruce saplings and the few legacy size pine in specs <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better stocking mixture of aspen, red maple, pine, spruce, fir and paper birch.</p> <p><u>Other Comment:</u> This is an out-of-year of entry treatment. Access and hauling is best accomplished through Compartment 2. Prepare and combine this harvest with those occurring within Compartment 2.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
114 53003114-CCR	7.8	4134 - Aspen, Spruce/Fir	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut w/Retention</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Some retention identified in south (2G-26). It approximates an area with pit/mounds and seasonally saturated soils. - If able, expand southeast boundary into Stand 53, Compartment 4 - Leave incidental red pine, cedar and hemlock. Exclude/protect any legacy size red/white pine. - Mark to leave a few of the xlog white spruce - Include brush pile spec. Focus piles against adjacent lowland stands. - Sign and protect High Country Pathway <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate or better mixture of aspen, red maple, fir, spruce, pine and paper birch.</p> <p><u>Other Comment:</u> Road 12 will need improvements/crushed stone in areas and possible culvert(s) in Stand 56 (E5) before hauling can begin. Drum log spec is optional, a lot of CWD already present.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
119 53003119-NF	4.1	3303 - Mixed Low Density Trees	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	3303 - Mixed Low Density Trees		No
<p><u>Prescription</u> Mow, plant, brush, burn, or herbicide to maintain openings. Plant hard or soft mast. Protect horse trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 344.4

Availability for Management

Total Acres Acres Available *Acres Avail With Condition* Acres Not Available

Dominant Site Conditions

5C 2F 2G 2H 3A 3G 3J 3L 5E

Total Acres	Acres Available	<i>Acres Avail With Condition</i>	Acres Not Available	Dominant Site Condition	5C	2F	2G	2H	3A	3G	3J	3L	5E
461	421	8	32	Aspen	8		3				9		20
10	8	0	1	Bare/Sparsely Vegetated									1
12	12	0	0	Bog									
103	0	0	103	Cedar			103				0		
7	0	0	7	Hemlock					7				
1	1	0	0	Herbaceous Openland									
54	54	0	0	Low-Density Trees			0				0		
33	6	0	26	Lowland Aspen/Balsam Poplar			26						
353	15	0	338	Lowland Conifers			338			0			
109	2	0	107	Lowland Mixed Forest			107						0
147	146	0	0	Lowland Shrub						0			
2	0	0	2	Lowland Spruce/Fir			2						
41	41	0	1	Mixed Upland Deciduous			0						1
162	155	5	2	Natural Mixed Pines	5						2		
94	94	0	0	Northern Hardwood	0								
23	8	15	0	Red Pine	15								
5	0	0	5	Treed Bog			5						
105	91	0	14	Upland Conifers		2	0	4		8			
294	272	0	22	Upland Mixed Forest			10					13	
1	1	0	0	Upland Spruce/Fir									
21	21	0	0	Water									
45	13	6	26	White Pine	6			26					
2,083	1,362	33	687	Total Forested Acres	33	2	594	31	7	8	11	13	21
	65%	2%	33%	Relative Percent									

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Majority of stand is 'Too wet' with sensitive soils. Maintain as a filter strip along McIntosh Creek corridor (Stand 94).							

Report 4 – Site Conditions

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2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pre-sale prep area identified for Long-Term Retention within Stand 108. Captures a small pocket of mature red pine.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Two exclusions for the timber sale occurring within this stand. The northern polygon approximates an area that very much looks like a small vernal pool complex. The southern polygon is seasonally wet and an extension of a wet area located in A3 Stand 24.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland w/upland stand. Some locations along perimeter were upland and appeared operable. Excluded the areas I walked and deemed operable from this site condition.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximates a small, but likely seasonal drainage, observed in spring '22. Was dry but had areas with mucky/soft soils. Best to exclude from any harvest activity.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Majority of stand is 'Too wet' with sensitive soils. Upland (mixed w/low) areas are present but usually had swallow depressions that resembled vernal pool complexes. A fair number of legacy sized white pine present too.							

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3G: Other Influence zones - See comments	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Travel influence							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Old/overgrown haul route that provided access to this stand in '98 has become an active beaver dam where the route crossed Stand 81. Stand is then surrounded by additional lowland(s) on all sides.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet with sensitive soils.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Some upland present in perimeter areas but overall this stand is 'Too wet' with sensitive soils.							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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14	Unavailable	3L: Other wildlife concerns	13	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Considered treating w/Stands 34/112. Concerned about beaver activity and that Stands 49/44 are head waters for McIntosh Creek. And Stand 94 is the corridor that holds McIntosh Creek. Consulted T.Cwalinski about leaving this stand uncut, to discourage beaver. He was in favor of leaving this stand un-cut.</p>							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<p>Comments: Condition approximates a seasonal drainage course. Northern area had vernal pool complex traits and was holding water in swallow depressions (in spring '22).</p>							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<p>Comments: Though primarily upland about half the stand acts as a seasonal water course and has sensitive soils. Swallow depressions common south of the Forest Road that were vernal pool in appearance.</p>							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Old/overgrown haul route that provided access to this stand in '98 has become an active beaver dam where the route crossed Stand 81. Stand is then surrounded by additional lowland(s) on all sides.</p>							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Site condition captures Stands 63 & 65. Both stands are 'Too wet' to support conventional harvest equipment.</p>							

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19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand overall 'Too wet' to support conventional harvest equipment.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Increasingly rare covertime of large, tall natural red and white pine. Small stand size as well. Recommend no management for the foreseeable future.							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is blocked by drainage/small stream corridor located in Stand 7.							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland corridor with wet, sensitive soils and generally limited merchantability.							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	101	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large lowland complex that was very wet in the areas I was able to see.							

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25	Unavailable	3A: Conservation Values incompatible with harvest at this time	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<p>Comments: Small pocket of hemlock, variable sizes from sapling to legacy. Too wet in south, stand has consistent pit and mounds.</p>							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	3J: Water quality / BMPs (stream, river, or lake)	5E: Long-Term Retention	Unspecified	Unspecified
<p>Comments: Condition approximates an area of seasonally saturated soils with many pit/mound formations that might be a vernal pool complex. Do not include within harvest/sale boundary. This exclusion can also be considered area retention.</p>							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Small cedar stand with wet and sensitive soils. Heavy wildlife usage too.</p>							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: Lowland cedar Stand 40 is 'Too wet' and a drainage flows south out of 40, through Stand 42 and then into large lowland Stand 47. The drainage is likely seasonal but had flowing water when visited in May '22.</p>							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: The drainage/eventually stream course down center of stand has seasonally wet/sensitive soils that would be easily damaged by conventional harvest equipment.</p>							

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30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: At least seasonally wet, small pocket of lowland shrub on west then a corridor of cedar/fir east of low shrub.							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Larger lowland complex with a brief area of upland in the extreme south.							
33	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small, nearly pure stand of upland hemlock. No management recommended now or in the future.							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small and wet stand with a lower stocking of cedar and other conifer/deciduous species.							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	77	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large lowland complex, vast majority of which is 'Too wet' for conventional harvest equipment.							

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36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Drainage course with wet and sensitive soils. Condition also captures a 5ac inclusion of Up w/Low MC6/9 in southeast, likely fire origin.							
37	Unavailable	2F: Too steep	2	5E: Long-Term Retention	2G: Too wet (sensitive soils, does not include access issues)	3L: Other wildlife concerns	Unspecified
Comments: Number of reasons for this site condition. Primary is that it's located on a slope, though not terribly steep, that bottoms out into open-water and lowland shrub stands. Essentially no where for equipment to turn around at slope bottom. Limited merch conifer on slope, wet at bottom, historic beaver activity in area and headwaters for McIntosh Creek (Stands 44-49). Counts towards Long-Term Retention too.							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most recently had a selection harvest in '15. Age of dominant red pine is causing this R8 stand to met silvicultural criteria.							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See draft treatment comments regarding harvesting this stand during '34 YOE.							
40	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Pigeon River Country Mgt. Unit

Compartment: 3

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42	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Island and boundary excluded retention for the timber sale that occurred in Stand 15.							
49	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Increasingly rare covertime of large, tall natural red and white pine. Small stand size as well. Recommend no management for the foreseeable future.							
50	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This 3-part polygon was formally part of Stand 4 before it was harvested under contract 'Up North Aspen' in 2018. The northern exclusion against private is essentially the result of following an old fence line and excluding some low/wet areas. Sale Rx'd and set-up by R. McDonald.							
51	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Appears to be a seasonally wet water course with sensitive soils, some tip-ups and lower stocking of canopy species.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 3

John St. Pierre: Examiner

Year of Entry: 2024

52	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Seasonal drainage courses, both flow west. Southern drainage was larger/more obvious and a continuation of water moving out of Stand 79.</p>							
53	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Boundary excluded (by McDonald) retention for the timber sale that occurred within this stand (34).</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
1	6229 - Mixed lowland shrub	Nonstocked	2.5		Unspecified	No	Low, wet depression full of shrubs and tree species.																											
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2	4319 - Mixed Upland Forest	Sapling Well	30.0	32	1-50	N/A	Don't have the record but apparently harvested late 80's/early 90's. Still primarily sapling sized with stems transitioning to pole throughout. Species dominance in 'waves', areas of mostly conifer then areas with more aspen. Some locations heavier to aspen have converted to pole. Can still see former skid routes on the ground and on imagery, those areas have regenerated slower. Southern/central area likely holds/moves water seasonally. Appears cedar was left, scattered L/P present in clumps and as singles. Trace log WP present.																											
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3	6120 - Lowland Cedar	Sawtimber Well	2.4	95	141-170	N/A	Small cedar stand w/a few other species mixed in. Most cedar hovering around larger pole/smaller log sizes. A few xlog NWC present. Northern boundary skirts upland. Heavy deer usage when visited. BA swings: 220,90,210 (173avg).																											
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4	4130 - Aspen	Sapling Well	35.3	4	Immature	N/A	McDonald: Up North Aspen sale cut in 2018. JSP '22: Regeneration is generally looking good for aspen. However, some areas have been heavily browsed. This seemed to be more prevalent closer to the retention islands. Red maple is not doing well. Most maple sprouts heavily browsed, many right down to the stump. Maple listed above in canopy are those stems that have made it to, or above browse height. Estimate overall canopy-closure at low end of 75-100%. Some minor wet areas on east against old RR Grade.																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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5	4319 - Mixed Upland Forest	Poletimber Well	44.4	56	81-110	N/A	Aspen/fir mixed w/others. Average DBH's are small/medium pole size. Areas with larger aspen stem sizes common throughout, generally where there's less competition from fir. Though fir is common, much heavier components in eastern and western 1/3rd of stand. Southern and northern boundary interface with lower ground. A brief low area of blowdown near Stand 3. More lowland influence/sensitive ground in western 1/3rd, pit/mound common, some very likely vernal pool(s)/complexes. Incidental/trace amount of super-canopy WP/RP observed, one xlog NWC too. A few xlog QA/RM along perimeter. BA swings= 140,70,90,70,60,120,80,70 (87avg).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir	34	Pole/Sap/Log	7	56	Black Spruce	Medium		< 5 feet	Seeding		
White Spruce	2	Pole/Log	8		Balsam Fir	High		Variable	Sapling		
Bigtooth Aspen	5	Pole/Log	9		White Spruce	Low		10 - 20 feet	Sapling		
Sugar Maple	1	Pole/Log	8		Beech	Trace		5 - 10 feet	Sapling		
Paper Birch	5	Pole/Log	8		Ironwood	Trace		10 - 20 feet	Sapling		
Black Spruce	5	Pole	7		Witch Hazel	Low		5 - 10 feet	Tall Shrub		
Red Maple	10	Pole/Log/Sap	6		Red Maple	Medium		10 - 20 feet	Sapling		
Quaking Aspen	38	Pole/Log/Sap	7	56	Paper Birch	Medium		10 - 20 feet	Sapling		

6	42340 - Upland Spruce/Fir	Sapling Well	1.5	32	1-50	N/A	McDonald '12: Small opening probably used as a landing for a nearby timber sale has been filling in over the past 20 years. JSP '22: Small strip of conifer/deciduous mixture. Stems beginning to convert/some have converted to smaller pole sizes. A few older/larger pine present. BA ranges 1-50BA.
Canopy Species		% Cover	Size Class	DBH	Age		
Black Cherry	2	Sapling	3				
Quaking Aspen	5	Sapling/Pole	4				
Balsam Poplar	3	Sapling/Pole	3				
Balsam Fir	36	Sapling/Pole	4	32			
White Spruce	24	Sapling/Pole	4	32			
Paper Birch	12	Sapling/Pole	3				
Red Maple	10	Sapling/Pole	3				
Red Pine	3	Log/Pole	12				
White Pine	5	Sapling/Pole	4				

7	6112 - Lowland Aspen	Sapling Well	17.9	33	1-50	N/A	Drainage course runs N/S down the center of this stand. Eventually becomes a small stream at north end, flows into/out of Stand 103. SOM survey corner in this location too. Could call this an Upland w/Low stand (was my original call). Can change from 'Low' to 'Up' in a matter of a few feet. Still sapling dominated yet many stems have moved/are moving into smaller pole sizes, especially in east/northeast and extreme southern areas of stand. Old RR Grade is the west boundary and likely affecting hydrology. BA ranges 1-50.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir	20	Sapling/Pole	4		American Elm	Trace		>20 feet	Sapling		
White Spruce	8	Pole/Sapling	5	33	Striped Maple	Low		10 - 20 feet	Sapling		
Paper Birch	8	Sapling/Pole	4		Tag Alder	Medium		5 - 10 feet	Tall Shrub		
Northern White Cedar	5	Pole/Log	8		Leatherwood	Low		< 5 feet	Tall Shrub		
Black Spruce	3	Sapling/Pole	4		Black Cherry	Low		10 - 20 feet	Sapling		
Quaking Aspen	38	Sapling/Pole	4	33							
Balsam Poplar	8	Sapling/Pole	4								
Red Maple	10	Sapling/Pole	3								



