

Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54173 Entry Year 2022 Acreage: 1,319

County Cheboygan

Management Area: Hammond Bay Lake Plain

Revision Date: 2020-06-10

Stand Examiner: John St. Pierre

Legal Description:

T37N, R01E, Sections 22, 27 & 34

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:

The most prevalent soil types found within compartment 173 include sand's (35%), muck's (27%), loamy sand's (14%), peat's (13%), sandy loam's (9%), histosols and aquents (1.5%) and cobbly loam (0.3%). Water currently accounts for just over one percent (1%) of the surface area. Areas dominated by water are constantly fluctuating within the compartment due to numerous factors (beaver activity, variations in yearly rain/snowfall amounts, hydraulic movement capacity of present vegetation, human activity, etc.).

Topography is generally flat with areas of slight undulation and sloping. Less than four percent (4%) of compartment 173 features slopes six percent (6%) or greater. In certain locations, minute changes in elevation drastically influence soil characteristics (upland vs. lowland).

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

Compartment 173 itself is composed of large 'main' portion and then a 'removed' forty acre (40ac) parcel located southeast of the large portion. The larger 'main' portion of the compartment is bounded by state owned lands on its northern boundary and nearly all of its western boundary. Privately owned lands entirely border the eastern and southern perimeter of the large portion. The smaller forty acre 'removed' parcel is bounded by state land on its east boundary and private on all remaining sides. Of note, Twin Lakes is located adjacent to southern areas of the compartment. Numerous homes all nested on or near the shoreline of Twin Lakes.

Land use activities in and around the compartment include various forms of hunting (deer, turkey, grouse/woodcock, bear, predator hunts, hare, etc). Hiking, snowshoeing and general meandering are also an option. Snowmobile Trail 99 and Black Lake ORV Trail wind through south central portions of the compartment. Both trails area heavily recreated.

Unique Natural Features:

The 'Black Lake Forest Marsh' Ecological Reference Area (ERA) is located within this compartment. In 2006, a 'Michigan Natural Features Inventory' (MNFI) survey concluded that this thirty-three acre (33ac) intermittent wetland was "very high quality" and the "seasonally and annually fluctuating water table creates a diverse ecological zonation including submergent marsh, emergent marsh, northern wet meadow, and grounded bog mat". The bulk of this ERA resides within the northwest portion of section 27. A small portion of the ERA extends into compartment 172 as well.

Immediately northwest of the 'Black Lake Forest Marsh' ERA, located in compartment 172, is the 'Linsey Muskeg' ERA. This scrub bog was most recently inventoried by MNFI staff in August of 2011. Comments from that survey include, "The muskeg is located on a broad poorly drained outwash channel along with bog, intermittent wetland, and northern shrub thicket. Sphagnum hummocks and hollows are prevalent in the muskeg and provide microsite diversity by creating small-scale gradients in soil moisture and soil chemistry. In addition, numerous animal trails occur throughout the muskeg and provide flat, inundated linear features that increase the muskeg's overall structural diversity." In total, the 'Linsey Muskeg' ERA encompasses one hundred eighty-six (186) acres.

Archeological, Historical, and Cultural Features:

One or more occurrences have been documented for this compartment.

Special Management Designations or Considerations:

The ecological reference areas (ERA's) mentioned above have special management considerations. Primarily, the use of 'Riparian Zone Management' (RMZ) guidance as provided in Michigan's 'Best Management Practices' (BMP) manual. The specific intent of the guidance is to maintain intact vegetative buffers around the ERA's to help minimize negative impacts on hydrology that could affect the unique character of these wetland communities.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is part of a multi-compartment complex in Cheboygan county, providing good travel corridors for wildlife. Habitat components of aspen and primarily lowlands provide food and cover for multiple species at a variety of age classes. We are working to maintain a good age rotation of aspen. Some areas are too wet to harvest, which provides habitat qualities of older age class timber. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

Upland portions of the compartment provide better vehicle access than areas dominated by lowland conditions. Access is generally provided by several county-owned and/or state forest roads that are available off of Alpena State Rd. Some of these roads are named, others are not. County-owned options include Alpena State Rd, Lake 16 Rd, Helka Dr, Orchard Beach Rd and Krouse Rd. Snowmobile trail 99, most of which is a state forest road, can be utilized when it doesn't conflict with snowmobile traffic. An un-named forest road is available west of Helka Dr. The remainder of the compartment is limited to 'on foot' travel due to expansive stretches of lowland.

Survey Needs:

Currently there are no survey needs. However, locating survey corners was complicated by the COVID-19 shutdown experienced during the spring of 2020. The compartment examiner couldn't look for corners (after snow-off conditions) in many areas that previously didn't have a record of a corner being present. Survey needs may develop when this compartment is inventoried again in 2030.

Recreational Facilities and Opportunities:

Snowmobile Trail #99 and Black Lake ORV Trail(s) both wind through portions of compartment 173. Both of these trail systems are widely used by recreationists. Snowmobiles, ORVs, dirtbiking, hunting, and general meandering are extremely popular during the appropriate seasons.

Fire Protection:

Fire protection for compartment 173 is provided by Michigan DNR resources from the Onaway, Atlanta and Indian River field offices. Local VFD personel and equipment are vitally important fire response resources that would provide suppression too.

Additional Compartment Information:

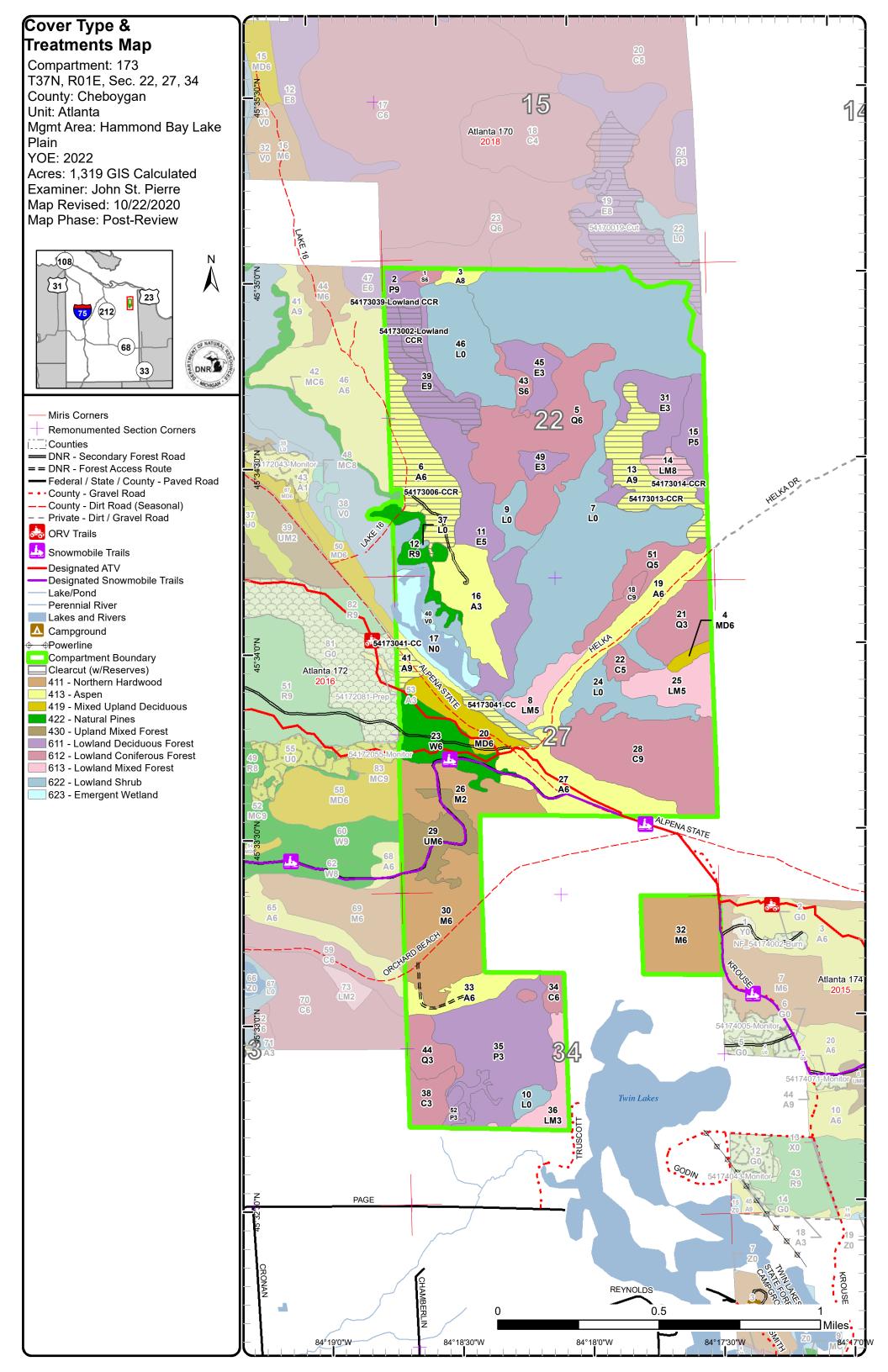
Because of the COVID-19 shutdown experienced in the spring of 2020, data collection couldn't be completed within several forested stands located in compartment 173. These were stands 23, 26, 29, 30, 32 and 33. The data provided for those stands reflects inventory data collected during 2010.

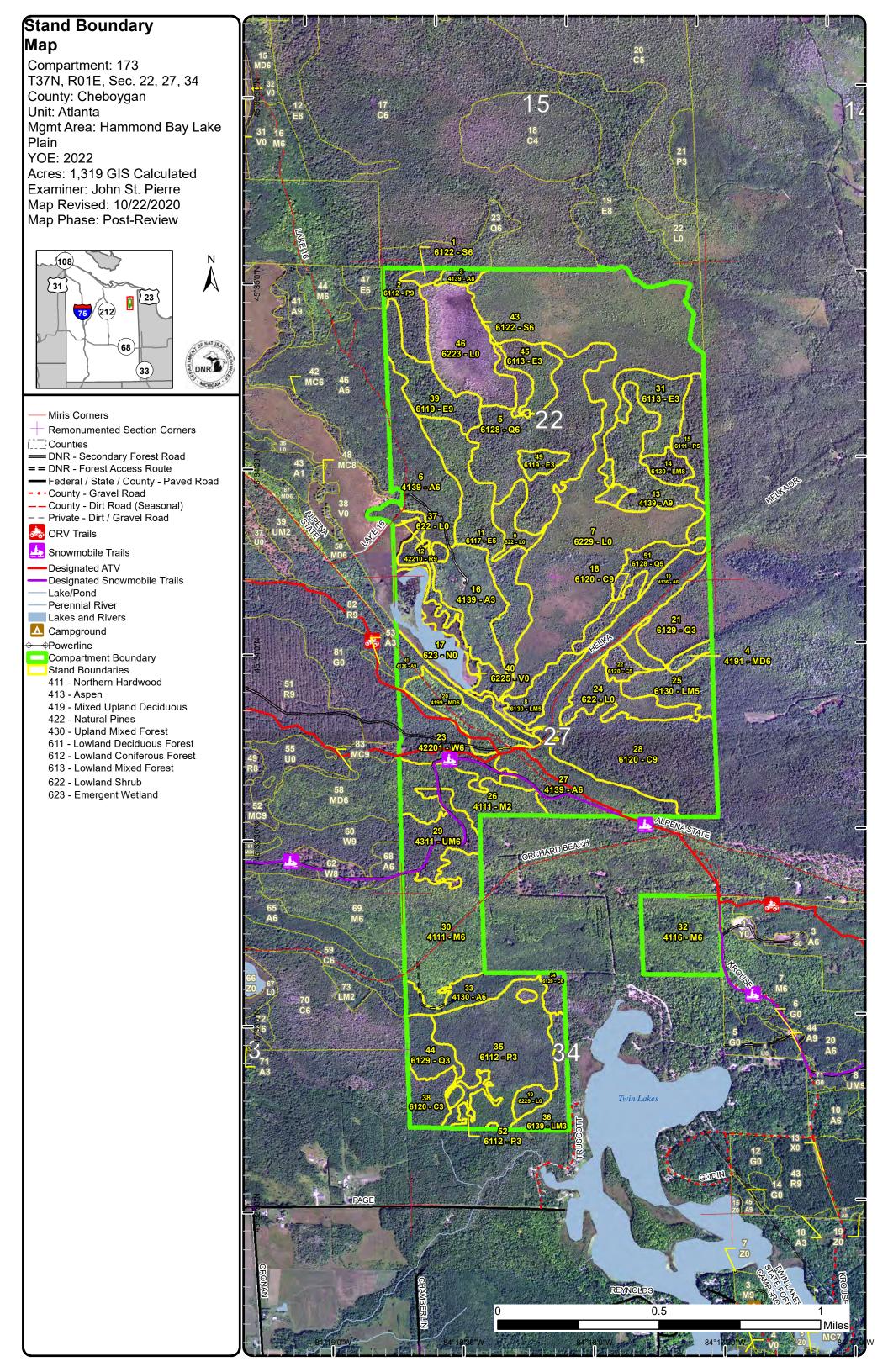
The following reports from the Inventory are attached:

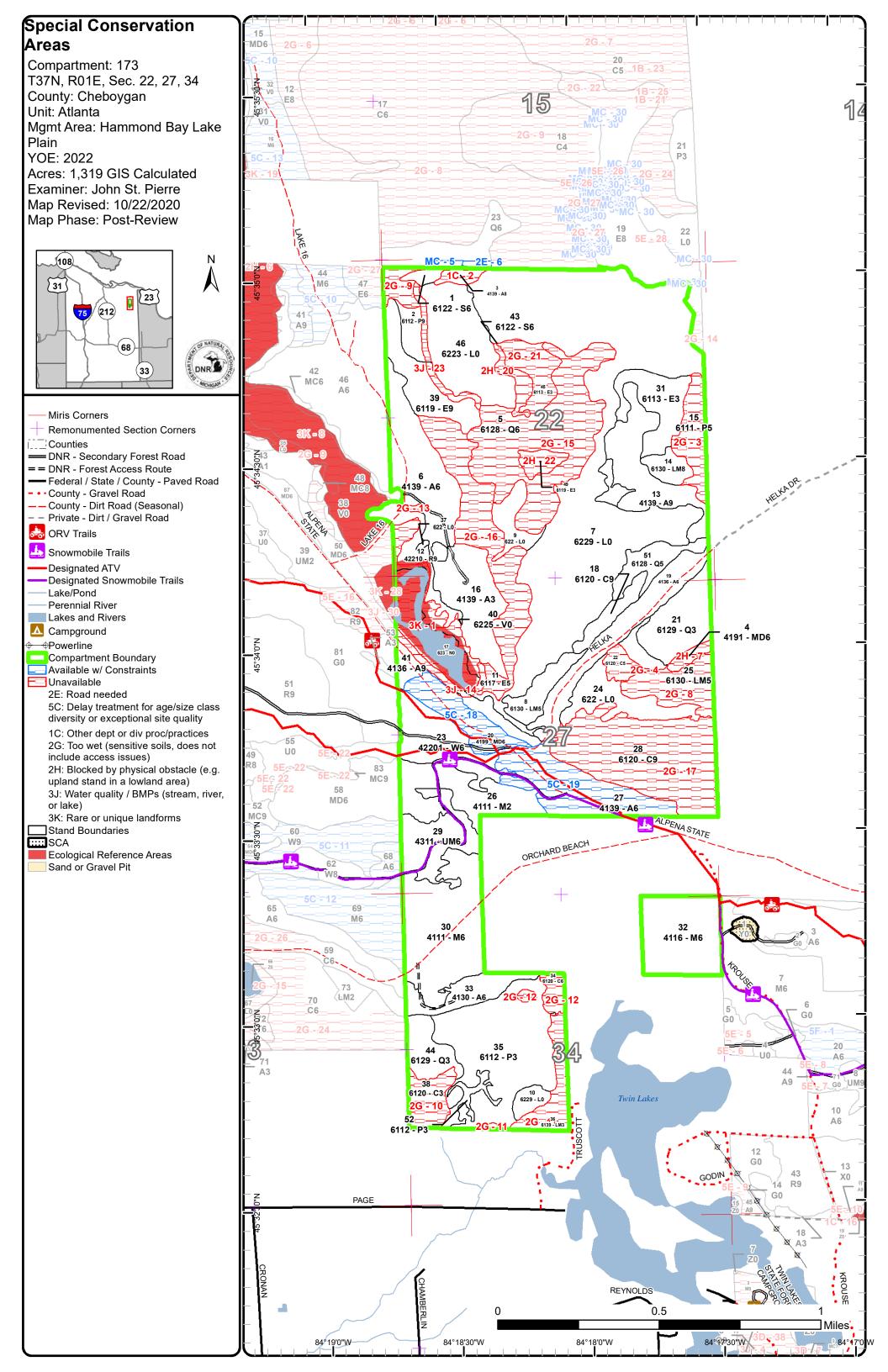
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







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Age Class

| | ₹gr. | | 3 / 2 | \$ \ \$ | P A | 3 / 12 | | 3/8 | \$ / R | R & | * * | 8 /2 | 70, | Ø / & | | S. W. | | 3 Jrest | Log Log |
|-----------------------------|------|---|-------|---------|-----|--------|-----|-----|--------|-----|-----|------|-----|-------|----|-------|---|---------|---------|
| Aspen | 0 | 0 | 33 | 0 | 0 | 89 | 41 | 0 | 4 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 215 |
| 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 | 0 | 0 | 0 | 93 | 0 | 0 | 15 | 0 | 0 | 0 | 108 |
| Lowland Aspen/Balsam Poplar | 0 | 0 | 0 | 0 | 0 | 75 | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 107 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 129 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 46 | 53 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 16 | 20 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| Lowland Shrub | 313 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 313 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Marsh | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 93 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 131 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| White Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Total | 350 | 0 | 33 | 0 | 46 | 282 | 176 | 98 | 37 | 117 | 0 | 169 | 0 | 0 | 15 | 0 | 0 | 0 | 1322 |



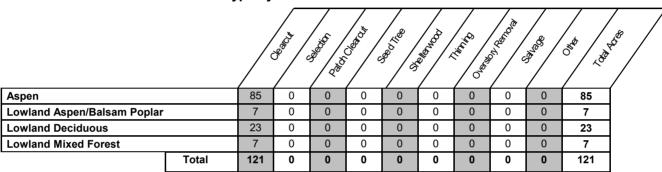
Report 2 – Treatment Summary

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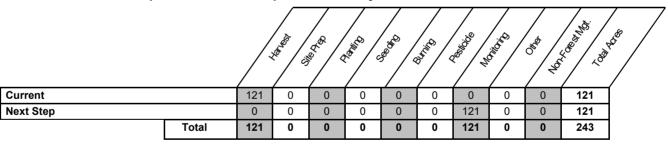
Compartment 173 Year of Entry: 2022 **Total Compartment Acres: 1,319 Acres of Harvest**

> Commercial Harvest - 121 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



n

d

Compartment: 173 Year of Entry: 2022



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

Approved Treatments:

54173002-6.5 6112 - Lowland Sawtimber 85 51-80 Harvest Clearcut with 6112 - Lowland Even-Aged No **Lowland CCR** Aspen Well Retention Aspen

Prescription Lowland Clearcut w/Reten.

Specs:

- Operationally difficult lowland stand. During prep, pay close attention to changing soil conditions and exclude sensitive/likely inoperable areas. Capture some of these exclusions as retention.
- Maintain a minimum 100ft RMZ no-cut strip against Stand 46. Treatment boundary reflects the reduction.
- See Stand 39's Rx regarding stick-nests. Use woodland raptor guidelines to protect/exclude these nests (and any others).
- Leave conifer and yellow birch
- Use drum log and brush pile specs
- Protect snowmobile trail 99 in specs
- Frozen winter harvest only. May attempt during very dry months with written permission.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Any stocking level mixture of aspen, red maple, birch, fir and spruce.

Regen:

Other See Stand 6 comment regarding hauling on Lake 16 Rd.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

54173006-414 4139 - Aspen, Poletimber 47 81-110 Harvest Clearcut with 4139 - Aspen, Even-Aged Nο Mixed Deciduous Well Retention Mixed. CCR Deciduous

Prescription Clearcut w/Retention.

Specs:

- While running redline, create an irregular boundary in west along the compartment line. Establish a fair amount of 'edge'.
- Capture some of the few scattered oak within retention
- Leave white pine and any hemlock/yellow birch. Leave red pine 18" and greater.
- Use drumming log and brush pile specs
- Protect snowmobile trail 99 in specs

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

<u>Acceptable</u> Any stocking level of aspen with components of hard/soft maple, birch, cherry, oak, fir and pine.

Regen:

Other Lake 16 Rd (county owned) will likely need improvements/crushed stone fill before any operations begin. Especially the segment that

Comment: crosses the bog. Consider adding 'frozen winter/very dry summer' hauling restriction(s) to specs.

Site Condition

Proposed Start Date: 10/1 /2021

Deciduous

| a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|-------------|-------------------|-------|----------------------------------|------------------|--------------|-------------|-------------------|-------------------------|-------------------------|------------------|----------------|
| 13 | 54173013- CCR | 32.8 | 4139 - Aspen, Mixed Deciduous | Sawtimbe Well | r 85 | 81-110 | Harvest | Clearcut with Retention | 4139 - Aspen, Mixed | Even-Aged | No |

Prescription Clearcut w/Retention.

Specs:

- Where operable/merchantable, expand boundary out into areas of Stand 31 - Some retention will likely need to be established around inoperable/wet areas
- Leave white/red pine. Leave spruce 18" and greater. Protect legacy trees in specs (legacy WP observed).
- Protect spruce regen in specs
- Include drum log and brush pile specs
- Protect snowmobile trail 99 in specs
- Composite mats likely needed. Possibly 500+- feet of mats beginning just north of Helka Dr. that will provide access into the southern upland area(s) of this stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any stocking level of aspen and soft maple with components of birch, fir, spruce and pine.

Regen:

- PVT fence on east is 'true'. Ensure harvest operations do not damage this fence. Other

- Harvest acreage may increase or decrease by more than 25% due to operability issues/opportunities within/adjacent to this stand. This Comment:

comment negates the need to create a possible variance.

Site Condition

Proposed Start Date: 10/1 /2021

14 54173014-7.2 6130 - Fir, Aspen, Sawtimber 85 81-110 Harvest Clearcut with 6112 - Lowland No Even-Aged CCR Maple Medium Retention Aspen

Prescription Clearcut w/Retention.

Specs:

- Use retention to exclude inoperable areas. A wet corridor with tip-ups/blowdown is present in the center/southwest area of the stand. Additional areas likely.
- Leave cedar and any pine/hemlock. Leave spruce 18" and greater.
- Consider using 4" spec. To protect some non-merchantable stems that could then serve as a 'hydraulic pump'.
- Frozen winter harvest only. May attempt during very dry months with written permission.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any stocking level of aspen with components of fir, spruce, soft maple and cedar.

Regen:

Other See Stand 13's Rx comment regarding composite mats.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

- Protect hemlock and oak regen in specs

- Use brush pile and drum log specs

- Protect snowmobile trail 99 and Black Lake ORV trail in specs

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any stocking level of aspen with components of hard/soft maple, birch, oak, pine and hemlock.

Regen:

Other - No formal retention needed, small acreage/maximize regen.

- The southern polygon of this treatment may have a small area (on east boundary) that's 'Too wet' to harvest. Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Total Treatment 121.4 Acreage Proposed:

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| Total | Acres | Acres Avail | Acres | De | omina | nt Site | e Con | ditions | S | | |
|-------|-----------|----------------|---------------|-----------------------------|-------|---------|-------|---------|----|----|----|
| Acres | Available | With Condition | Not Available | | 2E | 5C | 1C | 2G | 2H | 3J | 3K |
| 214 | 165 | 41 | 8 | Aspen | 0 | 41 | 4 | 1 | | 4 | |
| 12 | 0 | 0 | 12 | Bog | | | | | | | 1: |
| 108 | 8 | 0 | 99 | Cedar | | | | 99 | | | |
| 108 | 82 | 0 | 26 | Lowland Aspen/Balsam Poplar | | | | 23 | | 3 | |
| 128 | 53 | 0 | 76 | Lowland Conifers | | | | 76 | | | |
| 124 | 48 | 0 | 76 | Lowland Deciduous | | | | 66 | 6 | 4 | |
| 55 | 19 | 0 | 36 | Lowland Mixed Forest | | | | 36 | | | |
| 313 | 312 | 0 | 0 | Lowland Shrub | | | | | | 0 | |
| 9 | 3 | 0 | 6 | Lowland Spruce/Fir | | | | | 6 | | |
| 25 | 0 | 0 | 25 | Marsh | | | | | | | 2 |
| 24 | 0 | 20 | 4 | Mixed Upland Deciduous | | 20 | | | 3 | 0 | |
| 131 | 131 | 0 | 0 | Northern Hardwood | | | | | | | |
| 15 | 15 | 0 | 0 | Red Pine | | | | | | | |
| 26 | 26 | 0 | 0 | Upland Mixed Forest | | | | | | | |
| 29 | 29 | 0 | 0 | White Pine | | | | | | | |
| 1,319 | 892 | 61 | 367 | Total Forested Acres | 0 | 61 | 4 | 300 | 15 | 11 | 3 |
| | 68% | 5% | 28% | 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 | 3K: Rare or unique landforms | 37 | Unspecified | Unspecified | Unspecified | Unspecified |

Comments:

Black Lake Forest Marsh ecological reference area (ERA). The majority of this site condition captures an intermittent wetland that was most recently surveyed by MNFI staff on 6/26/06. The ERA extends briefly into Stand 38, ATLC172. Turn on 'reference polygon' layer to see exact ERA boundary, or consult the conservation area viewer (ArcOnline). Recommended management guidance for ERA's with water features: "Follow BMP Riparian Zone Management (RMZ) guidelines related to lake, stream, pond or open water wetlands, which require a minimum zone width of 100 feet. Proposed activity including timber management within RMZs adjacent to ERAs should be evaluated on a case-by-case basis and are/may be acceptable where there is minimal risk of soil disturbance and sedimentation, and minimal risk of negatively impacting ERA quality."