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8	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	76.3	68	81-110	N/A	Walked right through the middle, south to north. And saw edge locations from other surrounding stands. Quite a variety of species, size classes and variable soil conditions. A fair amount of upland/transitional upland conditions where I walked. DBH's larger where more upland and a mix of deciduous/conifer. Center locations where mostly pure cedar and wet but walkable. Lowland shrub/small diameters in west/center portion of stand. Seasonal water courses/drainages common where I traveled. Red pine a likely component but didn't see those where I was. BA swings= 80,80,150,180,70,50 (101avg).																																																																											
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9	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	7.7	71	81-110	N/A	Decent quality hardwood stand that has a lot of small diameter trees at this time. Most sugar maple are in the poletimber size class and the sawlog-sized trees that are present are only around 10-11 inches in diameter. Scattered clumps of bigtooth aspen, mostly along the edges of the stand. The middle of this stand is on a slight ridge with slopes going down to the west, south, and east. Average ba/acre from 7 plots = 103 square feet. This stand will probably be ready for a thinning next entry if diameters have increased enough.																																																																											
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10	3303 - Mixed Low Density Trees	Nonstocked	3.6		Unspecified	No	Northern area is far less forested than the southern portion. Mixture of conifer and some deciduous of varying sizes. A couple of large basswood on the northern edge.																																																																											
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11	500 - Water	Nonstocked	10.5		Unspecified	No	Lake Sixteen																																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
12	6229 - Mixed lowland shrub	Nonstocked	41.7	0	Unspecified	No	Observed this large lowland stand from several edge locations, specifically from Stands 102, 7, 116 and 19 (west to east). High to full stocking of lowland shrub types viewed from each location and very wet. Conifer and deciduous tree species ranging from sap, pole and some log were observed too. Eastern areas of this stand appeared to have more tree species mixing in with the lowland shrubs. As a whole, felt shrubs were more dominant but certain areas could pass as a LM4/5 coverttype. This stand butts up against the Lake Sixteen ERA.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Tamarack	Medium	>20 feet	Pole					
								Ninebark	Medium	5 - 10 feet	Tall Shrub					
								Balsam Fir	Medium	Variable	Sapling					
								Tag Alder	Full	Variable	Tall Shrub					
								White Pine	Low	>20 feet	Pole					
								Cattail spp.	Medium	Unspecified	Non-Wood					
								White Spruce	Medium	>20 feet	Pole					
								Nannyberry	Medium	5 - 10 feet	Tall Shrub					
								Jack Pine	Low	>20 feet	Pole					
								Quaking Aspen	Low	>20 feet	Pole					
								Red Maple	Medium	>20 feet	Pole					
								Balsam Poplar	Low	>20 feet	Pole					
								Northern White Cedar	Medium	10 - 20 feet	Pole					
								Paper Birch	Low	>20 feet	Pole					
Black Spruce	Medium	>20 feet	Pole													
Michigan Holly	Medium	5 - 10 feet	Tall Shrub													
13	6225 - Bog	Nonstocked	11.9		Unspecified	No	Bog along south edge of Lake Sixteen. It is an ERA and extends north into stand 69/95 of the Indian River Compartment.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Michigan Holly	Low		Tall Shrub					
								Labrador Tea	Medium		Tall Shrub					
								Leatherleaf	High		Tall Shrub					
Sphagnum Moss	Medium		Non-Wood													
14	6112 - Lowland Aspen	Sawtimber Well	7.5	64	81-110	N/A	Walked the old RR Grade that runs N/S down the center/eastern portion of the stand. This stand definitely holds and moves water though isn't completely lowland. Upland areas common, but can then move quickly into low. Pit/mounds and swallow depressions common. Old RR has/is affecting hydrology (would've been difficult to walk this stand without the grade). Enough log sizes to call that dominant yet plenty of pole size stems throughout. Trace L/P yellow birch, likely some BTA mixing in along west boundary. BA swings= 70,140,110 (106avg).									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Balsam Poplar	3	Log/Pole	11		Balsam Fir	High	Variable	Sapling
								Quaking Aspen	38	Log/Pole	12	64	Nannyberry	Medium	5 - 10 feet	Tall Shrub
								Balsam Fir	12	Pole/Sap/Log	7		White Spruce	Low	5 - 10 feet	Sapling
								Black Spruce	4	Pole	7		Black Cherry	Medium	5 - 10 feet	Sapling
								White Spruce	3	Log/Pole/XLog	15		Tag Alder	Medium	5 - 10 feet	Tall Shrub
								Paper Birch	8	Pole/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
								White Pine	2	Log/Pole/XLog	11					
								Red Maple	28	Log/Pole	10					
Black Cherry	2	Log/Pole	10													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																																												
15	4130 - Aspen	Sapling Well	36.3	4	Immature	N/A	Majority of stand has regenerated except for low lying/wetter areas. Slash was laid down in those areas to hold weight of equipment, now very little regen present/hasn't yet responded. Largest wet/poor regen area observed is just north of the island retention in middle of stand. Red maple stems have been heavily browsed and now lagging behind the aspen that is now generally above browse height. White pine (sap-legacy) and a few RP (L/P/XL) were left as residual. Altogether very few of those present. across the stand.																																																																																																												
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16	3303 - Mixed Low Density Trees	Nonstocked	3.6		Unspecified	No	Mixture of conifer and deciduous tree species of varying sizes. Prominent clump of P/L Jack Pine in center of this stand.																																																																																																												
17	6130 - Fir, Aspen, Maple	Poletimber Medium	9.3	62	Unspecified	N/A	Walked western edge south of Road 1, tried interior but was too wet. Core/interior I saw/could see was an active drainage course with high/full lowland shrub inter-mixed w/conifer and deciduous species. Brief upland on west edge that then slopes down into drainage. Old RR Grade in north, north of Road 1. Spring/seep in Road 1 that was bubbling out water. Trace yellow birch, then saw one xlog/log red oak in southern tail. Scattered clumps of NWC. BAM likely present. No BA swings taken.																																																																																																												
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18	4136 - Aspen, Mixed Conifer	Sawtimber Medium	12.0	64	51-80	N/A	This stand likely more of a opening in the past but has been gradually filling in over time. Patchy stocking in areas, then other locations densely stocked with clonal aspen, red maple and/or a host of other conifer/decid species. Generally log sized yet pole stems still prevalent. Mediocre quality soft maple, most multi-stemmed. Some decent advanced regen in areas, weevil has taken a toll on some open-grown WP saps. Evidence of deciduous removal in south, just north of Road 2/3. Perhaps half/one acre area where BTA saps are prevalent. High Country Pathway (Road 2) travels through this stand. Trace pole red oak. BA swings= 40,90,80 (70avg).																																																																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 6132 - Mixed Lowland Forest with Cedar Poletimber Well 55.1 118 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	6		Black Ash	Low	Variable	Sapling
Northern White Cedar	20	Pole/Log	8	118	Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	20	Pole/Log	8					
Black Ash	20	Pole	5					
Red Maple	10	Pole	7					
Balsam Fir	20	Pole	6					

20 3303 - Mixed Low Density Trees Nonstocked 2.3 Unspecified No Low density mixture of conifer and deciduous tree species of varying sizes.

21 6130 - Fir, Aspen, Maple Poletimber Well 42.4 64 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	4	Pole/Log	8		Nannyberry	Low	5 - 10 feet	Tall Shrub
Paper Birch	8	Pole/Log	8		Tag Alder	Low	10 - 20 feet	Tall Shrub
Balsam Fir	22	Pole/Log	8	64	Balsam Fir	High	Variable	Sapling
Quaking Aspen	19	Log/Pole/XLog	11		Paper Birch	Trace	>20 feet	Sapling
White Spruce	12	Log/Pole/XLog	10		White Spruce	Trace	Variable	Sapling
White Pine	12	Log/XLog	14		Michigan Holly	Low	5 - 10 feet	Tall Shrub
Red Pine	1	Log/XLog	14		Red Maple	Trace	Variable	Sapling
Red Maple	20	Pole/Log	8					
Bigtooth Aspen	2	Log/XLog	14					

Diverse mix of species that sits on a complex mix of dry and wet ground, although lowland is dominant. Some areas of primarily upland are present but they can be found only along the perimeter of the stand. Pit and mound topography is prevalent throughout, with vernal pools present in many of the "pits" and the "mounds" being drier ground. Some of the larger areas of wet ground have a mix of lowland shrubs growing in the understory. The wettest ground is in the interior and appears to be a large drainage system that starts on the east side and flows west through the stand, eventually turning into what looks like a seasonal stream. The cedar component can mostly be found along the west side of the stand. White pine tends to be in clumps along the edges, although some scattered individual stems are present throughout the interior. Trace of yellow birch and red oak in the overstory. Average ba/acre from 15 plots = 100 square feet. No management possible due to the wet soils.

22 4319 - Mixed Upland Forest Poletimber Medium 17.8 56 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	16	Log/Pole	11		Balsam Fir	High	Variable	Sapling
Balsam Fir	31	Pole/Sap/Log	7	56	White Spruce	Trace	Variable	Sapling
White Pine	22	Log/XLog/Pole	13		Red Maple	Trace	Variable	Sapling
Quaking Aspen	2	Pole	8		White Pine	Low	Variable	Sapling
White Spruce	4	Pole/Log	8		Red Pine	Trace	Variable	Sapling
Red Pine	2	Log/Pole/XLog	12		Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
Paper Birch	3	Pole	7					
Red Maple	20	Pole/Log	8					

Mix of forested and non-forested patches throughout the stand. This appears to be a very poor site as many of the non-forested areas have abundant reindeer moss at the ground level. Stocking is better in the middle and east portions of the stand with some areas of nice white pine. In other areas of the stand the white pine is open-grown and poor quality. Some of the white pine are very large, with a few stems over 30" DBH. Aspen is mostly in the west/northwest part of the stand, present in a few clumps and poor quality. Fir and lesser amounts of pine and spruce are starting to fill in a few of the open areas. Average ba/acre from 12 plots = 63 square feet. Terrain slopes down slightly to the southwest. The ground is mostly upland but transitions to wetter ground along the south edge. Let conifers continue to fill in and treat when stocking has increased. Manage for conifers as this appears to be a very poor site for deciduous species.