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| 2 | Unavailable | 1C: Other dept or div proc/practices | 4 | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | Unspecified | Unspecified | Unspecified |
|---|-----------------------------------|--|---------|--|-----------------|-------------|-------------|
| | Comments: | | | | | | |
| 3 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 16 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Wet, mucky and se | ensitive soils. | | | | | |
| 4 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 6 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Very wet when visit | ed with limited merchantibility. | | | | | |
| 5 | Available | Minor Change in Acreage | 1 | 5F: Evaluated for Forest Health Considerations | Unspecified | Unspecified | Unspecified |
| | Comments: small stand size, ro | ad needed, re-evaluate next Y0 | DE inve | entory. | | | |
| 6 | Available | 2E: Road needed | 1 | 5F: Evaluated for Forest Health Considerations | Unspecified | Unspecified | Unspecified |
| | Comments: old aspen, should b | pe treated. small stand size, nee | eds a r | oad and surrounded on 3 sid | des by too wet. | | |
| 7 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 4 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Ridge of upland sur | rrounded by lowland. | | | | | |
| | | | | | | | |

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| 8 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 20 | Unspecified | Unspecified | Unspecified | Unspecified |
|----|--|---|-------------|------------------------------|-------------------------------|--------------------------------|----------------------|
| | Comments: Though only saw fro | om the edge, this stand appear | red to be v | very wet. Imagery suppor | ts this too. | | |
| 9 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Northern areas app treatments. | eared to be 'Too wet' with muc | ky/sensitiv | ve soils. Southern portior | n might be operable, presc | ribed in '20 and will try to h | arvest with adjacent |
| 10 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 13 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Though not currentl | y merchantable, the stand was | very wet | with difficult accessibility | | | |
| 11 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 16 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Though most areas | of this stand are not currently | merchanta | able, the stand was very | wet with difficult accessibil | ity. | |
| 12 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 6 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Very wet, mossy wit | th mucky soils (except for the t | orief uplan | d knoll). | | | |
| | | | | | | | |

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| 13 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
|----|---|--|--------------------------------|--|--|--------------------------------|----------------------|
| | Comments: Small area of Stand | d 6 that is likely 'Too wet' to har | vest. Hea | avy to lowland shrubs and | had standing water when | observed. | |
| 14 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Management (RMZ including timber ma | management guidance for the p Z) guidelines related to lake, str anagement within RMZs adjace nce and sedimentation, and mi | eam, por ent to ER <i>l</i> | nd or open water wetlands As should be evaluated on | , which require a minimun a case-by-case basis an | n zone width of 100 feet. Pi | roposed activity |
| 15 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 76 | 2E: Road needed | Unspecified | Unspecified | Unspecified |
| | | ited by surrounding lowland cor completely off the table if equip 'align'. | | | | | |
| 16 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 51 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Appeared 'Too wet equipment used wo | ' with limited merchantibility at tould need to 'align'. | his time. | Future management not o | completely off the table. W | eather conditions and type | of harvesting |
| 17 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 74 | Unspecified | Unspecified | Unspecified | Unspecified |
| | | s appeared 'Too wet' to suppor ability to regenerate (a reasona | | | | n't completely off the table i | f equipment, weather |

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| 18 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 20 | Unspecified | Unspecified | Unspecified | Unspecified |
|----|---|--|---------|---|--|----------------------------|----------------------|
| | Comments: Allow the slow grov | wing hard maple to become mor | e mercl | nantable. Consider harves | sting in '32 YOE. | | |
| 19 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 41 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Allow the slow grov | ving aspen to become more me | rchanta | ble. Consider harvesting o | during '32 YOE. | | |
| 20 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 6 | 2E: Road needed | 2G: Too wet (sensitive soils, does not include access issues) | Unspecified | Unspecified |
| | Comments: Dominant restriction | n is the amount of low ground n | eeded t | o cross to access this sta | nd. Small acreage and was c | uite wet in areas as well. | |
| 21 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 15 | 2E: Road needed | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | Unspecified | Unspecified |
| | Comments: Stand is still quite y harvesting operation | young/immature and access is cons. | omplica | ted by surrounding lowlar | nd stands. Also, conditions/so | oils appeared 'Too wet' to | support conventional |
| 22 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 6 | 2G: Too wet (sensitive soils, does not include access issues) | 2E: Road needed | Unspecified | Unspecified |
| | Comments: Stand is still quite y harvesting operation | oung/immature and access is cons. | omplica | ted by surrounding lowlar | nd stands. Also, conditions/so | oils appeared 'Too wet' to | support conventional |

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23 Unavailable 3J: Water quality / BMPs 6 2G: Too wet (sensitive Unspecified Unspecified Unspecified Soils, does not include

access issues)

Comments:

One-hundred foot (100ft) riparian management zone (RMZ) protecting the open water portion of Stand 46. Harvesting and/or operations should not occur within this RMZ during adjacent timber sales.

10/22/2020 1:39:50 PM - Page 6 of 6 SWARTZN3

Mgt. Unit

Compartment: #Type! Year of Entry:

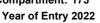


Report 5 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* 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 |
|----------|--------------|-------------|----------------|-------|
| | | | | |
| Comments | | | | |
| | | | | |

Atlanta Mgt. Unit Compartment: 173





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.

| Conservation Type Area | - | SCA = Special Conservation Area |
|------------------------------|--|---|
| ERA Ecologica Reference A | identified as Element Occurrences (EOs context of their natural community class (Excellent) or B (Good) and a Global (G threatened (2), or rare (3) serve as an in the State. The system is comprised of in managed for restoration and maintenance | high quality examples of natural communities that have been) by the Michigan Natural Features Inventory (MNFI) within the fication system. Element Occurrences with viability ranks of A or State (S) element (rarity) ranking of endangered (1), itial base of ERAs. They may be located upon any ownership in dividual or associations of natural community types that are see of natural ecological processes and values. The public may RAs using the DNR Conservation Area Recommendation Form. |

8

Pole

Serviceberry (Juneberry)

Hazelnut (Beaked)

Report 7 - Stands

Compartment: 173 Year of Entry: 2022



| Stand | Level 4 C | over Type | s | ize De | ensity | Acres | Stand Age B | A Range | Managed S | Site | General Comments |
|-------|------------------|------------|---------------|--------|---------|----------|---------------|---------|--------------|------------|--|
| 1 | 6122 - B | lack Spruc | e Po | letimb | er Well | 2.9 | 71 | 81-110 | N/A | | Spruce/Fir dominant with components of RM and QA. Scattered QA/PB, |
| (| Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | some NWC on north boundary. Very wet/mucky in Stand 2 to the west (would have to go through Std2 to access this stand). This stand is wet, |
| C | Quaking Aspen | 5 | Log/Pole | 12 | | Ва | ılsam Fir | Medium | >20 feet | Sapling | but does graduate into drier areas as you move east. |
| | Balsam Fir | 25 | Pole/Sap/Log | 7 | | Re | ed Maple | Medium | >20 feet | Sapling | |
| | Black Spruce | 55 | Pole/Sap/Log | 7 | 71 | Blad | ck Spruce | Medium | >20 feet | Sapling | |
| Nort | hern White Cedar | 3 | Pole/Log | 9 | | | | ' | | - | |
| | Red Maple | 8 | Pole/Sapling | 6 | | | | | | | |
| | Paper Birch | 4 | Pole/Log | 9 | | | | | | | |
| 2 | 6112 - Lo | wland Aspe | en Sa | wtimb | er Well | 16.3 | 85 | 51-80 | N/A | | Lower stocked large/supercanopy QA (some BAM) overtop a heavily stocked sub-can of 20ft+ red maple saps (some poles). Strong |
| (| Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | component of PB in sub-can too. Fir/RM in canopy and a scattering of a |
| | Red Maple | 10 | Pole/Sap/Log | 9 | | Re | ed Maple | High | >20 feet | Sapling | few other species. Ground appeared to be very humucky, wet with |
| | Paper Birch | 6 | Pole/Sap/Log | 8 | | Ta | ag Alder | Medium | 5 - 10 feet | Tall Shrub | mit/mounds (old tip-ups) and scattered/recent tip-ups. QA is on its way |
| Е | Balsam Poplar | 3 | Log | 14 | | Pa | per Birch | High | >20 feet | Sapling | out, being replaced by soft maple, fir and paper birch. Trace elm (pole). |
| | Balsam Fir | 12 | Pole/Sap/Log | 9 | | Blad | ck Spruce | Low | >20 feet | Sapling | |
| | Black Spruce | 2 | Pole/Sapling | 7 | | Ва | ılsam Fir | Medium | 10 - 20 feet | Sapling | |
| | Yellow Birch | 2 | Pole/Sapling | 8 | | BI | ack Ash | Medium | < 5 feet | Seeding | |
| C | Quaking Aspen | 65 | Log/XLog | 15 | 85 | | Beech | Low | < 5 feet | Seeding | |
| | | | | | | Re | ed Maple | Medium | < 5 feet | Seeding | |
| 3 | 4139 - Aspen, | Mixed Dec | iduous Saw | rtimbe | Mediun | n 3.8 | 73 | 51-80 | N/A | | The open area is being reclaimed by tree species. Outside of this area is a lower stocking of super-canopy stems (generally aspen) overtop P/L |
| (| Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | and L/P (mix of species) who are then overtop saps (mainly BF). Some |
| | Sugar Maple | 5 | Log/Pole | 12 | | Re | ed Maple | Medium | Variable | Sapling | areas of blowdown, generally upland until tapering off into adjacent |
| Е | Bigtooth Aspen | 4 | XLog | 18 | | | Beech | Low | 10 - 20 feet | Sapling | lowland stands. BA erratic, averaged 50 sqft. |
| | Balsam Fir | 15 | Pole/Sapling | 7 | | R | ed Oak | Trace | >20 feet | Sapling | |
| | Paper Birch | 3 | Pole/Log | 8 | | Ва | ılsam Fir | High | Variable | Sapling | |
| | Basswood | 2 | Log | 15 | | Blad | ck Spruce | Low | >20 feet | Sapling | |
| | Red Oak | 1 | Pole | 9 | | Qual | king Aspen | Low | >20 feet | Sapling | |
| | Red Maple | 32 | Log/Pole | 11 | | Northern | n White Cedar | Trace | 5 - 10 feet | Sapling | |
| G | Quaking Aspen | 37 | Log/XLog/Pole | 14 | 73 | R | ed Pine | Trace | 5 - 10 feet | Sapling | |

Apple (spp.)