Some off-road activity is taking place in the non-forested areas of the northwest part of the stand. There is a large tree stand with shooting lanes cut in the southwest part of the stand, near the bubble of lowland that juts into the stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
23	629 - Mixed non-forested wetland	Nonstocked	23.4		Unspecified	No	Old beaver marsh after water has been drained for a few years. The larger eastern portion was gradually being reclaimed by grasses, shrubs and tree species. Was an interesting site to see when visited in April '22. Area west of Stand 115 was still quite wet with a lot down/dead cedar.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Paper Birch	Low		Sapling	
								White Spruce	Low		Sapling	
								Balsam Poplar	Low		Sapling	
								Willow spp.	Low		Tall Shrub	
Alder	Low		Tall Shrub									
24	4130 - Aspen	Poletimber Well	3.3	56	81-110	N/A	This 3-part polygon was formally part of Stand 4 before it was harvested under contract 'Up North Aspen' in 2018. The species composition listed above is a very broad calculation of what species the polygons actually hold. The northern exclusion against private is essentially the result of following an old fence line and excluding some low/wet areas. Sale Rxd and set-up by R. McDonald.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	40	Pole/Log	9	56
								Red Maple	15	Pole/Sap/Log	8	
								Balsam Fir	10	Pole/Sap/Log	7	
								White Spruce	5	Pole/Log/Sap	8	
								Quaking Aspen	30	Pole/Log	9	
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	10 - 20 feet	Sapling									
Balsam Fir	Medium	Variable	Sapling									
25	42200 - Natural White Pine	Sawtimber Well	11.7	72	81-110	N/A	Essentially even-aged but w/a scattered/younger age class as a result of removal harvest and some sub-can conifer recruitment. Dominant pine canopy very much likely fire origin, heavy to WP w/RP scattered throughout. North 1/2 of stand has a higher can-closure. South 1/2 a bit more patchy stocking w/scattered small openings. Log sizes tended to be most common but plenty of pole sizes present. A few legit legacy WP present (a 40") and RP observed. More fir saps in south 1/2, trace log PB. BA swings= 80,80,100,100,50,70 (80avg).					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	5	Pole/Sap/Log	7	55
								Red Maple	8	Pole/Sap/Log	7	
								Jack Pine	1	Log/Pole	10	
								Quaking Aspen	3	Pole/Sapling	7	
								Red Pine	10	Log/Pole/XLog	15	72
								Black Spruce	3	Pole/Sapling	6	
								White Pine	60	Log/Pole/XLog	14	72
								White Spruce	5	Pole/Sap/Log	7	
								Balsam Fir	5	Pole/Sap/Log	6	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	>20 feet	Sapling	
White Spruce	Medium	Variable	Sapling									
Black Spruce	Medium	Variable	Sapling									
White Pine	Low	10 - 20 feet	Sapling									
Red Pine	Low	10 - 20 feet	Sapling									
Balsam Fir	High	Variable	Sapling									
26	6229 - Mixed lowland shrub	Nonstocked	19.2	0	Unspecified	No	Essentially a non-forested lowland shrub stand with conifer/deciduous tree species mixing in (when viewed from the northern boundary). The result of constant beaver activity in the area. Did not see from the southern boundary. There appears to be more conifer species in the that location.					
27	6229 - Mixed lowland shrub	Nonstocked	6.0	0	Unspecified	No	Saw from several locations along the southern boundary. Heavily populated with lowland shrubs, then mixing with smaller diameter conifer and deciduous species. Was very wet, holding water during my visit. Graduates into a lower stocked forested stand, which is now Stand 117.					
28	3303 - Mixed Low Density Trees	Nonstocked	10.6		Unspecified	No	Low density (sometimes high) mixture of conifer and deciduous tree species of varying sizes. Some large/old 'Logging Era' stumps are present.					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																							
29	429 - Mixed Upland Conifers	Sapling Well	16.9	32	1-50	N/A	Good mix of regeneration. Heavy to conifer species. Northern strip and east end on pit/mound ground that interfaces with lowland. Older beaver activity observed in northern strip. A few hemlock, orphans from Stand 30, make their way into this stand. BA ranges 1-50. Pole sizes emerging in areas.																																																																																							
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30	42350 - Upland Hemlock	Sawtimber Well	4.8	92	141-170	N/A	Pretty nifty. Essentially a pure stand of hemlock. Just a few trace PB/RM mingling in the canopy. Removal harvest did go through, now a few minor pockets of RM regen and some scattered fir. Can pretty much see through this stand, end to end. BA swings= 230,140,150 (173avg).																																																																																							
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32	4311 - Pine, Aspen Mix	Poletimber Well	8.1	64	81-110	N/A	Odd and inconsistent mixture of species, diameters and stocking/canopy closure. Somewhat of a stump-field, scattered large fire scarred stumps were somewhat common. Likely burned over hard in past. Generally poor quality deciduous, aspen is clumpy/clonal in nature/isn't consistent throughout. Area in center/north heavy to JP; JP snags common throughout stand. RP is consistent but scattered, some WP here/there too. Appeared to be heavily traveled/utilized by wildlife. Decent advanced pine regen in areas, heights vary because of fluctuating/variable canopy closure. Surrounding openings hold a lot of orphaned pockets/clumps of timber that could be considered part of this stand. BA swings= 160,70,140,10 (97avg).																																																																																							
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33	6124 - Lowland Spruce-Fir	Poletimber Well	74.8	94	81-110	N/A	Large and wet lowland complex that I in no way saw all of. I primarily walked northern areas. There is a brief upland inclusion in west against Stands 23/28. BA swings= 90,110,90 (96avg).																																																																																												
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34	4130 - Aspen	Sapling Well	61.6	4	Immature	N/A	Aspen seems to be regenerating quite well, mainly observed BTA. Red maple and Witch Hazel has been heavily browsed. Red maple now lagging far below aspen heights. Scattered fir seedlings starting to show up. Scattered residual log/xlog red oak present, perhaps 1% of the canopy.																																																																																												
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35	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	1.9	140	81-110	N/A	Small Pine/Hemlock island in the middle of a poor quality spruce swamp. Stand is very wet all around it.																																																																																												
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36	3303 - Mixed Low Density Trees	Nonstocked	10.7		Unspecified	No	Low density (sometimes high) mixture of conifer and deciduous tree species of varying sizes with white pine being most common.																																																																																												
37	4133 - Aspen, Mixed Pine	Poletimber Well	51.8	55	51-80	N/A	Stands 112/113 were formally part of this stand. Majority of stand has patchy stocking, giving it a can-closure at low-end of 75-100%. Exceptions w/higher closure include some west/east/north perimeter locations. Beaver activity, from a couple years ago, observed in southwest, several pole aspen were cut (see OFS point). Aspen, mostly BTA, was quite variable in size/merch (saps still common) and mediocre quality. Extreme northern 'blob' holds some larger QA. Some scattered xlog/legacy RP and xlog WP observed. Areas of good advanced WP/RP regen present. Essentially trace xlog red oak/most in north. BA swings= 110,30,80,70,50 (68avg).																																																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
38	4319 - Mixed Upland Forest	Sapling Well	13.6	37	1-50	N/A	Couple of isolated/small pockets where aspen stems have converted to pole size. The ground is pit/moundy in areas. A few scattered RP/NWC left as residual. Becomes increasingly wet along/near/against most perimeter locations.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		5	Sapling/Pole	4		Tag Alder		
Red Maple		10	Sapling/Pole	3		Medium		
Bigtooth Aspen		4	Pole/Sapling	6		10 - 20 feet		
Paper Birch		3	Sapling/Pole	4		Tall Shrub		
Northern White Cedar		2	Pole/Log	9				
Quaking Aspen		38	Sapling/Pole	4	37			
Black Spruce		12	Sapling/Pole	3				
Red Pine		3	Sapling/Pole/Log	4				
Balsam Poplar		3	Sapling/Pole	4				
Balsam Fir		20	Sapling/Pole	3				
39	6124 - Lowland Spruce-Fir	Poletimber Medium	22.9	86	51-80	N/A		Walked through the south 1/2, saw northern portions from edge of adjacent stands. Pretty much solid/closed canopy cedar in the southern 1/3rd before toggling over to a lower stocked mixture of spruce, cedar, fir and some maple/birch. Spongy/mossy ground, wet and moving water in areas. Tip-ups here/there. Xlog cedar present. Stocking of spruce increases in northern areas. Some xlog/log/legacy pine observed on perimeter. BA swings= 280,20,60 (120avg).
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		5	Pole	8		Tag Alder		
Balsam Fir		10	Sapling/Pole	4		Medium		
Red Pine		2	Log/XLog	16		Variable		
Tamarack		4	Pole/Log	8		Sapling		
Northern White Cedar		25	Pole/Sap/Log	7		Sapling		
Black Spruce		46	Pole/Sap/Log	7	86			
Red Maple		8	Pole/Sap/Log	8				
40	6120 - Lowland Cedar	Poletimber Well	2.1	98	111-140	N/A	I did walk through this stand but didn't spend much time in it. Was very wet, seasonal run-off from Stand 109 passes through this stand and then moves south through Stand 42 and into Stand 47. Some very large, legacy sized WP and xlog RP. Large WhtSprc too. Evidence of an old road or R.R. grade passing through the stand. Small but impressive stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		5	XLog/Log/Pole	22	120	Balsam Fir		
Quaking Aspen		5	Log/XLog	16		Low		
Northern White Cedar		64	Pole/Log/XLog	9	98	Variable		
Red Pine		3	XLog/Log	18		Sapling		
Red Maple		3	Log/Pole/XLog	12				
Paper Birch		10	Pole/Log	9				
White Spruce		5	Log/XLog/Pole	14				
Balsam Fir		5	Pole/Log	8				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
41	4133 - Aspen, Mixed Pine	Poletimber Well	32.9	55	81-110	N/A	Aspen (mostly BTA) mixed w/pine and other conifer. Saw two minor, what looks like underground seasonal drainages in south. One near the older haul route road and the other against Stand 110. The one against Stand 110 looked more legit, had some squishy soils in spots. Both were essentially dry during my visit. Southern portion of stand has a bit higher can-closure. Northern areas open-up a bit, had some patchy stocking. Scattered older super-canopy WP/RP and a few legacy sized WP/RP too. A few xlog/log RO in north. Trace PB, JP and saw one NWC (in south drainage). BA swings= 110,70,100,100,90,110,60,90 (91avg).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		3	Pole/Sap/Log	7		White Spruce		Low	Variable	Sapling	
Quaking Aspen		5	Log/Pole/XLog	11		Black Spruce		Low	Variable	Sapling	
Balsam Fir		8	Pole/Sap/Log	6		Black Cherry		Trace	5 - 10 feet	Sapling	
Red Pine		8	Log/Pole/XLog	12	70	Red Pine		Low	5 - 10 feet	Sapling	
Red Maple		10	Pole/Sap/Log	7		Red Oak		Trace	5 - 10 feet	Sapling	
Red Oak		1	XLog/Log	18		White Pine		Medium	10 - 20 feet	Sapling	
Bigtooth Aspen		46	Pole/Log/Sap	8	55	Balsam Fir		Medium	Variable	Sapling	
White Spruce		4	Pole/Log/XLog	8		Red Maple		Low	10 - 20 feet	Sapling	
White Pine		15	Pole/Log/XLog	9		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
42	4319 - Mixed Upland Forest	Sapling Well	12.1	37	1-50	N/A		A little bit of everything. Some residual cedar here/there left during harvest. Wet/transitional soils as you approach lowland Stand 47. Didn't see much of the northern half but there is a (likely seasonal) drainage in north that flows out of Stand 40, through this stand and into Stand 47. Additional species I missed might be in north, or differing percentages of what's listed above.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Pine		4	Sapling/Pole	4		Black Cherry			Low	10 - 20 feet	Sapling
Red Maple		18	Sapling	3		Tag Alder			Low	5 - 10 feet	Tall Shrub
Balsam Fir		24	Sapling/Pole	3							
Paper Birch		3	Sapling/Pole	4							
White Pine		4	Sapling/Pole	4							
White Spruce		10	Sapling/Pole	3							
Quaking Aspen		34	Sapling/Pole	4	37						
Black Spruce		3	Sapling	3							
43	3302 - Low Density Conifer Trees	Nonstocked	6.1		Unspecified	No	Semi-open area with a broad mix of species, mainly conifer, and size classes.				
Sub-Canopy Species		Density	Avg. Height	Size							
White Pine		Medium		Pole							
White Spruce		Low	>20 feet	Pole							
Red Maple		Low	>20 feet	Pole							
Black Spruce		Low	>20 feet	Pole							
Red Pine		Medium		Log							
Bracken Fern		High	Unspecified	Non-Wood							
Jack Pine		Low	>20 feet	Pole							
Quaking Aspen		Low	>20 feet	Pole							
Balsam Fir		Medium		Log							
44	500 - Water	Nonstocked	7.1		Unspecified	No	McDonald '12: Beaver marsh - empty at present time. Upper end of McIntosh Creek.JSP '22: Was nearly full of water when visited in '22. Likely dries out from time to time based on McDonald's comment and fluctuating water table/beaver activity. South end against Stand 94 appeared to by a very old beaver dam.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
45	429 - Mixed Upland Conifers	Poletimber Medium	7.6	54	51-80	N/A	Interesting mixture and stand. The southern 2/3rds is a patchy mix of JP, BF and a little bit of everything else. That area has openings/non-forested w/a can-closure at 50-75%. Northern 1/3rd on a downward slope heading toward Z0 flooded Stand 44. Can-closure is 75-100% and has more spruce/fir mixed w/others. Transitional/wet soils at slope bottom. A few super-canopy then legacy sized WP present. Old beaver activity observed (cut stems). BA swings= 30,110,60,50 (62avg).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Tamarack		5	Pole	8		Paper Birch		Low	>20 feet	Sapling	
White Spruce		3	Log/Pole	12		Red Maple		Low	10 - 20 feet	Sapling	
Black Spruce		25	Pole/Sap/Log	6		Black Cherry		Low	5 - 10 feet	Sapling	
White Pine		5	Log/XLog/Pole	14		Balsam Fir		Medium	Variable	Sapling	
Red Maple		8	Pole/Sap/Log	7		Black Spruce		Medium	10 - 20 feet	Sapling	
Red Pine		1	Log/XLog	16							
Jack Pine		25	Pole/Log	8							
Balsam Fir		25	Pole/Sap/Log	8	54						
Paper Birch		3	Pole/Sapling	7							
46	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	18.4	82	81-110	N/A		Majority of this stand is acting as a drainage. North 1/2 has interior area dominated by cedar. Then more spruce, fir and maple as you move toward the perimeter (in north 1/2). West 1/2 of south is more of a mixture of conifer/deciduous but with much less cedar. Southeast progressively becomes more upland before graduating into a 4-6ac inclusion of what looks fire origin MC6/9 heavier to pine, mixing with fir/spruce. Still some isolated pockets of 'low' within the inclusion/and rolling topography. Could've split this out but still features species that are prominent in the truly lowland areas. Trace BAM (log). BA swings= 90,150,90,90,60,70,80 (90avg).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Black Spruce		18	Pole/Log	8	82	Red Maple			High	10 - 20 feet	Sapling
White Spruce		10	Log/Pole/XLog	12		Tag Alder			Medium	5 - 10 feet	Tall Shrub
Tamarack		2	Log/Pole	14		Black Spruce			Medium	Variable	Sapling
Northern White Cedar		18	Pole/Log	9		Black Cherry			Trace	5 - 10 feet	Sapling
Paper Birch		4	Pole	7		Balsam Fir			High	Variable	Sapling
Quaking Aspen		5	Log/Pole	12		White Spruce			Medium	Variable	Sapling
Balsam Fir		10	Pole/Sapling	7							
Red Pine		10	Log/Pole/XLog	14							
Red Maple		18	Pole/Log/Sap	7							
47	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	101.0	86	111-140	N/A	Didn't see all of this stand. The areas I did walk were very wet, mainly populated with canopy cedar and dense fir saps in the sub-canopy. Perimeter locations had some xlog/log/some legacy pine. There's very likely additional species that should be represented in the canopy composition.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Paper Birch		2	Pole	8		Black Spruce		Medium	Variable	Sapling	
Quaking Aspen		3	Pole/Log/XLog	9		Balsam Fir		High	Variable	Sapling	
Black Spruce		20	Pole/Log/Sap	7	86	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Northern White Cedar		38	Pole/Log	8	86	Michigan Holly		Low	5 - 10 feet	Tall Shrub	
Balsam Fir		15	Pole/Sapling	6		Red Maple		Low	Variable	Sapling	
Hemlock		2	Log/Pole	12		White Spruce		Low	Variable	Sapling	
Red Maple		8	Pole/Sap/Log	7							
Balsam Poplar		2	Pole/Log	9							
White Spruce		5	Pole/Log/XLog	8							
Tamarack		5	Pole/Log	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
48	4134 - Aspen, Spruce/Fir	Poletimber Well	7.4	55	111-140	N/A	Mix of mainly QA/BF, generally pole sized with QA diameters a bit larger in west. Small RP/WP component, those mostly located along southern boundary and in west. A few 20"+ super-canopy RP/WP scattered around. Site appeared dry, but transitional soils in east and north. Trace living PB (pole) and JP snags observed. BA swings= 130,140,100,100,150 (124avg).																																																																									
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49	6229 - Mixed lowland shrub	Nonstocked	5.9	0	Unspecified	No	Area of conifer tree mortality because of fluctuating water table and previous beaver activity. Now occupied with lowland shrub (alder) along the perimeter and some conifer saplings within interior locations. Somewhat of the headwaters/beginning of McIntosh Creek.																																																																									
50	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	10.6	89	111-140	N/A	Somewhat of a hardline within this stand that separates NWC dominance from spruce/mixed conifer dominance. NWC dominates closer to the McIntosh Creek corridor (Stand 94). More spruce/mixed conifer prior to that, with some upland ground. The southern tail is a drainage course with a broad mixture of species and sizes. Xlog WP/RP common and some legacy sized WP observed. BA swings= 100,140,200,110 (137avg).																																																																									
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51	42290 - Natural Mixed Pine	Sapling Medium	23.6	15	Immature	N/A	McDonald '12: Stand was cut in '07. A mix of Jack Pine and Q. Aspen is regenerating well. JSP: Primarily JP then scattered pockets of aspen. Minor mixing of other conifer and deciduous. Areas that are pretty well stocked, then other areas w/patchy low stocking or basically non-forested. There seemed to be more open areas in east 1/2 of stand, but west 1/2 had its fair share too. Calling overall closure of stand 50-75%. Minor, likely seasonal, wet areas in east near lowland Stand 47. These were swallow depressions that were holding water, some had alder. A few small pole sizes observed.																																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52	42290 - Natural Mixed Pine	Poletimber Well	38.8	55	51-80	N/A	McDonald '12: Small pole Jack Pine stand. Not ready for any management. JSP '22: Essentially very similar to Stand 58 but with a bit more JP and then somewhat fewer residual stems from previous harvest. Broad mixture of pine and conifer throughout, an encouraging mix to see. JP most common w/areas heavier to WP and some RP. Most stems small pole or larger sap size. Aged a JP 7.9" and 13.5" RP, both the same age (55yrs in '22). Scattered older log/xlog RP/WP that were obviously left from last harvest. A few areas in north, east and southeast w/somewhat larger DBH's here and there. Unclear if the narrow band that extends into Stand 51 was meant to be retention (for Std51). Holds some larger red pine. BA swings= 70,40,120,60,70,100,90 (78avg).
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
White Pine	20	Pole/Sap/Log	6		Black Spruce	Low	< 5 feet	Seeding
Bigtooth Aspen	4	Pole/Sap/Log	7		Balsam Fir	Medium	< 5 feet	Seeding
Black Spruce	2	Pole/Sapling	6		Red Pine	Low	Variable	Sapling
Quaking Aspen	2	Pole/Sapling	6		Black Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	8	Sapling/Pole	4		White Pine	Medium	10 - 20 feet	Sapling
Red Pine	10	Pole/Sap/Log	6	85				
Jack Pine	52	Pole/Sapling	6	55				

53	42290 - Natural Mixed Pine	Sawtimber Medium	24.2	96	51-80	N/A	McDonald '12: Stand had species removal in 1988. Good mix of pine. JSP '22: Current overstory BA is similar to a shelterwood. Stark difference between east and west halves. East is broadly similar to its neighbor Stand 58. Scattered residual WP/RP of smaller (usually) log sizes, then good mixture of regenerating conifer and some decid. West half is natural pine (RP/WP), of the larger/taller variety that is usually common closer to lowland interfaces. Generally higher BA and more of a closed-canopy in west. Sub-can is recruiting a mix of pine, fir and some spruce. Likely far less deciduous and JP were available for removal in the west during '88 cut. Stand as a whole has a very good mix of regen that's moving from sap into some pole sizes. Numerous ages too. BA swings= 50,50,90,70,80,90,50 (68avg).
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	4	Pole/Sapling	6	37	Black Spruce	Low	5 - 10 feet	Sapling
White Spruce	3	Log/Pole	11		Balsam Fir	High	Variable	Sapling
Quaking Aspen	2	Pole/Sapling	7		Red Pine	Low	10 - 20 feet	Sapling
White Pine	32	Log/Pole/XLog	13	64	Red Maple	Low	10 - 20 feet	Sapling
Red Pine	48	Log/Pole/XLog	14	96	Bigtooth Aspen	Low	>20 feet	Sapling
Red Maple	1	Log/Pole	10		White Pine	High	Variable	Sapling
Black Spruce	3	Pole/Sapling	7		Jack Pine	Low	>20 feet	Sapling
Balsam Fir	4	Pole/Sapling	6					
Bigtooth Aspen	3	Pole/Sapling	7	34				

54	42350 - Upland Hemlock	Sawtimber Well	2.4	94	111-140	N/A	McDonald '12: Small pocket of Hemlock that was not cut as part of a larger clearcut in '85. JSP '22: North narrow area is drier/was dry w/a lot of pit mounds. Southern bubble was wet, also had pit/mounds. Almost an even split of pole size and then log size hemlock. Some xlog/legacy size on perimeter areas (one was 31"). Core/interior has very little sub-can saps. Perimeter, especially west, is quite dense w/fir and some WP. Evidence that the removal harvest went through this stand in '85 (stump-sprout RM) and some large stumps (that look like hemlock). The xlog/legacy hemlock are likely older than the pole and small log hemlock. BA swings= 100,150,150 (133avg).
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole/Log	9	94	Black Spruce	Low	10 - 20 feet	Sapling
Hemlock	80	Log/Pole/XLog	11	94	Northern White Cedar	Low	10 - 20 feet	Sapling
White Pine	2	Log/Pole/XLog	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	3	Pole/Sapling	7		Red Maple	Medium	>20 feet	Sapling
Red Maple	4	Pole/Log/Sap	8		Hemlock	Medium	10 - 20 feet	Sapling
Paper Birch	3	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Black Spruce	3	Pole/Log	9		White Pine	Low	10 - 20 feet	Sapling
					Beech	Trace	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
55	4319 - Mixed Upland Forest	Sapling Well	21.4	37	1-50	N/A	Soil conditions strongly influencing stem sizes. Stand as a whole is still sapling (nearing pole size) dominant. Average DBH's are smaller where the ground is transitional or wet. Stems are a bit larger and pole sizes more common where truly upland. In the smaller western polygon, north of the Forest Rd, there's a a brief sub-acre pocket of A6 (mostly BTA). In the larger east polygon, the bubble west of H9 Stand 54 holds more pole sizes. A few older/residual WP/RP in the 'bubble' area too. The narrow strip south of the H9 stand is wet w/cedar with many pit/mound formations. A few scattered hemlock (log) in east portion of larger poly. The drainage (Stand 47) that now separates the polygons used to be part of this stand, looks like they cut through this drainage back in the 80's. BA swings= 70,70,0,0,70 (42avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	33	Sapling/Pole	4	37	Tag Alder	Low		5 - 10 feet	Tall Shrub
Quaking Aspen	33	Sapling/Pole	4	37	Black Cherry	Low		10 - 20 feet	Sapling
Red Pine	2	Log/Pole	12						
Northern White Cedar	5	Log/Pole	11	94					
White Spruce	2	Sapling/Pole	4						
White Pine	5	Sapling/Pole/Log	4						
Bigtooth Aspen	4	Pole/Sapling	7						
Black Spruce	5	Sapling/Pole	4						
Red Maple	8	Sapling/Pole	3						
Paper Birch	3	Sapling/Pole	4						
56	4134 - Aspen, Spruce/Fir	Sapling Well	13.3	34	1-50	N/A		Still sapling dominated yet many stems, mainly aspen, WP and some fir, have converted to pole size depending on location within the stand. Seasonal drainage in east that was moving water west. Observed a couple seeps too. Scattered WP, RP and NWC residuals, most of the pine are large log and xlog. Small inclusion of large WP/RP then smaller (L/P) spruce and NWC in south near lowland stand 64. That area appears to of been boundary excluded when last harvested.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Red Maple	20	Sapling/Pole	3	34	Black Cherry	Low	>20 feet		Sapling
Northern White Cedar	1	Log/Pole	11		Paper Birch	Low	>20 feet		Sapling
Jack Pine	1	Pole/Sapling	5		Tag Alder	Low	10 - 20 feet		Tall Shrub
Balsam Fir	12	Sapling/Pole	4	34	Witch Hazel	Low	5 - 10 feet		Tall Shrub
Black Spruce	4	Sapling/Pole/Log	3						
White Pine	12	Sapling/Pole/Log	4						
Red Pine	3	Sapling/Pole/Log	4						
Quaking Aspen	40	Sapling/Pole	4	34					
Balsam Poplar	3	Sapling/Pole	4						
White Spruce	4	Sapling/Pole/Log	4						
57	42210 - Natural Red Pine	Sawtimber Medium	14.8	90	51-80	N/A	McDonald '12: Nice stand of Red Pine that was thinned in '00. Cut again in '15 as a group selection cut. Sale name was Trailside Red Pine (53-022-14-01). JSP '22: Second (younger) age class represents the regen as a result of the '00 cut, which must of removed all deciduous. Monitoring Rx to assess regen as a result of '15 group selection cut was conducted in May '22. Overview; generally better advanced regen south of Road 12. White pine, spruce and fir is usually consistent but in a patchy manner. More aspen/RM south of road too, most the result of '00 cut. Red maple regen from '15 cut, though not much, is heavily browsed. Not as much regen north of Road 12, but some is present, and is a mix of '00 and '15 regen. Appears the '15 cut primarily stayed north of the High Country Pathway (that runs through the southern portion of the stand). Residual RP/WP stems looked healthy, some legacy size WP present and old/platy RP.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	20	Log/Pole/XLog	13		Bigtooth Aspen	Medium		>20 feet	Sapling
Balsam Fir	4	Pole/Sapling	6		White Spruce	Medium		10 - 20 feet	Sapling
Red Maple	4	Pole/Sapling	6	22	White Pine	Medium		< 5 feet	Seeding
Red Pine	70	Log/Pole/XLog	15	90	Paper Birch	Low		>20 feet	Sapling
Bigtooth Aspen	2	Pole/Sapling	6	22	Red Pine	Low		Variable	Sapling
					Balsam Fir	Medium		Variable	Sapling
					White Pine	Medium		5 - 10 feet	Sapling
					Red Maple	Medium		10 - 20 feet	Sapling
					Red Pine	Low		< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																									
58	42290 - Natural Mixed Pine	Poletimber Well	53.9	37	51-80	N/A	Apparently a removal harvest that either left all or some residual RP/WP. Stand at least 2-aged with the residual stems in clumps and scattered. Dominant P/S and S/P layer ranged 37-44yrs old (in '22). Older/scattered RP/WP ranged ~74-103yrs old (in '22). Very good/dense mixture of regen/younger stems. JP and WP are the dominant types, with lesser components of other conifer/decid. Still very much in conversion from sap to pole in many areas, though felt enough small pole sizes present to call it that overall size class. Xlog WP/RP not uncommon. The area east of the High Country Pathway wasn't treated with the rest of this stand. That location holds some older/larger deciduous species (RM, aspen, some PB). Trace hybrid oak (pole) present. BA swings= 50,100,100,60,100,70,70,90 (80avg).																																																																																									
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60	429 - Mixed Upland Conifers	Poletimber Well	7.4	58	81-110	N/A	East 1/2 is dry and on a gradual slope leading down to a beaver flooding. Fir/maple mixture w/other species in east. West 1/2 levels out and is located on transitional soils w/upland and lowland soils. West 1/2 likely dries out at times. Cedar prevalent in west mixing with fir, spruce, maple, birch and some aspen. Some blowdown/tip-ups in west. Patchy in center with a small opening, forest road leads to opening (permanent blind where road ends). Higher BA in west, mostly because of cedar stocking. BA swings= 70,100,180 (116avg).																																																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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61 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 29.3 74 81-110 N/A

Interior areas acting as a drainage course, flowing water present late winter/early spring of '22. Interior much wetter and more dominant with pole sized conifer. North end of stand against Road 12 is a small shrub swamp, water was flowing north across the road and into Stand 47. Outside of drainages, upland conditions common that mix w/seasonal lowland and swallow wet depressions. Larger stem sizes and more deciduous present in the 'upland' areas (usually red maple). Quite a few legacy size WP in the transitional upland w/low areas. Did not see all of the southern area, just the portion that contains the High Country Pathway (was moving water in late winter). Small component of L/P/XL red pine present. BA swings= 60,140,100 (100avg).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	8	Pole/Log	8	74	White Pine	Low	10 - 20 feet	Sapling
White Pine	8	Log/Pole/XLog	12		White Spruce	Medium	10 - 20 feet	Sapling
White Spruce	10	Pole/Log/XLog	9		Red Maple	Medium	>20 feet	Sapling
Red Maple	25	Log/Pole/XLog	12	74	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	15	Pole/Log	9		Black Spruce	Low	Variable	Sapling
Hemlock	1	Pole/Log/XLog	9		Balsam Fir	High	Variable	Sapling
Balsam Fir	18	Pole/Sap/Log	7		Paper Birch	Low	>20 feet	Sapling
Quaking Aspen	10	Log/Pole/XLog	14					

62 629 - Mixed non-forested wetland Nonstocked 10.3 Unspecified No

Area of very deceased cedar and other lowland species. The result of beaver flooding. Conifer and some deciduous saplings beginning to reclaim a few areas.