Sapling

Tall Shrub

10 - 20 feet

5 - 10 feet

Low

Low

Report 7 - Stands



| Stand | d Level 4 Co | ver Type | Siz | ze De | nsity | Acres Stand Age | BA Range | Managed S | ite | General Comments |
|-------|---|-----------------------------|---|---|--------|---|--------------------------|--|--------------------------------------|---|
| 4 | 4191 - Mixed Upla Cor | nd Decidu nifer | uous with Pol | etimb | er Wel | I 3.5 70 | 51-80 | N/A | | Narrow upland finger surrounded by lowland. Sizes variable from P/L to L/P. Burn scar stumps quite abundant. Observed some larger stems |
| | Canopy Species | % Cover | r Size Class | DBH | l Age | Sub-Canopy Specie | es Density | Avg. Height | Size | along transitional perimeter locations (QA, BTA, RM). |
| | Red Oak | 1 | Log/XLog | 16 | | Red Maple | Medium | Variable | Sapling | |
| | Sugar Maple | 1 | Log/Pole | 11 | | Balsam Fir | High | >20 feet | Sapling | |
| | Black Spruce | 5 | Pole/Log | 8 | | Paper Birch | Low | >20 feet | Sapling | |
| | White Pine | 4 | Log/XLog/Pole | 15 | | White Pine | Low | 10 - 20 feet | Sapling | |
| | Quaking Aspen | 4 | Log/Pole | 11 | | Beech | Low | 5 - 10 feet | Sapling | |
| | Bigtooth Aspen | 4 | Log/XLog/Pole | 16 | | Ironwood | Low | 5 - 10 feet | Sapling | |
| | Balsam Fir | 23 | Pole/Sap/Log | 7 | | Black Spruce | Low | >20 feet | Sapling | |
| | Paper Birch | 28 | Pole/Log | 9 | | Serviceberry (Juneberr | ry) Low | 5 - 10 feet | Sapling | |
| 5 | 6128 - Lowland C Decid | Coniferous duous | s, Mixed Pol | etimb | er Wel | I 75.6 109 | 111-140 | N/A | | Something for everyone. Saw majority of stand; but not the far N/NE and SW. North looks heavier to NWC, NE likely E/P-type, southeast likely |
| | Canopy Species | % Cover | r Size Class | DBH | l Age | Sub-Canopy Specie | es Density | Avg. Height | Size | BlkSprc. Stand toggles between 2-3 different covertypes. Some areas of nearly pure NWC. Then portions mixed w/NWC, BF, BS and RM. Other |
| | Red Maple | 10 | Pole/Log/XLog | 9 | | Balsam Fir | Medium | Variable | Sapling | locations w/strong components of QA (relic to pole), PB and RM. Poles |
| | Balsam Poplar | 2 | Log | 14 | | Tag Alder | Medium | 5 - 10 feet | Tall Shrub | tended to be most common yet nearly all species available in L-XL. Som very large NWC in far south. NWC dominated areas even-aged, most other locations at least 2-aged. Decent PB component, sap-Xlog. Likely |
| | Balsam Fir | 20 | Pole/Sap/Log | 7 | 80 | Red Maple | Medium | >20 feet | Sapling | |
| | Black Spruce | 15 | Pole/Log | 8 | | Balsam Poplar | Trace | >20 feet | Sapling | few hemlock/YB present. Trace elm/blkcherry (pole). |
| No | orthern White Cedar | 28 | Pole/Log/XLog | 9 | 109 | Black Ash | Low | >20 feet | Sapling | • • • • |
| | Paper Birch | 10 | Pole/Log/XLog | 8 | | Paper Birch | Medium | >20 feet | Sapling | |
| | Quaking Aspen | 15 | Log/Pole/XLog | 13 | | Labrador Tea | Low | < 5 feet | Tall Shrub | |
| | | | | | | Red Maple | Medium | < 5 feet | Seeding | |
| | | | | | | • | | | | |
| 6 | 4139 - Aspen, N | Mixed Dec | iduous Pol | etimb | er Wel | | 81-110 | N/A | | Harvested '72-'74 under contracts 61-72 & 110-73, along with portions of |
| 6 | <u> </u> | | | | | 1 42.2 47 | | | | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut |
| 6 | Canopy Species | % Cover | r Size Class Sapling/Pole/Log | DBH | er Wel | | | N/A Avg. Height >20 feet | Size Sapling | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut acreage for both was 65ac. Stand 46 (ATLC172) cut similar timeframe. |
| 6 | Canopy Species Red Maple | % Cover | r Size Class | DBH | | Sub-Canopy Specie | es Density | Avg. Height | Size Sapling | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut acreage for both was 65ac. Stand 46 (ATLC172) cut similar timeframe. Aspen stems fairly reliably pole sized, more so than most other similar aged upland aspen stands in this comp (logs common, saps still |
| 6 | Canopy Species | % Cover | Size Class Sapling/Pole/Log Pole/Log/Sap | DB H | I Age | l 42.2 47 Sub-Canopy Specie | es Density High | Avg. Height >20 feet | Size Sapling Sapling | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut acreage for both was 65ac. Stand 46 (ATLC172) cut similar timeframe. Aspen stems fairly reliably pole sized, more so than most other similar aged upland aspen stands in this comp (logs common, saps still present). Other deciduous mixed in throughout. Scattered pine (likely |
| 6 | Canopy Species Red Maple Bigtooth Aspen | % Cover 15 45 | r Size Class Sapling/Pole/Log | DBH 4 8 | I Age | Sub-Canopy Specie Red Maple Sugar Maple | Bes Density High Low | Avg. Height >20 feet >20 feet | Size Sapling Sapling Sapling | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut acreage for both was 65ac. Stand 46 (ATLC172) cut similar timeframe. Aspen stems fairly reliably pole sized, more so than most other similar aged upland aspen stands in this comp (logs common, saps still present). Other deciduous mixed in throughout. Scattered pine (likely residuals from harvest) as you enter the southern portion of stand. Fir |
| 6 | Canopy Species Red Maple Bigtooth Aspen Red Pine | % Cover 15 45 4 | Sapling/Pole/Log Pole/Log/Sap Log/XLog | DBH 4 8 14 | I Age | Sub-Canopy Specie Red Maple Sugar Maple Beech | Pes Density High Low Low | Avg. Height >20 feet >20 feet 5 - 10 feet | Size Sapling Sapling | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut acreage for both was 65ac. Stand 46 (ATLC172) cut similar timeframe. Aspen stems fairly reliably pole sized, more so than most other similar aged upland aspen stands in this comp (logs common, saps still present). Other deciduous mixed in throughout. Scattered pine (likely residuals from harvest) as you enter the southern portion of stand. Fir prevalence increases in south too. Average deciduous diameters decrease somewhat as you move south into heavier conifer. Log sized |
| 6 | Canopy Species Red Maple Bigtooth Aspen Red Pine Red Oak | % Cover 15 45 4 2 | r Size Class Sapling/Pole/Log Pole/Log/Sap Log/XLog Pole/Log | DBH 4 8 14 9 | I Age | Sub-Canopy Specie Red Maple Sugar Maple Beech Striped Maple | High Low Low Low | Avg. Height >20 feet >20 feet 5 - 10 feet Variable | Size Sapling Sapling Sapling Sapling | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut acreage for both was 65ac. Stand 46 (ATLC172) cut similar timeframe. Aspen stems fairly reliably pole sized, more so than most other similar aged upland aspen stands in this comp (logs common, saps still present). Other deciduous mixed in throughout. Scattered pine (likely residuals from harvest) as you enter the southern portion of stand. Fir prevalence increases in south too. Average deciduous diameters decrease somewhat as you move south into heavier conifer. Log sized aspen present right on the boundary w/Stand 16. Some E/SE boundary |
| 6 | Canopy Species Red Maple Bigtooth Aspen Red Pine Red Oak Black Cherry | % Cover 15 45 4 2 3 | r Size Class Sapling/Pole/Log Pole/Log/Sap Log/XLog Pole/Log Pole/Sapling | DBH 4 8 14 9 5 | I Age | Sub-Canopy Specie Red Maple Sugar Maple Beech Striped Maple | High Low Low Low | Avg. Height >20 feet >20 feet 5 - 10 feet Variable | Size Sapling Sapling Sapling Sapling | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut acreage for both was 65ac. Stand 46 (ATLC172) cut similar timeframe. Aspen stems fairly reliably pole sized, more so than most other similar aged upland aspen stands in this comp (logs common, saps still present). Other deciduous mixed in throughout. Scattered pine (likely residuals from harvest) as you enter the southern portion of stand. Fir prevalence increases in south too. Average deciduous diameters decrease somewhat as you move south into heavier conifer. Log sized aspen present right on the boundary w/Stand 16. Some E/SE boundary locations might have soft/sensitive soils. Wet area w/lowland shrub just |
| 6 | Canopy Species Red Maple Bigtooth Aspen Red Pine Red Oak Black Cherry Quaking Aspen | % Cover 15 45 4 2 3 7 | r Size Class Sapling/Pole/Log Pole/Log/Sap Log/XLog Pole/Log Pole/Log Pole/Sapling Pole/Sap/Log | DBH 4 8 14 9 5 7 | I Age | Sub-Canopy Specie Red Maple Sugar Maple Beech Striped Maple | High Low Low Low | Avg. Height >20 feet >20 feet 5 - 10 feet Variable | Size Sapling Sapling Sapling Sapling | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut acreage for both was 65ac. Stand 46 (ATLC172) cut similar timeframe. Aspen stems fairly reliably pole sized, more so than most other similar aged upland aspen stands in this comp (logs common, saps still present). Other deciduous mixed in throughout. Scattered pine (likely residuals from harvest) as you enter the southern portion of stand. Fir prevalence increases in south too. Average deciduous diameters decrease somewhat as you move south into heavier conifer. Log sized aspen present right on the boundary w/Stand 16. Some E/SE boundary |
| 6 | Canopy Species Red Maple Bigtooth Aspen Red Pine Red Oak Black Cherry Quaking Aspen White Pine | % Cover 15 45 4 2 3 7 4 | Pole/Log Pole/Log Pole/Log Pole/Log Pole/Log Pole/Log Pole/Sapling Pole/Sap/Log Log/Pole/XLog | DBH 4 8 14 9 5 7 12 | I Age | Sub-Canopy Specie Red Maple Sugar Maple Beech Striped Maple | High Low Low Low | Avg. Height >20 feet >20 feet 5 - 10 feet Variable | Size Sapling Sapling Sapling Sapling | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut acreage for both was 65ac. Stand 46 (ATLC172) cut similar timeframe. Aspen stems fairly reliably pole sized, more so than most other similar aged upland aspen stands in this comp (logs common, saps still present). Other deciduous mixed in throughout. Scattered pine (likely residuals from harvest) as you enter the southern portion of stand. Fir prevalence increases in south too. Average deciduous diameters decrease somewhat as you move south into heavier conifer. Log sized aspen present right on the boundary w/Stand 16. Some E/SE boundary locations might have soft/sensitive soils. Wet area w/lowland shrub just |
| 6 | Canopy Species Red Maple Bigtooth Aspen Red Pine Red Oak Black Cherry Quaking Aspen White Pine Balsam Fir | % Cover 15 45 4 4 2 3 7 4 8 | Size Class Sapling/Pole/Log Pole/Log/Sap Log/XLog Pole/Log Pole/Sapling Pole/Sap/Log Log/Pole/XLog Sapling/Pole | DBH 4 8 14 9 5 7 12 4 | I Age | Sub-Canopy Specie Red Maple Sugar Maple Beech Striped Maple | High Low Low Low | Avg. Height >20 feet >20 feet 5 - 10 feet Variable | Size Sapling Sapling Sapling Sapling | Stand 11 (I believe). "Cut all merch aspen, PB, RM". Estimated total cut acreage for both was 65ac. Stand 46 (ATLC172) cut similar timeframe. Aspen stems fairly reliably pole sized, more so than most other similar aged upland aspen stands in this comp (logs common, saps still present). Other deciduous mixed in throughout. Scattered pine (likely residuals from harvest) as you enter the southern portion of stand. Fir prevalence increases in south too. Average deciduous diameters decrease somewhat as you move south into heavier conifer. Log sized aspen present right on the boundary w/Stand 16. Some E/SE boundary locations might have soft/sensitive soils. Wet area w/lowland shrub just |

Report 7 - Stands



| Stand | Level 4 C | over Type | S | ize De | nsity | Acres Stand Age | e BA Range | Managed S | Site | General Comments |
|-------|----------------------|------------|---------------|--------|--------|-----------------|-------------|--------------|------------|--|
| 7 | 6229 - Mixed | lowland s | hrub î | Nonsto | ocked | 227.7 | Unspecified | No | | Large, vast area that I was able to view from several different edges but did not have a chance to see 'true' interior locations. From the east boundary of Std.46, was able to see a mix of lowland shrubs w/an E2/3 component and scattered conifer. From Std.17/19 (ATLC170) saw some upland&lowland shrubs&trees. Saw additional edges from Std.5/8/9/13/18/31/50/51, again a mix of lowland shrubs as well as areas heavier to deciduous and conifer tree species. Different imagery shows differents tendencies. Could very easily split this stand up into numerous stands and forested/non-forest covertypes. Strongly believe this area was harvested during 'the era' and has yet to truly regenerate in most areas. Primarily because it cannot effectively manage the resulting high water table and after losing its hydrualic control capacity. A theory anyhow. |
| 8 | 6130 - Fir, <i>i</i> | Aspen, Ma | ple Pole | | Medium | n 11.8 46 | 1-50 | N/A | | Believe most areas to of been harvested in '74 under contract 106-73/10, along with all/portions of Stands 19/51. "Cut all merch aspen, PB, RM, |
| | Canopy Species | % Cove | Size Class | DBH | Age | Sub-Canopy Spec | ies Density | Avg. Height | Size | BF and spruce". Estimated total cut acreage was 60ac. Broadly similar to |
| | Red Maple | 28 | Pole/Sap/Log | 7 | | Red Maple | Full | >20 feet | Sapling | Stand 51 to the NE. Inconsistantly/lower stocked P/L canopy w/high to |
| | Red Pine | 2 | Log/XLog | 16 | | Tag Alder | High | 5 - 10 feet | Tall Shrub | full sub-can of red maple with fir and lowland shrub. Capopy stocking a bit more consistent closer to Stand 19 boundary (starts to become |
| | White Pine | 3 | Log/XLog/Pole | 15 | | Balsam Fir | High | 10 - 20 feet | Sapling | upland). Three acre upland inclusion of WP, RP, some large BTA/RM in |
| | Bigtooth Aspen | 3 | Log/Pole | 14 | | Quaking Aspen | Low | >20 feet | Sapling | extreme south. Xlog WP/RP present there, as are a few legacy WP. |
| | Quaking Aspen | 12 | Pole/Log | 9 | | Paper Birch | Low | >20 feet | Sapling | Majority of stand was quite wet/mucky, mit/mounds with standing water. |
| | Paper Birch | 2 | Log/Pole | 10 | | Wild Raisin | Medium | 5 - 10 feet | Tall Shrub | Could call this stand sapling dominant. Trace log NWC observed. |
| | Black Spruce | 5 | Pole | 7 | 80 | Michigan Holly | Medium | 5 - 10 feet | Tall Shrub | |
| | Balsam Fir | 45 | Pole/Sap/Log | 8 | 46 | | | | | |
| 9 | 622 - Low | /land Shru | 1 d | Nonsto | ocked | 10.3 | Unspecified | No | | Primarily 10-20ft tag alder, with some MI Holly and Wild Raisin. A decent component of mainly RM (S/P), then PB (S/P), scattered BF (S/P), NWC (P) and saw Larch on south perimeter. Didn't see the north half. Imagery shows it's likely heavier to some lowland conifer types (likely spruce). |
| 10 | 6229 - Mixed | lowland s | hrub † | Nonsto | ocked | 5.1 0 | Unspecified | No | | May of been cut with adjacent stands under Contact 63-75A (17-75A)? Saw stand from edge of southern boundary. Lowland shrub galor with conifer and deciduous saps (some poles) mixing in. Tag alder, Michigan Holly, Black Ash, RM, Fir, spruce, NWC, etc. Most shrubs running 10-20ft tall. Scattering of black spruce, BF, RM, QA that were >20ft. Very dense and wet. |



General Comments Stand Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site 6117 - Lowland Deciduous, Mixed Poletimber Medium 52.5 48 51-80 N/A Northern areas very likely harvested late '72, under contract 61-72, along 11 Coniferous with Stand 6. "Cut all merch aspen. PB. RM". Estimated total cut acreage for both was 65ac. A Frustrating stand... Broad variation of % Cover Size Class **DBH Age** Avg. Height Size **Canopy Species Sub-Canopy Species** Density sizes/composition depending on location, at least 2-aged, Sapling RM Red Maple Pole/Sap/Log 7 48 Red Maple Full >20 feet Sapling 46 covers the entire stand and is the primary canopy holder in north, some central areas and majority of far south. Many of these saps just Tamarack 2 Log/Pole 11 Tag Alder Medium 10 - 20 feet Tall Shrul converting into pole size(s). Poles/logs (and xlog) of nearly all species Yellow Birch 2 Pole/Sap/Log 6 Wild Raisin Medium 5 - 10 feet Tall Shruk listed above are scattered throughout. Pockets of reliable pole/log are Hemlock 1 9 5 - 10 feet Tall Shrub Pole/Loa Michigan Holly Low present (some NWC dominated, others spruce/fir). Stocking of poles/logs 92 are not reliable, why I chose 50-75% closure. Could very well call the Black Spruce 8 Pole/Loa 8 Hazelnut (Beaked) Low 5 - 10 feet Tall Shrul stand sap dominant and/or split up into three+ different stands. Much of White Pine 2 17 10 - 20 feet Sapling Log/XLog Hemlock Trace the stand is pit/mound, has new/old tip-ups, was wet/mucky with lowland Red Pine 1 XLog 19 Serviceberry (Juneberry) Low 5 - 10 feet Sapling shrub interfacing on east boundary. ~Some upland interface on a few Balsam Fir 10 Pole/Sapling 6 Balsam Fir Medium Variable western boundary locations. Sapling Quaking Aspen 12 Log/Pole/XLog 12 Paper Birch Medium >20 feet Sapling 8 Paper Birch 10 Pole/Sap/Log Yellow Birch Low >20 feet Sapling 6 9 Black Ash >20 feet Northern White Cedar Pole/Loa Medium Sapling 42210 - Natural Red Pine Sawtimber Well 14.6 67 12 111-140 N/A North half holds most of the (natural) red pine along with a mixing of WP/BTA and a few other minor species (trace log RO observed). The % Cover Size Class **Canopy Species DBH Age Sub-Canopy Species** Avg. Height Size Density small 'blob' east of Stand 37 (L0) had a deciduous removal in the past, Red Maple Pole/Sapling 7 Red Maple Medium Variable Sapling high sap/pole BTA/RM in sub-can there. Slender southern area holds mostly white pine with some RP mixing in. Very much a natural pine Bigtooth Aspen 8 Log/Pole 12 Beech Low 5 - 10 feet Sapling stand. Variable diameters, heights, and stocking, BA's ran 60-210sqft. White Pine 28 Log/Pole/XLog Red Pine 10 - 20 feet 14 Low Sapling 127BA average. Some legacy WP present. Very 'bog like' sub-canopy in Red Pine 60 Log/Pole/XLog 14 67 White Pine Medium Variable Sapling spots, other areas nearly devoid of sub-can, then areas that are quite dense. Quaking Aspen 2 Log/Pole 11 Red Oak Low 10 - 20 feet Sapling 10 - 20 feet Black Spruce Low Sapling Bigtooth Aspen Low >20 feet Sapling 5 - 10 feet Tall Shrub Michigan Holly Medium Wild Raisin 5 - 10 feet Tall Shrub Medium 4139 - Aspen, Mixed Deciduous Sawtimber Well 32.8 85 13 81-110 N/A Somewhat of an upland (w/low) version of Stand 14. RM. QA and BTA