63 6122 - Black Spruce Poletimber Well 2.1 94 51-80 N/A

Spruce bog characteristics and a small wet stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Pole/Sap/Log	7		Balsam Fir	Medium	Variable	Sapling
Black Spruce	60	Pole/Sapling	7	94	Black Spruce	Medium	5 - 10 feet	Sapling
White Pine	20	Pole/Sap/Log	7		White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	8	Pole/Sapling	6		White Spruce	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	6					
Red Pine	2	Log/Pole	14					

64 6120 - Lowland Cedar Poletimber Well 77.7 117 81-110 N/A

McDonald '12: Creek flows through stand and has periodically flooded the stand causing some mortality. Larger lowland complex, primarily dominated by cedar. There were areas that were very dense with saplings and alder. Some pockets of large and xlog cedar in a few perimeter locations I traveled. Did not see the whole stand, was difficult get in and then get out of....

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	12	Pole/Sap/Log	8		Black Ash	Medium	10 - 20 feet	Sapling
Paper Birch	5	Pole	8		Balsam Fir	High	Variable	Sapling
Red Maple	5	Pole/Sap/Log	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Hemlock	2	Log/Pole	12		Balsam Poplar	Low	5 - 10 feet	Sapling
Balsam Poplar	3	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Balsam Fir	10	Pole	8		Black Spruce	Medium	Variable	Sapling
Northern White Cedar	58	Pole/Log/XLog	9	117	White Spruce	Medium	Variable	Sapling
White Pine	5	Log/XLog/Pole	16	117				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
65	6224 - Treed Bog	Nonstocked	4.5		Unspecified	No	Essentially a forested stand that resides atop a bog like complex. Spongy, saturated ground covered in moss, leatherleaf and some lab tea. A broad mix of white pine, spruce and fir is present. Majority of stems were running small pole or large sap size.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Leatherleaf		High		Tall Shrub		
		Michigan Holly		Medium	5 - 10 feet	Tall Shrub		
		Balsam Fir		Medium	>20 feet	Sapling		
		White Pine		High	>20 feet	Pole		
		Sphagnum Moss		High	Unspecified	Non-Wood		
		Labrador Tea		Medium		Tall Shrub		
		Black Spruce		Medium	>20 feet	Sapling		
		Ninebark		High	5 - 10 feet	Tall Shrub		
66	6120 - Lowland Cedar	Poletimber Well	15.0	104	171-200	N/A	McDonald '12: Nice cedar stand, but there are quite a few springs bubbling up and running through the adjacent swamp feeding McIntosh Creek. This area should be protected. JSP: Some scattered, small pockets of blowdown/tip-ups. Some xlog NWC and RM observed. BA swings= 250,200,120,200 (192avg)	
		Canopy Species		% Cover	Size Class	DBH		Age
		Red Maple		5	Log/Pole	11		
		Paper Birch		8	Pole/Log/Sap	7		
		Black Spruce		6	Pole/Log	9		
		Northern White Cedar		75	Pole/Log/Sap	8		104
		White Pine		2	XLog/Log	20		
		White Spruce		4	Pole/Log	9		
		Sub-Canopy Species		Density	Avg. Height	Size		
		Black Spruce		Low	Variable	Sapling		
		Red Maple		Low	10 - 20 feet	Sapling		
		Tag Alder		Medium	5 - 10 feet	Tall Shrub		
		Black Spruce		Medium	< 5 feet	Seeding		
		Balsam Fir		High	Variable	Sapling		
67	429 - Mixed Upland Conifers	Poletimber Well	18.2	33	1-50	N/A	Stand still very much in transition from sapling to pole sizes. Seemed to be enough pole sizes present to label that the overall size. Patchy stocking in areas, some the result of beaver activity. Most of the white pine is shrubby, likely from weevil damage. BA swings= 40,60,30 (43avg)	
		Canopy Species		% Cover	Size Class	DBH		Age
		White Spruce		4	Pole/Sapling	5		
		Quaking Aspen		28	Pole/Sapling	6		33
		Red Pine		1	Sapling/Pole	4		
		Northern White Cedar		1	Pole/Log	9		
		White Pine		24	Pole/Sapling	6		
		Black Cherry		4	Sapling/Pole	4		
		Red Maple		4	Sapling/Pole	3		33
		Balsam Poplar		3	Pole/Sapling	5		
		Black Spruce		3	Sapling/Pole	3		
		Balsam Fir		28	Pole/Sapling	5		33
		Sub-Canopy Species		Density	Avg. Height	Size		
		Tag Alder		Low	10 - 20 feet	Tall Shrub		
68	6229 - Mixed lowland shrub	Nonstocked	17.1	0	Unspecified	No	Observed from edge(s) and a few interior locations in west half. East 1/3 has more/scattered lowland shrubs and a likely old beaver dam. Central 1/3 a mix of lowland conifer tree species/more dense with lowland shrubs. West 1/3 wasn't holding water and was a mix of grasses, tree saplings on perimeter and scattered lowland shrubs. Older beaver dam in west too. Small creek with westerly flowing water hugs the southern boundary, observed during break-up season. A likely seasonal feeder to McIntosh Creek.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Tag Alder		Medium	10 - 20 feet	Tall Shrub		
		Balsam Fir		Low	>20 feet	Pole		
		Northern White Cedar		Low	>20 feet	Pole		
		White Pine		Low	>20 feet	Log		
		Willow spp.		Medium	5 - 10 feet	Tall Shrub		
		Black Spruce		Low	>20 feet	Pole		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
69	4139 - Aspen, Mixed Deciduous	Sawtimber Well	8.2	64	111-140	N/A	Formally Stand 13/Comp 4. Borderline A and/or MD covertype. West 1/3rd heavy to BTA, mixing with RM. Center primarily M9/MD9, then east 1/3rd reverts back to aspen. Some patchy/small open areas. Two seasonal lowland areas. One very minor in southeast against A3 Stand 24. The other in north and much more obvious. Had all the signs of being a smaller vernal pool complex, was still holding water in swallow depressions (May '22). Soft maple is larger/marginal multi-stem quality, aspen is decent quality and generally smaller log sized. A few scattered log/xlog WP present and some RP that sneaks in from R6 Stand 12 and LM6 Stand 21. BA swings= 120,100,230,170,150 (154avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Ironwood	2	Log/Pole	10		White Spruce	Low		10 - 20 feet	Sapling
Sugar Maple	6	Log/Pole	11		Paper Birch	Low		>20 feet	Sapling
Beech	1	Log/XLog	17		Red Pine	Trace		10 - 20 feet	Sapling
Bigtooth Aspen	32	Log/Pole	11	64	Ironwood	Low		10 - 20 feet	Sapling
Balsam Fir	8	Pole/Sap/Log	7		White Pine	Low		10 - 20 feet	Sapling
White Pine	2	Log/Pole/XLog	14		Balsam Fir	High		Variable	Sapling
Quaking Aspen	10	Log/Pole	10		Serviceberry (Juneberry)	Low		5 - 10 feet	Sapling
Paper Birch	10	Pole/Sap/Log	8		Red Maple	High		>20 feet	Sapling
Red Maple	28	Log/Pole/XLog	12						
White Spruce	1	Pole	7						
70	42290 - Natural Mixed Pine	Sawtimber Well	4.8	106	141-170	N/A		McDonald '12: This stand has been left uncut to provide some age/size class diversity within the compartment. JSP '22: Evidence of a long ago deciduous removal (RM growing off the stump). Like its neighbor Stand 71, an impressive mixture of larger and tall natural RP/WP. Many of the pine stems are hovering around large log and/or xlog sizes. Minor components of remaining species. Fir in sub-can on the high side of 'high density' if not 'full'. Then areas less dense with fir. BA swings= 150,180,170 (166avg).	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Balsam Fir	2	Pole/Sapling	7		Balsam Fir	High	Variable		Sapling
Paper Birch	4	Pole	7		White Spruce	Low	5 - 10 feet		Sapling
Red Maple	5	Log/Pole	11		White Pine	Low	>20 feet		Sapling
Quaking Aspen	3	XLog/Log	18		Red Maple	Low	>20 feet		Sapling
Black Spruce	3	Pole	7						
White Pine	30	Log/Pole/XLog	17	106					
White Spruce	3	Pole/Log/XLog	8						
Red Pine	50	Log/Pole/XLog	17	106					
71	42200 - Natural White Pine	Sawtimber Well	5.9	106	111-140	N/A	McDonald '12: This stand has been left for some age/size class diversity within the compartment. JSP '22: Similar in size (DBH) and height as its neighbor Stand 70. Impressive, generally large WP with a smaller presence of RP. Likely had a deciduous removal many years ago (RM is stump-sprout origin). Sub-can fir not consistently dense but is present throughout. Observed trace hemlock (pole). BA swings= 210,140,120,130 (150avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern White Cedar	1	Log	11		Balsam Fir	High		10 - 20 feet	Sapling
White Pine	68	Log/Pole/XLog	17	106	White Pine	Low		10 - 20 feet	Sapling
Red Pine	12	Log/XLog/Pole	17	106	White Spruce	Low		10 - 20 feet	Sapling
Bigtooth Aspen	6	Log/Pole/XLog	12		Red Pine	Trace		5 - 10 feet	Sapling
Paper Birch	2	Pole	8		Red Maple	Low		>20 feet	Sapling
Quaking Aspen	2	Log/Pole/XLog	12						
Balsam Fir	1	Pole/Sapling	6						
Red Maple	8	Pole/Sap/Log	7						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
72	4319 - Mixed Upland Forest	Sapling Well	35.8	34	1-50	N/A	Broad mix of aspen, fir, spruce and white pine. Scattered residual NWC and hemlock left from harvest. Interior areas of low ground that likely dry out but were populated w/lowland shrub types. BAM not uncommon throughout stand too. Quite pit/moundy in most areas I traveled. Snow melt water was moving west in areas, into adjacent lowland. Observed a fair amount of BlkSpruce (S/P) but didn't have room for it in canopy species. Trace RP P/S and Scotch pine S/P.				
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
White Spruce		5	Sapling/Pole		3			Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		24	Sapling/Pole		4	34		Wild Raisin	Low	5 - 10 feet	Tall Shrub
White Pine		24	Pole/Sap/Log		5						
Balsam Fir		24	Sapling/Pole		4	34					
Northern White Cedar		2	Pole/Log		9						
Red Maple		5	Sapling		3						
Hemlock		3	Log/Pole/XLog		14						
Balsam Poplar		10	Sapling/Pole		3						
Paper Birch		3	Sapling		3						
73	500 - Water	Nonstocked	1.3		Unspecified	No	Flooded area with lowland shrubs along the perimeter and interior locations.				
Sub-Canopy Species		Density	Avg. Height		Size						
Alder		Low			Tall Shrub						
Willow spp.		High	5 - 10 feet		Tall Shrub						
74	4319 - Mixed Upland Forest	Poletimber Well	24.2	36	51-80	N/A	Additional species include Hemlock 2% L/P, NWC 2% L/XL, RP 1% P, Hard Maple trace P. Generally pole sized w/a lot of stems still in conversion from sap to pole. Majority of stand is upland with some perimeter interfaces featuring transitional/softer soils. A few residual log/xlog NWC/WP observed. High Country Pathway travels through stand. BA swings= 40,90,90 (73avg).				
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
White Pine		4	Pole/Log/XLog		8			Sugar Maple	Low	>20 feet	Sapling
Quaking Aspen		38	Pole/Sap/Log		6	36		Ironwood	Low	10 - 20 feet	Sapling
Bigtooth Aspen		3	Pole/Log		9						
Balsam Fir		38	Pole/Sapling		6						
Black Cherry		3	Sapling/Pole		4						
Paper Birch		4	Pole/Sapling		5						
Red Maple		6	Sapling/Pole		4						
White Spruce		4	Pole/Log		8						
75	4319 - Mixed Upland Forest	Poletimber Well	15.6	56	81-110	N/A	Consistently inconsistent, was tough on the brain. McDonald stated stand had a winter deer cut in the 60's ('66 based on age). From my observation, it appears that the south 1/2 to 2/3rds was cut. That area is generally quite dense with sap/pole, pole/sap BF, RM, QA and some spruce/BTA. Remaining northern portion has a variety of stems that are larger/more mature. Throughout the cut/and uncut are xlog hemlock, NWC, some Wht spruce. Numerous legacy sized WP present too, saw one xlog RP. Overall calling pole sized yet size classes can change somewhat rapidly depending on location. Seasonally wet ground in perimeter locations. Small/flowing water course in east against Stands 72/77. BA swings= 150,90,160,70,80 (110avg).				
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		4	Pole/Sapling		6			Red Maple	High	>20 feet	Sapling
Quaking Aspen		18	Pole/Sap/Log		6	56		Beech	Trace	5 - 10 feet	Sapling
White Spruce		4	Pole/Log/XLog		8			White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen		6	Pole/Log		8			Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar		3	Log/Pole/XLog		16			Balsam Fir	High	Variable	Sapling
Balsam Fir		30	Sapling/Pole/Log		4	56		Ironwood	Low	>20 feet	Sapling
White Pine		10	XLog/Log/Pole		22	115		Red Oak	Trace	>20 feet	Sapling
Red Maple		20	Pole/Sap/Log		5						
Hemlock		5	Log/XLog/Pole		16						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
76	42200 - Natural White Pine	Sawtimber Medium	15.8	120	51-80	N/A	Species removal in '98, left all RP, WP and some spruce. Most WP/RP are xlog or plus/minus a few inches in either direction. Primarily conifer in sub-can, most still sap size w/some stems converting to small pole. Still snow-covered during site visit but there appeared to be lower/wetter areas that likely move water to/from surrounding lowland(s). Nice mix of older/larger stems above younger/dense sub-can. A few larger WP snagging out, becoming valuable/future standing dead. BA swings= 50,100,40 (63avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	18	Log/XLog/Pole	17		White Pine	High		10 - 20 feet	Sapling
White Pine	70	XLog/Log/Pole	18	120	Balsam Fir	Full		10 - 20 feet	Sapling
White Spruce	4	Log/Pole	12		Quaking Aspen	Low		10 - 20 feet	Sapling
Balsam Fir	4	Pole/Sapling	6		White Spruce	Medium		Variable	Sapling
Black Spruce	4	Pole/Sapling	6		Black Spruce	Medium		Variable	Sapling
					Red Maple	Low		10 - 20 feet	Sapling
77	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.6	94	1-50	N/A	Didn't see much of this stand, difficult to get into. Was very wet/mucky on west end, had a dense and broad mixture of sap/pole conifer. Scattered pole and some log sized timber. A walkable portion in south that featured a higher stocking of pole/log NWC/spruce and some WP. Water course was flowing east through stand. East side of stand had some standing dead and blowdown.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	3	Log/XLog/Pole	16		Balsam Fir	High		Variable	Sapling
Quaking Aspen	4	Log/Pole	11		Tag Alder	Medium		5 - 10 feet	Tall Shrub
Paper Birch	6	Pole/Sapling	6						
Balsam Fir	30	Pole/Sapling	5						
Black Spruce	12	Pole/Sap/Log	6						
Northern White Cedar	30	Pole/Log	8	94					
Red Maple	10	Sapling/Pole/Log	4						
78	6124 - Lowland Spruce-Fir	Poletimber Well	10.5	102	111-140	N/A	Varying dominance of cedar and/or/then spruce. Generally minor components of remaining species mixing in. Some large log and xlog NWC observed. Large/some legacy WP present along perimeter. Some older and larger QA and RM on perimeter too. More red maple saps from removal harvests in adjacent stands sneak into eastern parts of the stand. BA swings= 90,140,170 (133avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce	8	Log/Pole	11		Balsam Fir	Medium		Variable	Sapling
Paper Birch	3	Pole	7		Black Spruce	Low		5 - 10 feet	Sapling
Balsam Fir	5	Pole/Sapling	6		Tag Alder	Medium		5 - 10 feet	Tall Shrub
Tamarack	5	Log/Pole	16		Red Maple	Medium		>20 feet	Sapling
Black Spruce	37	Pole/Log	8	102					
Northern White Cedar	37	Pole/Log/XLog	9						
White Pine	5	Pole	8						
79	6112 - Lowland Aspen	Sawtimber Medium	7.3	65	51-80	N/A	Lowland corridor featuring a mix of species depending on location. Core areas prevalent with blowdown, generally lower can-closures and high/full BlkAsh saps. Perimeter has far less blowdown, higher can-closure and heavier to QA/BF, then some hemlock/cedar and NHD species in spots. Southern portion a bit higher stocked too (QA). In core area; more RM in north, then some clumps of NWC near center, QA/BAM increases in south. Majority of the living BAM is nearing the end, if not already standing dead/blowdown. High Country Pathway on west boundary. BA swings: 100,70,20 (63avg)		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Yellow Birch	3	Pole/Sap/Log	6		White Spruce	Low		5 - 10 feet	Sapling
Quaking Aspen	34	Log/Pole	10	65	Black Ash	High		Variable	Sapling
Balsam Fir	12	Pole/Sap/Log	7		Yellow Birch	Low		>20 feet	Sapling
Balsam Poplar	12	Log/Pole	10		Balsam Poplar	Low		5 - 10 feet	Sapling
White Spruce	2	Log	14		Beech	Low		5 - 10 feet	Sapling
Hemlock	6	Log/Pole	10		Balsam Fir	Medium		Variable	Sapling
Northern White Cedar	16	Log/Pole/XLog	11	120	Ironwood	Low		10 - 20 feet	Sapling
Basswood	3	Log/Pole	12		Sugar Maple	Low		10 - 20 feet	Sapling
Red Maple	10	Pole/Sap/Log	8		Red Maple	Low		>20 feet	Sapling
American Elm	2	Log/Pole	12						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																					
80	429 - Mixed Upland Conifers	Sapling Well	18.3	24	51-80	N/A	Species removal in '98, left pine/hemlock. Now a dense sapling layer throughout with a heavy component of residual white pine in the central portion of the stand. The 'ends' had little or no residual WP. Stand borders lowland on east and beaver dam flooding in south. Another 'lower looking area' in the north, west of the old overgrown haul route. Small inclusions of cedar/lowland species along east boundary. BA's erratic, high where residual WP is present, and vice-versa. Trace BlkChrry (S/P) and RP (L/P).																																																																																					
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81	629 - Mixed non-forested wetland	Nonstocked	11.9		Unspecified	No	Beaver dam origin flooded area. Beaver built their dam against the old haul route used in late 90's when stands to west/north were treated. Pondered/flooded area extends south of the dam/haul route. Outflow from dam flows north. A Lot of standing dead (mostly NWC) and blowdown on either side of the dam. All appearances suggest beavers are still active in this area. Conifer saps are establishing in down stream locations. 2020 IR imagery shows the mortality quite well.																																																																																					
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82	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	8.2	137	141-170	N/A	Evidence of previous deciduous removal, RM/HM mainly growing off the stump and younger (estimated that age). So this stand is somewhat 2-aged. Trace BF P/L, QA P. Generally appeared upland but western areas become transitional/wet. Large/impressive hemlock, WP and some NWC. Many of the WP were well over legacy size (MiFI wouldn't allow Xlog/Log size to be listed above). A southern portion of Stand 77 could be merged into this stand, but was much more NWC/Spruce dominant/wetter. This stand essentially extends east into adjacent comps, however, those areas didn't appear to of had the same removal harvest history. BA swings= 130,150,170,170 (155avg).																																																																																					
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83	42200 - Natural White Pine	Sawtimber Well	10.4	98	111-140	N/A	Species removal in '98, left all pine. Now some what 2-aged, decent component of saps in areas, other areas less dense. Impressive smaller stand of mainly WP, most clean/straight, some legacy sizes observed. Variable can-closure depending on location. White pine saps teetering on 'high' density. BA swings= 50,120,170 (113 avg).																																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
84	4119 - Mixed Northern Hardwoods	Poletimber Well	36.5	55	81-110	N/A	Mixture of NHD species, aspen and conifer. Majority of stand still very much pole/sap size. Southern area of the larger east polygon a bit more stable w/NHD species. Remainder of larger poly tends to mix more with aspen and conifer. Small west polygon is high/full with mostly P/S and S/P hard/red maple, but has a decent component of larger QA (some BTA) throughout and overtop. Hemlock very common in swatches, clumps and singles, obviously left when stand was last harvested. Softer, transitional ground near the closed haul rd. BA's higher is dense pockets of hemlock. BA swings: 110,140,90,90,110 (108avg). Trace amounts of BE, BTA and YB observed.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Hemlock	10	XLog/Log	18	120	Sugar Maple	High	>20 feet	Sapling		
Basswood	1	Pole/Sap/Log	7		Red Maple	High	>20 feet	Sapling		
Black Cherry	1	Pole/Sapling	5		Balsam Fir	Medium	10 - 20 feet	Sapling		
Sugar Maple	28	Pole/Sapling	5	55	Paper Birch	Low	>20 feet	Sapling		
Paper Birch	8	Pole/Sapling	7		Ironwood	Medium	10 - 20 feet	Sapling		
Quaking Aspen	12	Pole/Log	8							
Balsam Fir	5	Pole/Sapling	7							
Red Maple	35	Pole/Sap/Log	7	55						
85	4134 - Aspen, Spruce/Fir	Sapling Well	21.5	32	51-80	N/A	Additional species present include BAM 3% P/S, Hemlock 2% L, NWC 1% P/L, Elm trace P/S. The minor percentage species listed in canopy section are actually a few %'s higher on the ground, ran out of room above to show that. High Country Pathway runs along east boundary of stand. Still very much in transition from sap to pole. Areas heavier to aspen/fir have just converted. While areas with more maple are still sap sized. More deciduous south of old haul route, increased conifer north of the route. At least two seasonal drainages in south, flow west into adjacent lowlands/beaver flooding. Patchy stocking present, mainly in western and northern areas. Some of the RM has been repeatedly browsed. BA swings= 60,20,80 (53avg).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen	40	Pole/Sapling	6	32	Ironwood	Medium	10 - 20 feet	Sapling		
Paper Birch	18	Pole/Sapling	5							
Balsam Fir	18	Pole/Sapling	5							
White Pine	3	Pole/Sap/Log	8							
Sugar Maple	8	Sapling/Pole	3							
White Spruce	3	Sapling/Pole	4							
Red Maple	7	Sapling/Pole	4							
Black Cherry	3	Sapling/Pole	4							
86	4319 - Mixed Upland Forest	Poletimber Well	34.8	55	111-140	N/A	Trace amount of BAM (pole) and WhtSprc (log), a few legacy WP along northern boundary. Inconsistent DBH's throughout with a fairly broad range of species depending on location. Brief southern area holds the more merch size aspen mixed w/high P/S and S/P component of HM/some RM. Northern locations move into heavier fir dominance, aspen dominance and/or both. Wide range of of DBH's in north, but generally med-size pole. About a 1-chain swath along west boundary that appears to be seasonally wet (where NWC was present). BA swings= 120,90,110,110,180 (122avg). North Country Pathway is essentially the west boundary.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple	8	Sapling/Pole	4	55	Sugar Maple	High	>20 feet	Sapling		
Northern White Cedar	1	Log/Pole	12		Red Maple	Medium	>20 feet	Sapling		
Red Maple	5	Pole/Sapling	6	55	Ironwood	Low	>20 feet	Sapling		
Balsam Fir	35	Pole/Sapling	7		American Elm	Trace	>20 feet	Sapling		
Paper Birch	5	Pole/Sapling	7		Paper Birch	Medium	>20 feet	Sapling		
Quaking Aspen	40	Pole/Log/Sap	7	55	Balsam Fir	High	Variable	Sapling		
Hemlock	4	XLog/Log	18	120						
Bigtooth Aspen	1	Pole/Log	9							
White Pine	1	XLog/Log/Pole	20							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
87	4134 - Aspen, Spruce/Fir	Sapling Well	37.6	33	1-50	N/A	BAM 2% (S/P) and BlkSprc 3% (S/P) present. Quite a few stems that have converted to pole sizes, and many that haven't too. Majority of QA around 5", plus/minus an inch or so. Some larger QA stems on/near edges. BF, WS and WP pole sized in areas, than not so much in other areas. RM lagging behind the most. Though snow-on during visit, minor seasonally wet low-ground appeared likely in several areas. Stand should be a bit more uniformly pole sized by next entry. NWC and some WP are residual from previous harvest.																																																																								
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88	4119 - Mixed Northern Hardwoods	Sawtimber Well	28.9	96	81-110	N/A	McDonald '17: Stand cut in 2017. Burleys North Hardwood (53-019-14-01) JSP '22: Residual stems are generally high quality and doing well (couple tip-ups present). Some large xlog stems of all species throughout. BW and Hem being consistently larger. Regen is the same old story. Areas either dominated by WhtAsh (3-6ft tall) and/or IW (3-5ft), then beech in spots (5-10ft). More ash in south and is 'Full' in areas. IW comes on in center and extends east, also 'Full' in areas. Increased amount of BE regen near/east of Osmun Rd. All three species the result/response of most recent selection. Full sugar maple seedlings throughout, most 0.5ft tall or less. I see that a lot and don't have much confidence that those seeds will recruit/amount to anything (nice to see though). Browse prevalent on HM, ash and especially any RM (saw very few that were even trying to sprout off the stump, again). Softer, some wet ground in near Osmun Rd. BA swings= 90,70,110,90,120 (96avg)																																																																								
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89	4119 - Mixed Northern Hardwoods	Poletimber Well	21.0	54	81-110	N/A	Pole stand primarily dominated by stump-sprout RM with strong components of hard maple, PB, BlkCherry and xlog/log hemlock (residual from when last harvested). Aspen present but is concentrated along Osmun Rd, giving it the appearance that it is more prevalent than it actually is. Pit and mounds common as you move closer to interface with lowland Stand 13. Many of the depressions still holding water when visited. Most of the species in sub-can are the same age as canopy species but suppressed. Trace amount of BAM, cedar, a few live WhtAsh and basswood. BA swings= 130,140,90,80,80,80,160,140 (112avg).																																																																								
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90	3301 - Low Density Deciduous Trees	Nonstocked	1.0		Unspecified	No	Small low-density deciduous opening. There's some pole BAM on west, then a couple of large wolffy maple and a basswood closer to Osmun Rd. One apple tree too. Rubus/raspberry patch in and old High Country Pathway sign in west.																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
91	42210 - Natural Red Pine	Sawtimber Well	6.2	68	171-200	N/A	Three small but distinct areas of what appear to be natural red pine. Each polygon is a little bit different, mainly what kind of minor species they include. Northern most poly includes an area that was formally non-forested but in now populated with a fair amount of advanced WP/RP regen. BA swings= SE: 290,170 SW: 160,130 North: 170,190 (185avg across all three).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		90	Log/Pole/XLog	12	68	Red Pine		Low	Variable	Sapling	
Red Oak		1	Log/XLog	17		Balsam Fir		Low	5 - 10 feet	Sapling	
Red Maple		2	Pole/Sap/Log	6		White Pine		Low	Variable	Sapling	
Bigtooth Aspen		2	Pole/Log/Sap	7		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Balsam Fir		1	Pole/Log	8		Black Spruce		Low	Variable	Sapling	
Quaking Aspen		1	Pole/Log	9							
Paper Birch		1	Log	12							
Jack Pine		1	Pole	7							
White Pine		1	XLog	18							
92	429 - Mixed Upland Conifers	Sawtimber Well	4.9	64	51-80	N/A		Mixed species stand sitting on mostly dry ground except for some slightly wet areas at the southeast corner. Some scattered small areas of lower stocking. Good quality spruce and fir. White pine varies in quality, most are nice but a few are open-grown trees with past weevil damage. Several legacy size white pine scattered throughout. Paper birch component is mostly north of the road. Trace of red pine in the overstory. Average ba/acre from 5 plots = 76 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Balsam Fir		40	Pole/Log	8	64	Balsam Fir			High	Variable	Sapling
White Spruce		4	Log/Pole	10		Paper Birch			Trace	>20 feet	Sapling
Northern White Cedar		1	Log	11		White Spruce			Trace	Variable	Sapling
Bigtooth Aspen		2	Log/Pole/XLog	11		Red Maple			Low	Variable	Sapling
Quaking Aspen		5	Pole/Log	8							
White Pine		25	Log/XLog/Pole	14							
Paper Birch		2	Pole	7							
Red Maple		21	Log/Pole	10							
93	4130 - Aspen	Poletimber Well	23.5	56	81-110	N/A	Moderate quality aspen stand. Not sure of the harvest history of this stand but there is a second age class of older, larger bigtooth aspen scattered throughout the stand. Most of the trees are still healthy but a few have lots of rot and are good wildlife trees. Fir influence is mostly at the north edge of the stand. White pine component is more common further south. Old fire-charred white pine stumps, some very large, are scattered throughout the north half of the stand. Oak is rare throughout but there is a small clump at the far southwest corner of the stand, south of the road. Trace of XL-sized white pine, including a legacy size tree. Trace of beech poletimber. Average ba/acre from 12 plots = 108 square feet. Gently rolling terrain. The entire stand is upland but starts to transition to wetter ground along the north edge.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		1	Log/XLog	15		Witch Hazel		Trace	5 - 10 feet	Tall Shrub	
White Pine		5	Log/Pole	12		Red Maple		Medium	Variable	Sapling	
Red Maple		13	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling	
Quaking Aspen		9	Pole	7	56	White Pine		Low	Variable	Sapling	
Bigtooth Aspen		60	Pole/Log/XLog	8	56	Red Oak		Trace	>20 feet	Sapling	
Paper Birch		1	Pole/Log	8		Paper Birch		Trace	>20 feet	Sapling	
Balsam Fir		10	Pole	7		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
White Spruce		1	Pole	6		Black Cherry		Trace	>20 feet	Tall Shrub	
94	6229 - Mixed lowland shrub	Nonstocked	7.3		Unspecified	No		McIntosh Creek's initial outflow corridor. Heavily populated with alder, creek bed is quite narrow and flows south. Conifer tree species (NWC, spruce, etc) jut in/across the corridor in several locations. North end against Stand 44 appeared to be a very old beaver dam. Another dam likely located at the south end of the corridor/stand.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
95	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	1.7	86	81-110	N/A	Wet swamp hardwoods with mixed softwood																																																																
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96	42210 - Natural Red Pine	Sawtimber Well	2.2	72	81-110	N/A	Small stand of mainly natural RP, likely fire origin, mixing w/minor amounts of deciduous and conifer. RP stocking increases as you move south towards lowland. Fairly dense sub-can of BF throughout. Small open areas along perimeter w/Stand 43.																																																																
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97	790 - Other Bare/Sparsely Vegetated	Nonstocked	9.5	0	Unspecified	4319 - Mixed Upland Forest	<p>Scheele '18: Treatment completed as part of Aspen Pure-EH (52-107-14-01). JSP '22: Some history first. All SOM land in Section 16 formally belonged to Gaylord Comp 52182 and was previously inventoried by J.Scheele (with help from Roell/T.St.Pierre) in 2011. This stand was set-up sold as the Indian River F.O. sale listed above. In 2020/21, unit boundaries were reviewed/alterd and PRC FMU absorbed the Gaylord FMU lands located south of Walker Rd. Now specific to this stand (97), Stand 118 formally part of this stand. Stand 97 has thus far not regenerated successfully. I never saw Stand 97 prior to harvest but imagine this area was heavier to fir/spruce/conifer based upon imagery. At present, I'd estimate overall canopy closure of regen between 0-35% depending on location (visited prior to leaf-out too). Browse not so much an issue as many areas have nothing growing to browse on. Monitor treatment calls for a covertime objective of Upland Fir, acceptable regen being moderate/well stocked mix of aspen and deciduous/coniferous species. Recommending fail/close the current monitor Rx and add a new monitor to be checked in 5-years (start date 10/1/2026). Conifer may just need more time to establish. Some larger/scattered residual white pine present but did not appear to be contributing to lack of regen (from shading).</p>																																																																
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98	4319 - Mixed Upland Forest	Poletimber Well	11.6	55	81-110	N/A	Stand includes trace amounts of NWC (L/P), Elm (pole), WP (P/L/Legacy). About 2% BAM (P/L). Split out of Stand 86, though not terribly different (this stand has smaller DBH's/less aspen). West portion is a seasonally wet water course and lower stocked. East is a band of conifer/mixed decid. East gets softer w/pit-mounds as you get closer to L0 Stand 68. Same/similar age as Stands 84/86, hemlock left when last harvested. Hemlock in swathes, clumps and singles. BA swings= 120,100,90 (103avg). BA lower in west soft/wet/water course.																																																																										
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99	6229 - Mixed lowland shrub	Nonstocked	0.8	0	Unspecified	No	Core portion located in a shallow, generally non-forested depression that holds water flowing to and from McIntosh Creek. Was essentially dry during my visit but had all the lowland indicators. Scattered conifer and deciduous depending on location. Looks like water travels to or from Stand 4, Comp9 during times of excessive precipitation.																																																																										
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100	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	9.4	24	1-50	N/A	Northern portions contain more WP, BF and additional conifer, generally sap/pole before becoming more deciduous dominant in southern areas. Beaver flooding in northeast and lowland interface on east and south perimeter. Scattered residual from '98 removal harvest consists of WP (xlog), Hemlock (L/XL) some NWC and then very few RP (xlog).																																																																										
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101	3102 - Grass	Nonstocked	0.9		Unspecified	No	Formally part an opening, guess it still is but was used as the landing location when Stand 34 was harvested in '18. Relatively 'clean' from harvest debris but still healing.																																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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102	429 - Mixed Upland Conifers	Poletimber Well	4.4	64	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	16	Pole/Log/Sap	7	
Balsam Fir	28	Pole/Log/XLog	8	64
White Spruce	12	Log/Pole/XLog	11	
Paper Birch	5	Pole/Log	8	
Tamarack	2	Log/XLog	16	
Red Maple	8	Pole/Log/XLog	8	
White Pine	2	XLog	35	
Black Cherry	3	Pole	7	
Quaking Aspen	22	Pole/Log/XLog	9	
Red Pine	2	XLog	24	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	Variable	Sapling
Red Maple	Medium	>20 feet	Sapling
Black Spruce	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