Canopy Species % Cover Size Class **DBH Age Sub-Canopy Species** Density Ava. Heiaht Size 5 - 10 feet Bigtooth Aspen 15 Log/XLog 14 Tag Alder Low Tall Shrub Tall Shrub Black Spruce Pole/Sap/Log 6 Hawthorn (spp.) Trace 5 - 10 feet 26 White Pine 1 XLoa Serviceberry (Juneberry) Low 5 - 10 feet Sapling Quaking Aspen 25 Log/XLog/Pole 13 85 Michigan Holly Medium 5 - 10 feet Tall Shrub White Spruce 2 Loa/Pole 12 White Pine >20 feet Sapling Trace Paper Birch 11 Pole/Log 9 Medium Variable Beech Sapling 9 8 Sapling Balsam Fir Pole/Sap/Log Red Maple High >20 feet Red Maple 32 Log/Pole/XLog 11 85 Paper Birch Low >20 feet Sapling Black Spruce Medium 10 - 20 feet Sapling Variable Balsam Fir Medium Sapling Hazelnut (Beaked) 5 - 10 feet Tall Shrub Low

Somewhat of an upland (w/low) version of Stand 14. RM, QA and BTA occupy most of the canopy w/strong components of PB and some scattered/clumps of spruce/fir. Canopy composition only 1-2% away from being 'Mixed-Deciduous'. Some monster BTA/QA and a few RM, canclosure on lower end of 75-100%. Aspen getting tired, some expired, tipups too. I split out some of the dense RM sap areas, these now part of Stand 31. High/full RM saps, BF saps high is areas. Observed two legacy WP and a relic/xlog RP. Like Stand 31, it's hard to clearly define covertype change from this stand and where Stand 31 (northern poly) begins. It's gradual/slowly blends together. Extreme southern 'tail' of stand is an inclusion of LM bordering on non-forested in spots. Included in an attempt to improve operational access.

Atlanta Mgt. Unit



| ınd | Level 4 Co | over Type | Si | ze De | ensity | Acres Stand Ac | ge BA Range | Managed S | Site | General Comments |
|---|--|--------------------------------|--|------------------------------|------------------------|--|--|---|---|--|
| 4 | 6130 - Fir, A | Aspen, Ma | ple Saw | timbe | r Mediu | ım 7.2 85 | 81-110 | N/A | | A variably stocked QA main canopy (L/XL) with a strong BF componen Most QA is tired w/large crowns. Full canopy closure as a whole but |
| Car | nopy Species | % Cover | Size Class | | H Age | Sub-Canopy Spec | cies Density | Avg. Height | Size | erratic stocking of QA logs brings closure rate down to high side of 50- |
| Qua | king Aspen | 40 | Log/Pole/XLog | 14 | 85 | Red Maple | Medium | Variable | Sapling | 75%. QA is generally overtop larger pole BF (some log) and spruce (m |
| Norther | n White Cedar | 3 | Log/Pole | 12 | | Balsam Fir | Medium | Variable | Sapling | in south, WhtSprc is tall/larger). More RM on west boundary (some larger) to sule of bloudays and increased promiseness of bloudays |
| Wh | ite Spruce | 3 | Log/Pole/XLog | 12 | | Paper Birch | Low | >20 feet | Sapling | log). Lowland shrubs common and increased prominence of blowdowr center and SW areas (a corridor of blowdown). A few upland/drier spot |
| Pa | aper Birch | 3 | Pole/Log | 9 | | Beech | Low | 5 - 10 feet | Sapling | here/there. |
| Bla | ck Spruce | 8 | Pole/Log | 9 | | Quaking Aspen | n Low | 10 - 20 feet | Sapling | |
| Re | ed Maple | 8 | Pole/Log | 8 | | Serviceberry (Juneb | perry) Low | 5 - 10 feet | Tall Shrub | |
| Bals | sam Poplar | 2 | Pole/Log | 9 | | Tag Alder | Medium | 5 - 10 feet | Tall Shrub | |
| Ва | alsam Fir | 33 | Pole/Log | 8 | | Hazelnut (Beake | d) Medium | < 5 feet | Tall Shrub | |
| 5 | 6111 - Lowland | d Balsam F | Poplar Pole | timbe | r Mediı | um 16.0 55 | 51-80 | N/A | | Saw portions of the north end. Erratically stocked P/L and L/P stand o |
| Car | nopy Species | % Cover | Size Class | DBH | H Age | Sub-Canopy Spe | cies Density | Avg. Height | Size | mostly QA/BAM with components of RM, PB and likely BF/Sprc in the south. WET with blowdown. Lowland shrub primarily dominate sub-ca |
| Qua | king Aspen | 35 | Pole/Log/XLog | 8 | | Tag Alder | High | Variable | Tall Shrub | full stocking of shrubs in blowdown areas. Large/super-can QA's could |
| Bals | sam Poplar | 50 | Pole/Log/Sap | 7 | 55 | Michigan Holly | High | 5 - 10 feet | Tall Shrub | observed. Most were very 'flat-topped', looked to other good raptor ne |
| Pa | aper Birch | 5 | Pole/Log | 8 | | Red Maple | Low | >20 feet | Sapling | locations. Cored a ~7" BAM, core was solid but couldn't read the rings |
| Re | ed Maple | 5 | Pole/Log | 8 | | Hazelnut (Beake | d) Medium | 5 - 10 feet | Tall Shrub | |
| Ва | alsam Fir | 5 | Pole/Sapling | 7 | | Balsam Fir | Low | < 5 feet | Seeding | |
| | | | | | | Red Osier Dogwo | ood High | < 5 feet | Tall Shrub | |
| | | | | | | Balsam Poplar | Medium | 10 - 20 feet | Caulina | |
| | | | | | | Baildaill i opiai | Modium | 10 - 20 leet | Sapling | |
| 6 | 4139 - Aspen, I | Mixed Deci | iduous S | aplin | g Well | 32.8 13 | 1-50 | N/A | Sapling | Cut winter '07 (Lake 16 Aspen). Specs were to cut all merch/leave |
| | 4139 - Aspen, I | | iduous S | | g Well H Age | ' | 1-50 | I. | Size | hemlock/oak, but some merch WP, RP and generally non-merch BF |
| Can | | | | | | 32.8 13 | 1-50 cies Density | N/A | 1 0 | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop |
| Can Re | nopy Species | % Cover | Size Class | DBI | | 32.8 13 Sub-Canopy Spe | 1-50 cies Density | N/A Avg. Height | Size | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canopy sap/seedling layer of conifer is present and holding its own against |
| Car Re Bigto | nopy Species ed Maple | % Cover | Size Class Sapling | DB I | H Age | 32.8 13 Sub-Canopy Sper Red Osier Dogwo | 1-50 cies Density ood Low | N/A Avg. Height 5 - 10 feet | Size Tall Shrub Sapling | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop sap/seedling layer of conifer is present and holding its own against deciduous stems. Appears the scattered conifer residuals are helping |
| Car Re Bigto | nopy Species ed Maple ooth Aspen | % Cover 15 38 | Size Class Sapling Sapling | DBI 2 | H Age | 32.8 13 Sub-Canopy Spering Red Osier Dogwood White Pine | 1-50 cies Density ood Low Medium | N/A Avg. Height 5 - 10 feet Variable | Size Tall Shrub | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop |
| Car Re Bigto W | nopy Species ed Maple ooth Aspen 'hite Pine | % Cover 15 38 5 | Size Class Sapling Sapling Log/Pole/Sap | 2 3 10 | H Age | 32.8 13 Sub-Canopy Sperical Red Osier Dogwood White Pine Red Pine | 1-50 cies Density ood Low Medium Low | N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet | Size Tall Shrub Sapling Sapling Sapling | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop sap/seedling layer of conifer is present and holding its own against deciduous stems. Appears the scattered conifer residuals are helping provide this sap/seed layer. This ground tends to do a good job growing the statement of the second s |
| Car Re Bigto W R | nopy Species ed Maple ooth Aspen hite Pine Red Pine | % Cover 15 38 5 3 | Size Class Sapling Sapling Log/Pole/Sap Pole/Log/Sap | 2 3 10 8 | H Age | 32.8 13 Sub-Canopy Specified Osier Dogwood White Pine Red Pine Beech | 1-50 cies Density ood Low Medium Low Low | N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet | Size Tall Shrub Sapling Sapling | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop sap/seedling layer of conifer is present and holding its own against deciduous stems. Appears the scattered conifer residuals are helping provide this sap/seed layer. This ground tends to do a good job growipine/conifer. Majority of east boundary along Stand 11 is soft/wet. |
| Car Re Bigto W R | nopy Species ed Maple ooth Aspen //hite Pine Red Pine Hemlock | % Cover 15 38 5 3 2 | Size Class Sapling Sapling Log/Pole/Sap Pole/Log/Sap Log/Pole | 2 3 10 8 14 | H Age | 32.8 13 Sub-Canopy Specific Red Osier Dogwood White Pine Red Pine Beech Balsam Fir | 1-50 cies Density ood Low Medium Low Low Medium Medium | N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet 10 - 20 feet | Size Tall Shrub Sapling Sapling Sapling Sapling Sapling | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop sap/seedling layer of conifer is present and holding its own against deciduous stems. Appears the scattered conifer residuals are helping provide this sap/seed layer. This ground tends to do a good job growi pine/conifer. Majority of east boundary along Stand 11 is soft/wet. |
| Car Re Bigto W R H | nopy Species ed Maple ooth Aspen Thite Pine Red Pine Hemlock alsam Fir | % Cover 15 38 5 3 2 6 | Size Class Sapling Sapling Log/Pole/Sap Pole/Log/Sap Log/Pole Sapling/Pole | DBH 2 3 10 8 14 2 | H Age | 32.8 13 Sub-Canopy Sperical Red Osier Dogwood White Pine Red Pine Beech Balsam Fir Tag Alder | 1-50 cies Density ood Low Medium Low Low Medium Low Medium Low | N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet 10 - 20 feet >20 feet | Size Tall Shrub Sapling Sapling Sapling Sapling Sapling Tall Shrub | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop sap/seedling layer of conifer is present and holding its own against deciduous stems. Appears the scattered conifer residuals are helping provide this sap/seed layer. This ground tends to do a good job growi pine/conifer. Majority of east boundary along Stand 11 is soft/wet. |
| Car Re Bigto W R H Ba | nopy Species ed Maple ooth Aspen (hite Pine Red Pine Hemlock alsam Fir | % Cover 15 38 5 3 2 6 5 5 | Size Class Sapling Sapling Log/Pole/Sap Pole/Log/Sap Log/Pole Sapling/Pole Sapling Sapling | 2 3 10 8 14 2 | H Age | 32.8 13 Sub-Canopy Special Red Osier Dogwood White Pine Red Pine Beech Balsam Fir Tag Alder Wild Raisin | 1-50 cies Density ood Low Medium Low Low Medium Low Medium Low Medium Medium | N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet 10 - 20 feet >20 feet 5 - 10 feet | Size Tall Shrub Sapling Sapling Sapling Sapling Tall Shrub Tall Shrub | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop sap/seedling layer of conifer is present and holding its own against deciduous stems. Appears the scattered conifer residuals are helping provide this sap/seed layer. This ground tends to do a good job growi pine/conifer. Majority of east boundary along Stand 11 is soft/wet. |
| Car Re Bigte W R H Ba Pa | nopy Species ed Maple ooth Aspen thite Pine Red Pine Hemlock alsam Fir aper Birch Red Oak | % Cover 15 38 5 3 2 6 5 3 | Size Class Sapling Sapling Log/Pole/Sap Pole/Log/Sap Log/Pole Sapling/Pole Sapling | DBH 2 3 10 8 14 2 2 2 | H Age | 32.8 13 Sub-Canopy Spee Red Osier Dogwo White Pine Red Pine Beech Balsam Fir Tag Alder Wild Raisin Labrador Tea | 1-50 cies Density ood Low Medium Low Low Medium Low Medium Medium Medium Medium Medium | N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet 10 - 20 feet >20 feet 5 - 10 feet < 5 feet | Size Tall Shrub Sapling Sapling Sapling Sapling Sapling Tall Shrub Tall Shrub | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop sap/seedling layer of conifer is present and holding its own against deciduous stems. Appears the scattered conifer residuals are helping provide this sap/seed layer. This ground tends to do a good job growi pine/conifer. Majority of east boundary along Stand 11 is soft/wet. |
| Car Re Bigte W R H Ba Pa | nopy Species ed Maple ooth Aspen /hite Pine Red Pine Hemlock alsam Fir aper Birch Red Oak ack Cherry | % Cover 15 38 5 3 2 6 5 3 3 3 | Size Class Sapling Sapling Log/Pole/Sap Pole/Log/Sap Log/Pole Sapling/Pole Sapling Sapling Sapling | DBH 2 3 10 8 14 2 2 2 3 | H Age | 32.8 13 Sub-Canopy Special Red Osier Dogwood White Pine Red Pine Beech Balsam Fir Tag Alder Wild Raisin Labrador Tea Jack Pine | 1-50 cies Density ood Low Medium Low Low Medium Low Medium Medium Medium Trace | N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet 10 - 20 feet >20 feet > 10 feet < 5 feet < 5 feet | Size Tall Shrub Sapling Sapling Sapling Sapling Tall Shrub Tall Shrub Seeding Seeding | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop sap/seedling layer of conifer is present and holding its own against deciduous stems. Appears the scattered conifer residuals are helping provide this sap/seed layer. This ground tends to do a good job growipine/conifer. Majority of east boundary along Stand 11 is soft/wet. |
| Car Re Bigte W R H Ba Pa | nopy Species ed Maple ooth Aspen /hite Pine Red Pine Hemlock alsam Fir aper Birch Red Oak ack Cherry | % Cover 15 38 5 3 2 6 5 3 3 3 | Size Class Sapling Sapling Log/Pole/Sap Pole/Log/Sap Log/Pole Sapling/Pole Sapling Sapling Sapling | DBH 2 3 10 8 14 2 2 2 3 | H Age | 32.8 13 Sub-Canopy Specific Red Osier Dogwood White Pine Red Pine Beech Balsam Fir Tag Alder Wild Raisin Labrador Tea Jack Pine Red Pine | 1-50 cies Density ood Low Medium Low Low Medium Low Medium Medium Trace Medium | N/A Avg. Height 5 - 10 feet Variable 5 - 10 feet 5 - 10 feet 10 - 20 feet >20 feet > 10 feet < 5 feet < 5 feet < 5 feet | Size Tall Shrub Sapling Sapling Sapling Sapling Tall Shrub Tall Shrub Seeding | hemlock/oak, but some merch WP, RP and generally non-merch BF were also left. So there's a scattered second age class. BTA, QA and dominant w/some conifer competing for canopy positions. Sub-canop sap/seedling layer of conifer is present and holding its own against deciduous stems. Appears the scattered conifer residuals are helping provide this sap/seed layer. This ground tends to do a good job growi pine/conifer. Majority of east boundary along Stand 11 is soft/wet. |

| | Stand | Level 4 Co | ver Type | • | Size De | ensity | Acres | Stand Age B | A Range | Managed S | ite | General Comments |
|---|-------|----------------|----------|--------------|---------|---------|--------|--------------|---------|-------------|---------|--|
| | 18 | 6120 - Low | land Ced | lar | Sawtimb | er Well | 8.4 | 131 | 201+ | N/A | | Variable NWC stems sizes, yet enough sawlog sizes t |
| | | Canopy Species | % Cove | r Size Class | DBH | I Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | Some large and xlog cedar not uncommon. Scattering and some soft maple. Sub-can fir is full in areas, then |
| | | Paper Birch | 2 | Log/Pole | 11 | | Blad | ck Spruce | Low | < 5 feet | Seeding | Saw a few spruce seedlings poking out of the snow. |
| 1 | | | | | | | | | | | | 1 |

51-80

Low

N/A

5 - 10 feet

Sapling

s to call log dominant. na of other conifer en low in other areas.

| Black Spruce | 5 | Pole/Log | Ö | | Baisam Fir | High | 5 - 10 feet | Sapling |
|----------------------|----|---------------|----|-----|----------------|--------|--------------|------------|
| Northern White Cedar | 80 | Log/Pole/XLog | 11 | 131 | Tag Alder | Medium | 5 - 10 feet | Tall Shrub |
| Red Maple | 6 | Pole/Log | 9 | | White Spruce | Trace | 10 - 20 feet | Sapling |
| White Spruce | 2 | Log | 15 | | Black Ash | Medium | 10 - 20 feet | Sapling |
| Tamarack | 5 | Log/Pole | 11 | | Michigan Holly | Medium | 5 - 10 feet | Tall Shrub |
| | | | | | | | | - |

31.7

46

Beech

Poletimber Well

6

Pole/Sapling

Size Class **Canopy Species** % Cover **DBH Age Sub-Canopy Species** Density Avg. Height Size Red Maple Sapling/Pole >20 feet Sapling 10 4 Red Maple High 46 7 Balsam Fir Sapling Bigtooth Aspen 35 Pole/Sap/Log High Variable 15 6 Tall Shrub Balsam Fir Pole/Sapling Serviceberry (Juneberry) Low 5 - 10 feet White Pine 5 Log/Pole/XLog 16 Balsam Fir Medium < 5 feet Seeding Northern White Cedar 2 Tall Shruk Log/Pole 11 Hazelnut (Beaked) 5 - 10 feet Low 2 6 Red Oak >20 feet Sapling Sugar Maple Pole/Sapling Trace 3 6 White Pine 10 - 20 feet Black Spruce Pole/Sapling Low Sapling Red Pine 2 Log/XLog/Pole 16 Sugar Maple Low >20 feet Sapling 22 7 Paper Birch >20 feet Quaking Aspen Pole/Sap/Log Medium Sapling

Believe to be harvested in '74 under contract 106-73/10, along with portions of Stands 8/51. "Cut all merch aspen, PB, RM, BF and spruce". Estimated total cut acreage was 60ac. Helka Rd dissects the center of this narrow ridge like stand. The stand slopes down off both sides of Helka into adjacent lowlands. Overall aspen diameters still small given age. Some scattered logs and pockets heavier to larger pole sizes. 6-7" DBH for aspen was common. Heavy BF/RM canopy components. Though many of these stems mingling with canopy, most are non-merch to limited merch (especially RM). Scattered L/P/XL and Legacy WP present. Log/xlog RP too.

| 20 4199 - Other Mixe | d Upland | Deciduous F | Poletimb | er Wel | 1 20.0 | 80 | 51-80 | N/A | |
|-----------------------------|----------|---------------|----------|--------|---------|-------------|---------|--------------|---------|
| Canopy Species | % Cove | r Size Class | DBH | l Age | Sub-Can | opy Species | Density | Avg. Height | Size |
| Sugar Maple | 40 | Pole/Sap/Log | 7 | 80 | Suga | r Maple | High | >20 feet | Sapling |
| Red Maple | 6 | Pole/Log | 8 | | Iror | nwood | High | Variable | Sapling |
| Bigtooth Aspen | 28 | Log/Pole | 11 | | Red | Maple | Medium | >20 feet | Sapling |
| White Pine | 12 | Log/Pole/XLog | g 14 | 79 | В | eech | High | Variable | Sapling |
| Hemlock | 2 | Log/XLog/Pol | e 14 | | Re | d Oak | Low | >20 feet | Sapling |
| Paper Birch | 3 | Pole/Log | 9 | | Bals | am Fir | Low | 5 - 10 feet | Sapling |
| Beech | 3 | Pole | 8 | | Whi | te Pine | Low | 5 - 10 feet | Sapling |
| Red Pine | 2 | Log/XLog | 16 | | He | mlock | Medium | 10 - 20 feet | Sapling |
| Red Oak | 3 | Pole/Log/XLog | g 8 | | He | mlock | Medium | < 5 feet | Seeding |
| Basswood | 1 | Log/Pole | 11 | | Pape | er Birch | Low | >20 feet | Sapling |

Marginal/poorer quality hard maple/NHD species, strong but scattered BTA component, then WP to a lesser extent. NHD species growing very slowly atop the sandy soils. Most HM is stump-sprout regen (P/S) with some single stems present. Scattered around are some older/larger (L/XL), gnarly, wolfy and very oddly formed HM, Older/larger RO, RP, WP and hemlock present (legacies of all observed). BTA is generally small/medium log with pockets of poles and of decent quality. Hemlock regen is fairly consistent, both saps (10-20ft+-) and seedlings. Non-desire regen consistent too. HM somewhat difficult to capture in BA swings due to its smaller DBH, was still more prevalent than BTA. Canopy pine is doing very well as are the few oak. Remaining deciduous species take longer to develop atop the upland soils present within this compartment.