Small stand of fir, spruce, aspen, maple and some pine/larch. Generally ~pole dominant but log/xlog conifer/deciduous stems were common. A super-wolffy WP likely 40"+ present and a few obviously older and platy RP. Some old/large charred stumps present. Pit/mounds with uneven ground throughout, soft/wet ground on west against lowland shrub/flooded Stand 103. Stand is essentially blocked by the stream/drainage corridor located in Stand 7. BA swings= 110,110,100 (106avg).

103	6229 - Mixed lowland shrub	Nonstocked	0.7	0	Unspecified	No	
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Flooded area of mixed lowland shrub. The larger parent stand is located on private. A small stream flows into/out of the small piece of this stand that is located on state. Drainage corridor/stream continues through Stand 7. DNR survey corner located right next to the stream. The old railroad grade very likely affecting hydrology here.

104	4130 - Aspen	Sapling Medium	26.1	4	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Ironwood	18	Sapling	1	
Bigtooth Aspen	38	Sapling	1	4
Red Maple	3	Sapling	1	
Balsam Fir	8	Sapling	1	
Quaking Aspen	30	Sapling	1	4
Balsam Poplar	3	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Low	Unspecified	Non-Wood
Balsam Fir	Low	< 5 feet	Seeding
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub

Scheele '18: Treatment complete on 4-15-19 as part of Aspen Pure-EH (52-107-14-01).
JSP '22: Some history first. All SOM land in Section 16 formally belonged to Gaylord Comp 52182 and was previously inventoried by J.Scheele (with help from Roell/T.St.Pierre) in 2011. This stand was set-up sold as the Indian River F.O. sale listed above. In 2020/21, unit boundaries were reviewed/alterd and PRC FMU absorbed the Gaylord FMU lands located south of Walker Rd.

Now specific to this stand (104), Stand 104 thus far is regenerating moderately well, regen looked better than Stand 106. I never saw this stand prior to harvest but imagery shows a mixture of deciduous/conifer. Didn't make it all the north but could see it, looked like decent aspen regen. Ironwood regen not as strong as Stand 106 (3-5ft) and more consistent/larger areas of aspen regen. The southern ends of both stands had very little regen when visited. At present, I'd estimate overall canopy closure to be at least 50% (visited prior to leaf-out too). Nearly all red maple is heavily browsed, percentage listed above are stems that were nearing/might make it above browse height. Monitor treatment calls for a covertime objective of Aspen/Mixed Deciduous (A-covertime), acceptable regen being moderate/well stocked mix of aspen and deciduous species. Recommending fail/close the current monitor Rx and add a new monitor to be checked in 5-years (start date 10/1/2026). More aspen/decid/conifer might fill in during that time. A few scattered residual white/red pine, hemlock and cedar present but did not appear to be contributing to lack of regen (from shading). Some areas of wetter ground present, including a small cattail march west of the small retention island.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																				
105	42200 - Natural White Pine	Sawtimber Well	1.3	108	51-80	N/A																																																																																					
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106	4199 - Other Mixed Upland Deciduous	Sapling Poor	32.0	4	Immature	N/A	<p>Scheele '18: Treatment completed as part of Aspen Pure-EH (52-107-14-01). JSP '22: Some history first. All SOM land in Section 16 formally belonged to Gaylord Comp 52182 and was previously inventoried by J.Scheele (with help from Roell/T.St.Pierre) in 2011. This stand was set-up sold as the Indian River F.O. sale listed above. In 2020/21, unit boundaries were reviewed/alterd and PRC FMU absorbed the Gaylord FMU lands located south of Walker Rd. Now specific to this stand (106), Stand 106 thus far has mixed regeneration results. I never saw this stand prior to harvest but imagery shows areas heavier to deciduous and areas heavier to conifer. Didn't make it all the north but could see it, looked like decent aspen regen. A lot of ironwood regen (3-5ft) and patchy/pockets of aspen regen. Some areas had decent aspen regen but wasn't always consistent. At present, I'd estimate overall canopy closure plus/minus 50% (visited prior to leaf-out too). Nearly all red maple is heavily browsed, percentage listed above are stems that were nearing/might make it above browse height. Monitor treatment calls for a covertime objective of Birch/Aspen (B-covertime), acceptable regen being moderate/well stocked mix of aspen and deciduous species. Recommending fail/close the current monitor Rx and add a new monitor to be checked in 5-years (start date 10/1/2026). More aspen/conifer might fill in during that time. A few scattered residual white/red pine, hemlock and cedar present but did not appear to be contributing to lack of regen (from shading). Some areas of wetter ground present, including the small retention island.</p>																																																																																				
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107	4134 - Aspen, Spruce/Fir	Poletimber Well	8.4	54	51-80	N/A	<p>The core/center strip of this stand is a seasonal drainage course that moves water into Stand 46. The course was pit/moundy with sensitive soils. The area was saturated and holding water during my visit. The wettest area was south of the Forest Rd, a portion north of the road was wet/holding water too. Some of the swallow depressions likely act as vernal pools. The outskirts of the stand are generally upland yet still had pit/mounds and a decent amount of fir/spruce and QA. Could see what looked like out ruts in a few areas, perhaps from the removal harvest that occurred here in the late 60's. Scattered larger deciduous stems were common (RM, some QA). Average DBH's increase north of road, as does BTA. Scattered tip-ups and some blowdown common. BA swings= 90,70,70,140,70 (88avg).</p>																																																																																				
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Bigtooth Aspen	5	Log/Pole/XLog	12																																																																																								
Northern White Cedar	2	Log/Pole	12																																																																																								
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
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108 4136 - Aspen, Mixed Conifer Poletimber Well 33.2 55 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	10	Log/Pole/XLog	11	
White Spruce	3	Pole/Sapling	6	
Jack Pine	1	Pole	7	
Quaking Aspen	8	Pole	8	
Red Maple	10	Pole/Sap/Log	7	60
Balsam Fir	6	Pole/Sapling	6	
White Pine	8	Pole/Log/XLog	9	
Bigtooth Aspen	54	Pole/Sap/Log	8	55

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	10 - 20 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Red Pine	Low	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	10 - 20 feet	Sapling

The larger portion of this stand, south of the forest rd, has a much different character than the smaller portion north of the road. Stocking in south is patchy with scattered openings, can-closure averaged out at the low-end of 75-100%. Scattered and clumps of RP/WP in south. Average aspen DBH's are medium sized pole, still plenty of sap sized stems too. North of the road soils appear to get better as average DBH's increase across nearly all species and can-closure increases. Ages were within 5yrs of each other in both locations. A 0.5ac inclusion of what appears to be planted R9 red pine is located just north of the road. Decent advanced pine regen is a couple areas. An old road/or fire line goes all the way around the interface with Stands 40, 42, 47 and 46. BA swings= 130,80,60,100,60,70,90 (84avg).