Paper Birch

4136 - Aspen, Mixed Conifer

4

19



| Stand | d Level 4 Co | over Type | Si | ize De | nsity | Acres | Stand Age B | A Range | Managed \$ | Site | General Comments |
|----------------|--|---|--|--|---------------------|--|--|---|---|--|--|
| 21 | 6129 - Mixed Co Fo | oniferous Lo orest | owland S | Sapling | Well | 25.6 | 48 | 1-50 | N/A | | Made it 50+ yards in along the southern boundary. Variable stem sizes but most hanging out between S/P or P/S. White pine was the reliably |
| | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | larger sized species having more P/L scattered about. Imagery shows some likely lower stocked areas. Essentially a bog being reclaimed by |
| | Jack Pine | 3 | Sapling/Pole | 4 | | Mich | nigan Holly | High | 5 - 10 feet | Tall Shrub | lowland conifer. Pretty interesting to put eyes on. Wet/snow covered |
| | Red Pine | 3 | Sapling/Pole | 4 | | Wi | ld Raisin | High | 5 - 10 feet | Tall Shrub | |
| | Red Maple | 3 | Sapling/Pole | 3 | | Ta | ag Alder | Medium | 5 - 10 feet | Tall Shrub | |
| Nor | orthern White Cedar | 3 | Sapling/Pole | 4 | | Le | atherleaf | High | < 5 feet | Tall Shrub | |
| | Balsam Fir | 5 | Sapling/Pole | 3 | | | | | | | |
| | White Pine | 15 | Pole/Sap/Log | 8 | | | | | | | |
| | Tamarack | 28 | Sapling/Pole | 3 | | | | | | | |
| 22 | 6120 - Lov | wland Ceda | ır Pole | timber | Mediur | n 5.6 | 104 | 81-110 | N/A | | Lower stocked in north, stocking increases as you move south (BA's |
| | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | north to south= 80,110,160). Crown dieback, some mortality across nearly all cedar and white pine. Very wet within the stand, likely causing |
| | Paper Birch | 3 | Pole | 7 | | Ta | ag Alder | Medium | 10 - 20 feet | Tall Shrub | the above issue(s). Increased sunlight allowing for a fairly dense lowland |
| | Red Maple | 6 | Pole/Log | 9 | | Wi | ld Raisin | Medium | 5 - 10 feet | Tall Shrub | shrub layer and black ash production. Nearly all WP were xlog. Due to |
| | Hemlock | 2 | XLog/Log | 18 | | Mich | nigan Holly | High | 5 - 10 feet | Tall Shrub | above symptoms, calling can-closure the high end of 50-75%. Very wet. |
| | | _ | XLog/Log | 20 | | Re | ed Maple | Medium | >20 feet | Sapling | |
| | White Pine | 6 | ,1209,209 | | | | | | | | |
| Nor | White Pine orthern White Cedar | 83 | Pole/Log/Sap | 8 | 104 | Ва | alsam Fir | Medium | Variable | Sapling | |
| Nor | | | | 8 | 104 | | | Medium High | Variable >20 feet | Sapling Sapling | |
| 23 | orthern White Cedar 42201 - Natural \ Deci | 83 White Pine, | Pole/Log/Sap Mixed Po | letimb | er Well | 28.9 | alsam Fir ack Ash 65 | High 111-140 | >20 feet N/A | Sapling | JSP '20 comment: Stand wasn't visited during '20 inventory (Covid lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component |
| | 42201 - Natural \ Canopy Species | White Pine, iduous | Pole/Log/Sap Mixed Po Size Class | letimbe | | 28.9 Sub-Ca | alsam Fir lack Ash 65 Inopy Species | High 111-140 Density | >20 feet N/A Avg. Height | Sapling | lockdown). Above data is Barber's inventory from 07/01/10. Ì did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely |
| 23 | 42201 - Natural Noeci Canopy Species Red Maple | White Pine, iduous Cover | Pole/Log/Sap Mixed Po Size Class Pole | DBH | er Well | 28.9 Sub-Ca | alsam Fir ack Ash 65 | High 111-140 | >20 feet N/A | Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was |
| 23 | 42201 - Natural \ Canopy Species | White Pine, iduous **Cover** 2 38 | Pole/Log/Sap Mixed Po Size Class Pole Pole/Sapling | DBH 5 5 | er Well | 28.9 Sub-Ca | alsam Fir lack Ash 65 Inopy Species | High 111-140 Density | >20 feet N/A Avg. Height | Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous removal likely occured here in past. |
| 23 | 42201 - Natural Nocci Canopy Species Red Maple Bigtooth Aspen | White Pine, iduous Cover | Pole/Log/Sap Mixed Po Size Class Pole | DBH | er Well | 28.9 Sub-Ca | alsam Fir lack Ash 65 Inopy Species | High 111-140 Density | >20 feet N/A Avg. Height | Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous |
| 23 | 42201 - Natural Natura | White Pine, iduous **Cover** 2 38 | Mixed Po Size Class Pole Pole/Sapling Log/Pole | DBH 5 5 | er Well Age 65 | 28.9 Sub-Ca | alsam Fir lack Ash 65 Inopy Species ed Maple | High 111-140 Density | >20 feet N/A Avg. Height | Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous removal likely occured here in past. |
| 23 | 42201 - Natural Natura | White Pine, iduous Cover 2 38 60 | Pole/Log/Sap Mixed Po Size Class Pole Pole/Sapling Log/Pole | DBH 5 5 12 Nonsto | er Well Age 65 | 28.9 Sub-Ca Re 25.7 | alsam Fir lack Ash 65 anopy Species ed Maple | High 111-140 Density High | >20 feet N/A Avg. Height Variable | Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous removal likely occured here in past. Barber '10 comment: Icr=0.9-0.6 Saw the northern edge of both polygons. Primarily lowland shrub yet clumps of conifer and deciduous present. Shrubs mainly tag alder (10-20ft+) and MI Holly (variable). Trees included Fir (S-P), QA (P-L), RM (S-P), WP, Spruce, Cedar and black ash (sap). Very likely could split out some forested vs. non-forested stands. Edge call from private fenceline on east boundary (had permission to be |
| 23 | 42201 - Natural Natura | White Pine, iduous Cover 2 38 60 Wland Shrub | Pole/Log/Sap Mixed Po Size Class Pole Pole/Sapling Log/Pole | DBH 5 5 12 Nonsto | er Well Age 65 | 28.9 Sub-Ca Re 25.7 | alsam Fir lack Ash 65 anopy Species ed Maple | High 111-140 Density High nspecified | >20 feet N/A Avg. Height Variable No | Size Sapling Size Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous removal likely occured here in past. Barber '10 comment: Icr=0.9-0.6 Saw the northern edge of both polygons. Primarily lowland shrub yet clumps of conifer and deciduous present. Shrubs mainly tag alder (10-20ft+) and MI Holly (variable). Trees included Fir (S-P), QA (P-L), RM (S-P), WP, Spruce, Cedar and black ash (sap). Very likely could split out some forested vs. non-forested stands. |
| 23 24 25 | 42201 - Natural Natura Natural Natural Natural Natural Natural Natural Natural Natura | White Pine, iduous Cover 2 38 60 Wland Shrub | Pole/Log/Sap Mixed Po Size Class Pole Pole/Sapling Log/Pole Pole Size Class Pole Pole | DBH 5 5 12 Nonsto | er Well Age 65 cked | 28.9 Sub-Ca Re 25.7 m 20.4 Sub-Ca | alsam Fir lack Ash 65 Inopy Species ed Maple 70 Un Inopy Species alsam Fir | High 111-140 Density High nspecified | >20 feet N/A Avg. Height Variable No | Size Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous removal likely occured here in past. Barber '10 comment: Icr=0.9-0.6 Saw the northern edge of both polygons. Primarily lowland shrub yet clumps of conifer and deciduous present. Shrubs mainly tag alder (10-20ft+) and MI Holly (variable). Trees included Fir (S-P), QA (P-L), RM (S-P), WP, Spruce, Cedar and black ash (sap). Very likely could split out some forested vs. non-forested stands. Edge call from private fenceline on east boundary (had permission to be on PVT). Primarily saw deciduous on that edge with scattered lowland |
| 23 24 25 | 42201 - Natural Natura | White Pine, iduous Cover 2 38 60 Wland Shrub Aspen, Map Cover 8 4 | Pole/Log/Sap Mixed Po Size Class Pole Pole/Sapling Log/Pole Pole Size Class Pole/Log Log/Pole/Sap | DBH 5 5 12 Nonsto timber DBH 9 14 | er Well Age 65 cked | 28.9 Sub-Ca Re 25.7 m 20.4 Sub-Ca Ba Re | alsam Fir lack Ash 65 Inopy Species ed Maple 70 Uninopy Species alsam Fir ed Maple | High 111-140 Density High nspecified Density | >20 feet N/A Avg. Height Variable No N/A Avg. Height Variable Variable | Size Sapling Size Sapling Size Sapling Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous removal likely occured here in past. Barber '10 comment: Icr=0.9-0.6 Saw the northern edge of both polygons. Primarily lowland shrub yet clumps of conifer and deciduous present. Shrubs mainly tag alder (10-20ft+) and MI Holly (variable). Trees included Fir (S-P), QA (P-L), RM (S-P), WP, Spruce, Cedar and black ash (sap). Very likely could split out some forested vs. non-forested stands. Edge call from private fenceline on east boundary (had permission to be on PVT). Primarily saw deciduous on that edge with scattered lowland conifer mixing in. Dense lowland shrub component. Likely held canopy |
| 23 24 25 Nor | 42201 - Natural Natura Natural Natural Natural Natural Natural Natural Natural Natura | White Pine, iduous Cover 2 38 60 Wland Shrub Aspen, Map Cover 8 4 | Pole/Log/Sap Mixed Po Size Class Pole Pole/Sapling Log/Pole Pole/Sapling Log/Pole Dile Pole Size Class Pole/Log Log/Pole/Sap Log/XLog/Pole | DBH 5 5 12 Nonsto timber DBH 9 14 14 | er Well Age 65 cked | 28.9 Sub-Ca Re 25.7 m 20.4 Sub-Ca Ba Re BI | alsam Fir lack Ash 65 Inopy Species ed Maple 70 Un Inopy Species alsam Fir ed Maple ack Ash | High 111-140 Density High nspecified Density Medium | >20 feet N/A Avg. Height Variable No N/A Avg. Height Variable Variable Variable Variable | Size Sapling Size Sapling Size Sapling Sapling Sapling Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous removal likely occured here in past. Barber '10 comment: Icr=0.9-0.6 Saw the northern edge of both polygons. Primarily lowland shrub yet clumps of conifer and deciduous present. Shrubs mainly tag alder (10-20ft+) and MI Holly (variable). Trees included Fir (S-P), QA (P-L), RM (S-P), WP, Spruce, Cedar and black ash (sap). Very likely could split out some forested vs. non-forested stands. Edge call from private fenceline on east boundary (had permission to be on PVT). Primarily saw deciduous on that edge with scattered lowland conifer mixing in. Dense lowland shrub component. Likely held canopy |
| 23 24 25 Nor | 42201 - Natural Natura Natural Natural Natural Natural Natural Natural Natural Natural | White Pine, iduous Cover 2 38 60 Wland Shrub Aspen, Map Cover 8 4 10 8 | Pole/Log/Sap Mixed Po Size Class Pole Pole/Sapling Log/Pole Pole Size Class Pole/Log/Pole Log/Pole/Sap Log/Yole/Sap Log/XLog/Pole Pole/Log | DBH 5 5 12 Nonsto timber DBH 9 14 | er Well Age 65 cked | 28.9 Sub-Ca Re 25.7 m 20.4 Sub-Ca Ba Re Blace | alsam Fir lack Ash 65 Inopy Species ad Maple 70 Uninopy Species alsam Fir led Maple lack Ash lck Spruce | High 111-140 Density High nspecified Density Medium High Medium Low | >20 feet N/A Avg. Height Variable No N/A Avg. Height Variable Variable Variable Variable Variable Variable | Size Sapling Size Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous removal likely occured here in past. Barber '10 comment: Icr=0.9-0.6 Saw the northern edge of both polygons. Primarily lowland shrub yet clumps of conifer and deciduous present. Shrubs mainly tag alder (10-20ft+) and MI Holly (variable). Trees included Fir (S-P), QA (P-L), RM (S-P), WP, Spruce, Cedar and black ash (sap). Very likely could split out some forested vs. non-forested stands. Edge call from private fenceline on east boundary (had permission to be on PVT). Primarily saw deciduous on that edge with scattered lowland conifer mixing in. Dense lowland shrub component. Likely held canopy ash in the recent past. |
| 23 24 25 Nor | 42201 - Natural Natura | White Pine, iduous Cover 2 38 60 Wland Shrub Aspen, Map Cover 8 4 10 8 15 | Pole/Log/Sap Mixed Po Size Class Pole Pole/Sapling Log/Pole Pole Size Class Pole Log/Pole Pole/Log Log/Pole/Sap Log/XLog/Pole Pole/Log Pole/Log Pole/Log | DBH 5 5 12 Nonsto timber DBH 9 14 14 | er Well Age 65 cked | 28.9 Sub-Ca Re 25.7 m 20.4 Sub-Ca Ba Re Bl Blac Wi | alsam Fir lack Ash 65 Inopy Species ed Maple Un 70 Unopy Species alsam Fir ed Maple lack Ash lock Spruce lld Raisin | High 111-140 Density High nspecified Density Medium High Medium Low Medium Medium | >20 feet N/A Avg. Height Variable No N/A Avg. Height Variable Variable Variable Variable Variable 5 - 10 feet | Size Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous removal likely occured here in past. Barber '10 comment: Icr=0.9-0.6 Saw the northern edge of both polygons. Primarily lowland shrub yet clumps of conifer and deciduous present. Shrubs mainly tag alder (10-20ft+) and MI Holly (variable). Trees included Fir (S-P), QA (P-L), RM (S-P), WP, Spruce, Cedar and black ash (sap). Very likely could split out some forested vs. non-forested stands. Edge call from private fenceline on east boundary (had permission to be on PVT). Primarily saw deciduous on that edge with scattered lowland conifer mixing in. Dense lowland shrub component. Likely held canopy ash in the recent past. |
| 23 24 25 Nor | 42201 - Natural Natura Natural Natural Natural Natural Natural Natural Natural Natural | White Pine, iduous Cover 2 38 60 Wland Shrub Aspen, Map Cover 8 4 10 8 | Pole/Log/Sap Mixed Po Size Class Pole Pole/Sapling Log/Pole Pole Size Class Pole/Log/Pole Log/Pole/Sap Log/Yole/Sap Log/XLog/Pole Pole/Log | DBH 5 5 12 Nonsto timber DBH 9 14 14 9 | er Well Age 65 cked | 28.9 Sub-Ca Re 25.7 m 20.4 Sub-Ca Ba Re Bl Blac Wi | alsam Fir lack Ash 65 Inopy Species ad Maple 70 Uninopy Species alsam Fir led Maple lack Ash lck Spruce | High 111-140 Density High nspecified Density Medium High Medium Low | >20 feet N/A Avg. Height Variable No N/A Avg. Height Variable Variable Variable Variable Variable Variable | Size Sapling Size Sapling Size Sapling Sapling Sapling Sapling Sapling Sapling | lockdown). Above data is Barber's inventory from 07/01/10. I did see northern edge while collecting data in Stand 20. WP component appeared strong, with mixed deciduous prominent throughout. Likely smaller components of RO, HM, BE, RP and Hem too. BA range was required, I estimated 111-140. Though no record found, deciduous removal likely occured here in past. Barber '10 comment: Icr=0.9-0.6 Saw the northern edge of both polygons. Primarily lowland shrub yet clumps of conifer and deciduous present. Shrubs mainly tag alder (10-20ft+) and MI Holly (variable). Trees included Fir (S-P), QA (P-L), RM (S-P), WP, Spruce, Cedar and black ash (sap). Very likely could split out some forested vs. non-forested stands. Edge call from private fenceline on east boundary (had permission to be on PVT). Primarily saw deciduous on that edge with scattered lowland conifer mixing in. Dense lowland shrub component. Likely held canopy ash in the recent past. |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age B | A Range | Managed Site | | General Comments |
|-------|---------------------------------------|----------------|--------|--------------|---------|--------------|------|--|
| 26 | 4111 - S.Maple, Hard Mast Association | Sapling Medium | 33.3 | 51 | 51-80 | N/A | | JSP '20 comment: Stand wasn't visited during '20 inventory (Cov lockdown). Above data is Barber's inventory from 07/01/10. I did |
| | Canopy Species % Cover Size Class | s DBH Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | data in Std58 (ATLC172) to west in '14. Quite likely the two standards |

| Canopy Species | % Cove | r Size Class | DBH | l Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|--------|--------------|-----|-------|--------------------|---------|--------------|---------|
| Sugar Maple | 40 | Sapling/Pole | 4 | 51 | Sugar Maple | Medium | Variable | Sapling |
| Basswood | 20 | Pole | 7 | | Beech | Low | Variable | Sapling |
| Red Oak | 10 | Log | 14 | | White Pine | Medium | 10 - 20 feet | Sapling |
| White Pine | 10 | Pole | 6 | | Ironwood | Medium | 5 - 10 feet | Sapling |
| Ironwood | 20 | Sapling/Pole | 3 | | | | | |

JSP '20 comment: Stand wasn't visited during '20 inventory (Covid lockdown). Above data is Barber's inventory from 07/01/10. I did collect data in Std58 (ATLC172) to west in '14. Quite likely the two stands share similar composition/ages/size classes. Stand 58 has a broad mix of deciduous/conifer, impressive hemlock regen too. Though no record found for either stands, deciduous removal/modified clearcut likely occurred in both, in past.