109 42290 - Natural Mixed Pine Sawtimber Well 16.8 69 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	25	Log/Pole/XLog	14	133
Red Pine	38	Log/Pole/XLog	15	69
Red Maple	10	Pole	8	
Northern White Cedar	1	Log/Pole	11	
Bigtooth Aspen	8	Pole/Log/XLog	8	55
White Spruce	3	Log/Pole/XLog	15	66
Black Spruce	4	Pole/Sap/Log	7	
Balsam Fir	6	Pole/Sapling	7	
Quaking Aspen	5	Pole/Log/XLog	8	55

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Sapling
White Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
White Pine	Medium	10 - 20 feet	Sapling
Red Pine	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling

Small yet variable stand of fire origin pine. Various ages too, from 55 to 130 plus years old (in '22). Once you move not far north/south of Forest Rd, you'll quickly get into some impressive, large/tall, of mostly RP, some WP. Many of those stems are super-can, with legacy sizes not uncommon in areas. Cored a platy 21" RP@~133yrs. The area just off either side of the Forest Rd has a broader mix of species/size classes. Seasonal drainage and (likely) vernal pool complex located just south of Forest Rd (see OFS point). Likely dries out but was flooded during '22, with swallow depressions and pit/mounds throughout. Drains into Stand 40. Fir saps increase dramatically in most southern areas. More aspen in west. Variable stocking depending on location. BA swings= 120,70,80,110,40,200,150 (110avg).

110 4319 - Mixed Upland Forest Poletimber Well 12.2 55 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	8	Pole/Log	9	
Jack Pine	2	Log/Pole	10	
Red Maple	10	Pole/Log/XLog	8	
Paper Birch	1	XLog/Log	18	
Bigtooth Aspen	22	Pole/Log/XLog	9	55
Balsam Fir	16	Pole/Sap/Log	6	55
White Spruce	8	Pole/Log/XLog	8	
Red Pine	16	Log/XLog/Pole	15	75
White Pine	12	Log/Pole/XLog	14	
Black Spruce	5	Pole/Sap/Log	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Medium	10 - 20 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	High	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Pine	Low	5 - 10 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Bigtooth Aspen	Low	>20 feet	Sapling

At least 2-aged, probably three if including the few scattered legacy size RP/WP. Dominant age tended to be mid-50's (in '22), the result of previous removal harvest. Then scattered throughout are larger deciduous (RM, BTA)/some pine stems about 75yrs old. Seemed to be more larger/older stems the further south you go, yet still mixing w/smaller poles throughout. Slight seasonal drainage (dry in spring '22) in southwest against Stand 41. Distinct openings present in south, obvious but not large. Scattered super-can and some legacy size RP/WP, some xlog WhtSprc too. BA swings= 80,100,110,60,110,110 (95avg)



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
111	4134 - Aspen, Spruce/Fir	Poletimber Well	7.8	56	81-110	N/A	Moderate quality aspen stand with a component of mixed conifers. There looks like two age classes of aspen in the stand; north of the road is more of an A6, south of the road is an A9. A few areas of lower stocking near the road. Spruce and fir is more common north of the road, white pine more common south of the road. A few of the white pine are very large, including several legacy size trees. A few small areas of blowdown near the north edge. Primarily upland but transitions to lowland along the north edge. Trace of beech and red pine. Average ba/acre from 6 plots = 95 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	3	Log/Pole	11		Paper Birch	Trace		>20 feet	Sapling
Paper Birch	1	Pole	7		Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
Quaking Aspen	14	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling
White Pine	7	Log/XLog/Pole	15		Red Maple	Low		Variable	Sapling
Bigtooth Aspen	51	Pole/Log	9	56	White Pine	Low		Variable	Sapling
White Spruce	7	Pole	8		White Spruce	Trace		Variable	Sapling
Balsam Fir	17	Pole	7		Red Oak	Trace		>20 feet	Sapling
112	4319 - Mixed Upland Forest	Poletimber Well	12.6	55	111-140	N/A		Formally part of Stand 37/113 (all used to be Std37). Stand located in a swallow depression w/lowland influence on either side and is a mix of QA, maple, fir, spruce and pine. Area appeared mostly dry, yet becomes increasing wet with soft soils on east boundary. Interior likely moves water during heavy precip/snow melt. Beaver activity, probably from a couple years ago, observed one prominent area where many aspen/fir stems cut (see OFS Point). Concentrated xlog/some legacy RP in southeast, some xlog/legacy WP too. BA swings= 120, 70, 160 (116avg).	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Bigtooth Aspen	2	Pole/Log/Sap	8	55	Tag Alder	Low	5 - 10 feet		Tall Shrub
White Pine	10	Pole/Log/XLog	9		Red Maple	Low	10 - 20 feet		Sapling
Quaking Aspen	40	Pole/Log/Sap	8	55	Balsam Fir	High	Variable		Sapling
Paper Birch	5	Pole/Log	8		White Pine	Low	10 - 20 feet		Sapling
Red Maple	8	Pole/Sap/Log	8		Black Spruce	Low	10 - 20 feet		Sapling
White Spruce	3	Pole/Log/XLog	8		Black Spruce	Low	< 5 feet		Seeding
Red Pine	8	Log/Pole/XLog	12	68					
Balsam Fir	12	Pole/Sap/Log	7						
Black Spruce	12	Pole/Sap/Log	7						
113	4133 - Aspen, Mixed Pine	Poletimber Well	23.3	55	51-80	N/A	Formally part of Stand 37 (as was Std112). Very similar to Stand 37, patchy stocking in west 1/2 with some small openings present. East 1/2 still patchy but better stocked. Aspen, mostly BTA, was quite variable in size/merch (saps still common) and mediocre quality. Strong component of RP, especially in SW. It spills over from Stand 54, Comp2. Scattered xlog/legacy RP and xlog WP observed. Areas of good advanced WP/RP regen present. BA swings= 110,70,50 (76avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	6	Pole/Log/Sap	8		Black Spruce	Low		< 5 feet	Seeding
White Pine	10	Pole/Log/XLog	9		Red Maple	Low		10 - 20 feet	Sapling
Red Pine	20	Log/Pole/XLog	12	68	White Spruce	Low		10 - 20 feet	Sapling
Balsam Fir	3	Pole/Sap/Log	6		Red Pine	Medium		5 - 10 feet	Sapling
Red Maple	4	Pole/Sapling	7		Black Spruce	Low		10 - 20 feet	Sapling
White Spruce	3	Pole/Sapling	7		Balsam Fir	Medium		Variable	Sapling
Paper Birch	2	Pole/Log	8		Witch Hazel	Low		5 - 10 feet	Tall Shrub
Jack Pine	4	Pole/Log	8		White Pine	Medium		10 - 20 feet	Sapling
Bigtooth Aspen	48	Pole/Log/Sap	8	55	Jack Pine	Low	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
114	4134 - Aspen, Spruce/Fir	Poletimber Well	9.2	58	81-110	N/A	Aspen, maple, fir/spruce mix. This area wasn't cut in the mid-80's (w/Stand 55). Marginal quality mix of species with consistent blowdown (large and small pockets). Southern boundary of stand has a lot of pit/mounds, many of which were holding water and had sensitive soils. Likely dries out but that's what I'm labeling as the 'lowland' in this stand. Some very large xlog/legacy size WhtSprc present/scattered. A few super-can/legacy size WP/RP, trace cedar/hemlock/black cherry too. Old overgrown haul route just west into Stand 55, enters through Stand 57. BA Swings= 70,90,120,120,90,70,180 (74avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	16	Pole/Sap/Log	7	58	Balsam Fir	High		Variable	Sapling
White Pine	2	Pole/Log/XLog	8		Red Maple	High		>20 feet	Sapling
Red Pine	2	Log/XLog/Pole	17		Black Spruce	Low		Variable	Sapling
Quaking Aspen	44	Pole/Log/Sap	8	58	White Spruce	Low		Variable	Sapling
Balsam Poplar	1	Pole	8						
Black Spruce	2	Pole/Sapling	7						
Northern White Cedar	1	Log/Pole	12	94					
Hemlock	1	Log/Pole	12						
Bigtooth Aspen	2	Log/Pole/XLog	12						
White Spruce	6	Log/XLog/Pole	16						
Red Maple	18	Pole/Log/XLog	8						
Paper Birch	5	Pole/Log	8						
115	500 - Water	Nonstocked	2.0		Unspecified	No		Flooded area as a result of beaver activity. Older beaver dam on west boundary. Was holding water when visited in May '22.	
Sub-Canopy Species	Density	Avg. Height	Size	Cattail spp.	Medium	Unspecified	Non-Wood		
116	429 - Mixed Upland Conifers	Sawtimber Well	15.8	68	81-110	N/A	Mixed conifer, likely fire origin, with erratic stocking depending on location and the drainage that runs right down the middle of stand (north/south). Broad range of species and sizes. Overall, enough log sizes to call that dominant, but poles still prevalent throughout. Canopy-closure (on average) at low-end of 75-100%. Large burn scarred stumps common. Quite a few large/legacy sizes WP present, and some older/platy RP. Northern area on mostly dry but transitional soils, very pit/moundy. Drainage is easily discernable on imagery, was holding water at time of visit (May '22), thick with lowland shrubs. BA swings= 110,140,80,20,110 (92avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern White Cedar	2	Pole/Log	8	118	Balsam Fir	Medium		Variable	Sapling
White Pine	40	Log/Pole/XLog	12	68	White Pine	High		10 - 20 feet	Sapling
White Spruce	3	Log/Pole/XLog	11		Nannyberry	Medium		5 - 10 feet	Tall Shrub
Red Pine	10	Log/Pole/XLog	12	68	Tag Alder	Medium		5 - 10 feet	Tall Shrub
Paper Birch	10	Pole/Log	8		Red Maple	Medium		10 - 20 feet	Sapling
Quaking Aspen	2	Pole/Log	8		Black Spruce	Medium		10 - 20 feet	Sapling
Red Maple	10	Log/Pole/XLog	11		White Spruce	Medium		10 - 20 feet	Sapling
Bigtooth Aspen	6	Log/Pole	10		Paper Birch	Medium		>20 feet	Sapling
Balsam Fir	8	Pole/Sap/Log	7						
Jack Pine	3	Pole/Log	8						
Black Spruce	6	Pole/Sap/Log	8						
117	6120 - Lowland Cedar	Poletimber Medium	5.8	88	51-80	N/A		Poorly stocked stand of primarily conifer species. Was very wet/mucky when visited.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
White Spruce	5	Pole	8		Tag Alder	Medium	5 - 10 feet		Tall Shrub
Northern White Cedar	50	Pole/Log	8	88	Tamarack	Low	Variable		Sapling
Balsam Fir	10	Pole/Sapling	7		Black Spruce	Low	5 - 10 feet		Sapling
Red Maple	10	Pole/Sapling	6		Balsam Fir	Medium	Variable		Sapling
Tamarack	5	Pole	6		Red Maple	Low	10 - 20 feet		Sapling
Black Spruce	15	Pole/Sapling	6						
Balsam Poplar	5	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
118	4130 - Aspen	Sapling Well	8.2	4	Immature	N/A	<p>Scheele '18: Treatment completed as part of Aspen Pure-EH (52-107-14-01). JSP '22: Some history first. All SOM land in Section 16 formally belonged to Gaylord Comp 52182 and was previously inventoried by J.Scheele (with help from Roell/T.St.Pierre) in 2011. This stand was set-up sold as the Indian River F.O. sale listed above. In 2020/21, unit boundaries were reviewed/altered and PRC FMU absorbed the Gaylord FMU lands located south of Walker Rd. Now specific to this stand (118), it was formally part of Stand 97. Stand 118 has thus far regenerated more successfully than Stand 97. I never saw Stand 97 prior harvest but imagine this area (now Stand 118) was heavier to aspen. Aspen is regenerating favorably at this time, most stems above browse height, and estimate overall can-closure on low end of 75-100% (visited prior to leaf out). Red maple is not doing well and has been browsed right down to the ground in most cases. Maple listed above in canopy are those stems that have made to, or above browse height. Strong component of ironwood coming on. Did not see paper birch regen, which is a strong component in adjacent Stand 81 (listed as a B6 stand). Monitor treatment calls for a covertime objective of Upland Fir, acceptable regen being moderate/well stocked mix of aspen and deciduous/coniferous species. Recommending accepting the current A-covertime and closing out the monitor Rx.</p>																																											
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119	3303 - Mixed Low Density Trees	Nonstocked	4.1	0	Unspecified	Managed Opening	<p>McDonald '16: Opening that is converting to forested type. JSP '22: Strolled through and this stand could go either way with regard to being forested. I was able to drive my (smaller) personal vehicle through it during inventory and it still seems more 'open' than forested. Stocked with individual and pockets of deciduous/conifer of varying sizes. This trait is quite common to many of the 'non-forested' throughout the area. Stand was previously classified as an A4 covertime. I changed to non-forested in '22.</p>																																											