Barber '10 comment: None

| 27 | 4139 - Aspen, M | lixed De | ciduous Pol | etimb | er Wel | I 40.9 | 57 | 51-80 | N/A | |
|----|-----------------|----------|------------------|-------|--------|---------|-------------|---------|--------------|---------|
| | Canopy Species | % Cove | r Size Class | DBH | l Age | Sub-Can | opy Species | Density | Avg. Height | Size |
| | Sugar Maple | 20 | Sapling/Pole/Log | 4 | 59 | Suga | ır Maple | Medium | >20 feet | Sapling |
| | Red Maple | 12 | Pole/Sap/Log | 9 | | В | eech | Medium | 5 - 10 feet | Sapling |
| | Basswood | 2 | Pole/Log | 9 | | Re | d Oak | Low | >20 feet | Sapling |
| | Paper Birch | 3 | Pole/Sap/Log | 6 | | Red | Maple | Medium | >20 feet | Sapling |
| | Bigtooth Aspen | 40 | Pole/Sap/Log | 7 | 57 | Bals | am Fir | Medium | Variable | Sapling |
| | Balsam Fir | 5 | Pole/Sapling | 7 | | Whi | te Pine | Low | >20 feet | Sapling |
| | White Pine | 7 | Log/XLog/Pole | 15 | | Iror | nwood | Medium | >20 feet | Sapling |
| | Beech | 2 | Pole/Log | 9 | | He | mlock | Medium | 10 - 20 feet | Sapling |
| | Red Oak | 2 | Log/Pole | 12 | | Red | d Pine | Trace | >20 feet | Sapling |
| | Hemlock | 3 | Log/Pole | 12 | | | | · | | |

12

8

Loa

Pole/Loa

BTA dominant w/strong NHD component depending on location. Aspen/NHD species 'slow-growing' on the sandy soils present here. Majority of BTA diameters running quite small given age (+-6-7"). Larger poles and some log sizes are present. Poorer quality, generally nonmerch hard maple saps in canopy, appeared more prevalent in southern areas. RM common too, more present in north. HM, RM and IW saps high in areas, mixing with canopy. Scattered clumps/and singles of generally larger WP present. Canopy hemlock common on perimeter locations. At least medium sub-can stocking of 10-20ft+ hemlock regen observed. Transitional ground on east along Stand 28 holds areas of larger stem sizes (trace spruce too).

| 28 | 6120 - Lov | land Ced | ar S | Sawtimb | er Wel | I 74.1 | 108 | Unspecifie | ed N/A | \ |
|--------|----------------|----------|---------------|---------|--------|----------|------------|------------|-----------------|------------|
| Ca | nopy Species | % Cover | Size Class | DBH | H Age | Sub-Car | opy Spec | ies Dens | ity Avg. Height | Size |
| В | alsam Fir | 6 | Pole/Log | 9 | | Bal | sam Fir | Medi | um 5 - 10 feet | Sapling |
| Northe | rn White Cedar | 50 | Log/Pole/XLog | 11 | 108 | Ta | g Alder | Medi | um 5 - 10 feet | Tall Shrub |
| Ye | ellow Birch | 1 | Pole/Log/XLog | 3 8 | | Black | k Spruce | Lov | v < 5 feet | Seeding |
| P | aper Birch | 5 | Pole/Log | 9 | | Red | d Maple | Medi | um Variable | Sapling |
| Qua | aking Aspen | 18 | Log/XLog/Pole | e 14 | | Pap | er Birch | Lov | v >20 feet | Sapling |
| R | Red Maple | 8 | Pole/Log | 8 | | Yello | ow Birch | Lov | v >20 feet | Sapling |
| V | Vhite Pine | 2 | Log/XLog | 16 | | Bla | ck Ash | Lov | v 5 - 10 feet | Sapling |
| I | Hemlock | 2 | Log/Pole/XLog | 14 | | Northern | White Ced | dar Medi | um < 5 feet | Sapling |
| Bla | ack Spruce | 8 | Log/Pole | 11 | | Balsa | m Poplar | Lov | v 5 - 10 feet | Sapling |
| | | | | | • | Mount | tain Maple | Lov | v 10 - 20 feet | Sapling |

Pure swathes of cedar (w/minor other conifer/decid mixing in) which are interrupted by areas of blowdown, then areas of lowland deciduous/mixed conifer. The areas of deciduous/conifer mix were generally P/S/L, in east/north locations and seemed to be wetter. Blowdown more prevalent along south boundary and has mainly affected cedar. Sub-can in blowdowns heavy to BF, RM, and lesser amounts of NWC/Spruce regen. NWC sap/seed regen was 5ft tall or less, not heavily browsed. 167sqft BA average, BA's variable, high in cedar swathes, lower outside of. One very linear/younger sap/pole feature in south near PVT. Runs E/W cardinal direction, believe this is the result of permit 9-70 and cut in '70, "Cut all merch cedar, BF, spruce, aspen within the 100ft E/W strip marked w/red paint". The strip extends briefly into Stand 27.

Red Pine

Quaking Aspen

2

2

Atlanta Mgt. Unit



| Stan | d Level 4 C | over Type | 8 | Size De | nsity | Acres | Stand Age B | A Range | Managed S | Site | General Comments | |
|------|--------------------|-------------|--------------|---------|---------|---------|--------------|---------|--------------|------------|---|--|
| 29 | 4311 - Pin | e, Aspen M | ix P | oletimb | er Well | 26.4 | 51 | 51-80 | N/A | | JSP '20 comment: Stand wasn't visited during '20 inventory (Covid | |
| | Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Car | nopy Species | Density | Avg. Height | Size | lockdown). Slightly altered Barber's inventory data from 07/01/10 for this stand. Moved WP% 40-45 and gave it age 51yrs. Moved BTA% 45-40. | |
| | Sugar Maple | 15 | Sapling | 4 | | Sug | ar Maple | Medium | >20 feet | Sapling | That changed coverytpe from A6 to UM6. I inventoried Stds 60/68 | |
| | Bigtooth Aspen | 40 | Pole/Sap/Log | 6 | 51 | Wh | ite Pine | Low | 10 - 20 feet | Sapling | (ATLC172) to west in '14. Quite likely this stand is a compositionally | |
| | White Pine | 45 | Log/Pole | 10 | 51 | Iro | nwood | Medium | 5 - 10 feet | Sapling | similar mixture of those two (ATLC172) stands, a pine/aspen mix. No cut records found for any ot these stands. | |
| | | | | | | Oa | k (spp.) | Low | 5 - 10 feet | Sapling | Barber '10 comment: None | |
| 30 | 4111 - S.Maple, Ha | ard Mast As | ssociation P | oletimb | er Well | 59.5 | 51 | 51-80 | N/A | | JSP '20 comment: Stand wasn't visited during '20 inventory (Covid | |
| | Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Car | nopy Species | Density | Avg. Height | Size | lockdown). Above data is Barber's inventory from 6/30/10. I have driven through stand numerous times on Orchard Beach Rd. I inventoried Std69 | |
| | Sugar Maple | 50 | Pole/Sapling | 6 | 51 | Sug | ar Maple | Low | 10 - 20 feet | Sapling | to west (ATLC172) in '14. Imagery and what I was able to observe from | |
| | Basswood | 10 | Log/Pole | 10 | | Ba | sswood | Medium | 5 - 10 feet | Sapling | O.B. Rd lends me to believe this stand should be very similar in species | |
| | Beech | 20 | Pole | 6 | | | | | | | composition, age, BA range, etc as Std69. Imagery shows a prominen patch of conifer in NE, and what is most likely fir in southern areas of the | |
| | Bigtooth Aspen | 10 | Log | 12 | | | | | | | stand. No records found for either stand. N.hardwood quality in this area | |
| | Ironwood | 10 | Sapling | 4 | | | | | | | is typically marginal at best, with scattered stems of decent/better quality. | |
| | | | | | 1 | | | | | | Barber '10 comment: None | |
| 31 | | wland Mapl | | Saplin | | 25.6 | 39 | 1-50 | N/A | | RM sapling (some poles) dominated with a scattered second age class. Added RM saps Full in sub-can to reinforce its presence. MiFI wouldn't | |
| | Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Car | nopy Species | Density | Avg. Height | Size | allow RM logs in canopy list, they're present. Unclear whether the | |
| | Black Spruce | 5 | Pole | 8 | | Ta | g Alder | Medium | 5 - 10 feet | Tall Shrub | stucture of this stand is the result of a harvest or because of the constant | |
| | Quaking Aspen | 15 | Log | 12 | | Red | d Maple | Full | >20 feet | Sapling | flux in water table? Average BA came in at 44sqft (low=20, high=80). Very difficult to see the exact covertype boundary, both on imagery and | |
| | Paper Birch | 8 | Pole/Sap/Log | 8 | | Bal | sam Fir | Low | Variable | Sapling | on the ground. Boundaries gradually 'blend' from Stand 13 into this stand, | |
| | Balsam Fir | 12 | Pole/Sap/Log | 8 | 65 | Pap | er Birch | Medium | >20 feet | Sapling | and vice-versa. Southern polygon was more definable. | |
| | Red Maple | 60 | Sapling/Pole | 4 | 39 | Wil | d Raisin | Medium | 5 - 10 feet | Tall Shrub | | |
| | | | | | | Hazeln | ut (Beaked) | Medium | 5 - 10 feet | Tall Shrub | | |
| 32 | 4116 - Mixed N. | Hardwood | - Aspen P | oletimb | er Well | 38.3 | 60 | 51-80 | N/A | | JSP '20 comment: Stand wasn't visited during '20 inventory (Covid | |
| | Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Car | nopy Species | Density | Avg. Height | Size | lockdown). Above data is Barber's inventory from 6/22/10. Did drive by the stand numerous times while on Krouse Rd. Looked pole dominant | |
| | Sugar Maple | 60 | Sapling/Pole | 4 | 60 | Е | Beech | Low | 5 - 10 feet | Sapling | w/some scattered log sized N.hardwood. Similar to other N.hardwood | |
| | Basswood | 15 | Pole | 9 | | Iro | nwood | Full | < 5 feet | Sapling | stands in the area, overall quality appeared marginal (based upon my | |
| | Beech | 5 | Pole | 8 | | | | | | | windshield forestry). Also saw the aspen Barber mentioned (near the north end). No records found for this stand. | |
| | Bigtooth Aspen | 20 | Log | 13 | | | | | | | Barber's '10 comment: sappling/pole stand with aspen in north end | |
| 33 | 4130 | - Aspen | P | oletimb | er Well | 15.5 | 45 | 51-80 | N/A | | JSP '20 comment: Stand wasn't visited during '20 inventory (Covid | |
| | Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Car | nopy Species | Density | Avg. Height | Size | lockdown). Above data is Barber's inventory from 6/30/10. I inventoried Std65 to west (ATLC172) in '14. Imagery lends me to believe this stand | |
| | Red Maple | 20 | Pole | 6 | | Red | d Maple | Medium | 5 - 10 feet | Sapling | should be very similar in species composition, age, DBH's, BA range, | |
| | Bigtooth Aspen | 70 | Pole/Sapling | 6 | 45 | Bal | sam Fir | Medium | 5 - 10 feet | Sapling | etc. to Std65 (ATLC172). There's probably 'low ground' interface along | |
| | Balsam Fir | 10 | Pole/Sapling | 7 | | | | | | | the southern boundary and a south facing slope. No records found for either stand. | |
| | | | | | | | | | | | Barber '10 comment: aspen dbh runs 3-12 inches, mostly 5-8 inches. | |



| tand Level 4 (| Cover Type | | Size De | ensity | Acres | Stand Age E | sa Kange | Managed | 9116 | General Comments | | |
|---------------------------|-------------|--------------|---------|---------|----------|---------------|----------|--------------|------------|---|--|--|
| 34 6120 - Lo | owland Ceda | ar Po | oletimb | er Well | 6.4 | 130 | 171-200 | N/A | | Wasn't able to visit the small western polygon in '20 (Covid shutdown 198 imagery shows that this area may of been too wet to harvest wher | | |
| Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | surrounding area was cut in '70's. Color, tone, texture looks very simil | | |
| Red Maple | 2 | Log/Pole | 12 | | Ва | alsam Fir | Medium | 10 - 20 feet | Sapling | to larger east polygon I did visit. East Poly: Blowdown in south and so | | |
| Balsam Fir | 5 | Pole/Sapling | 6 | | Re | ed Maple | Low | >20 feet | Sapling | canopy dieback in cedar (throughout stand). Small upland 'lump' in center, holds the WP, RM, QA, PB and hemlock. Fairly obvious/densi | | |
| Northern White Cedar | 78 | Pole/Log | 9 | 130 | Ba | alsam Fir | High | < 5 feet | Seeding | seedlings in areas of lower canopy closure/blowdown. Wet, mucky ar | | |
| Black Spruce | 8 | Pole/Log | 9 | | Lab | rador Tea | Medium | < 5 feet | Tall Shrub | | | |
| White Pine | 1 | XLog | 18 | | Ta | ag Alder | Medium | 10 - 20 feet | Tall Shrub | | | |
| Hemlock | 2 | XLog/Log | 18 | | | | | | | | | |
| Paper Birch | 2 | Log/Pole | 11 | | | | | | | | | |
| Quaking Aspen | 2 | Log/XLog | 13 | | | | | | | | | |
| 8 5 6112 - Lo | wland Aspe | en | Sapling | g Well | 70.1 | 42 | 1-50 | N/A | | Harvested from '75-'81 under contract 63-75A (17-75A) w/several | | |
| Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | adjacent stands. "Cut all merch timber and cut all cedar that will yield or more posts and/or pickets to a 2" top". Estimated cut acreage was | | |
| Balsam Poplar | 8 | Sapling/Pole | 4 | | Ba | alsam Fir | High | 10 - 20 feet | Sapling | 100ac. Walked down the middle of the stand (W to E) and briefly saw | | |
| Balsam Fir | 14 | Sapling | 3 | | Ta | ag Alder | Medium | 10 - 20 feet | Tall Shrub | | | |
| Black Spruce | 5 | Sapling | 4 | | Ba | alsam Fir | Medium | < 5 feet | Seeding | BF/NWC and other minor species. BF/NWC saps mixing in with lower portions of the canopy. Majority of aspen is nearly pole and/or just | | |
| Tamarack | 4 | Sapling | 4 | | Blad | ck Spruce | Low | < 5 feet | Seeding | converted. Felt a 'smidge' to soon to call poles dominant. Pockets ha | | |
| Paper Birch | 5 | Sapling | 3 | | Northern | n White Cedar | Low | < 5 feet | Seeding | converted though, seemingly more in eastern area. Cedar regen is | | |
| Northern White Cedar | 14 | Sapling/Pole | 3 | | Northern | n White Cedar | Medium | 10 - 20 feet | Sapling | encouraging, 10-20ft was average, some +- though. Northeast (I didr yet see) appears heavier to conifer based upon imagery. Stand was | | |
| Quaking Aspen | 50 | Sapling/Pole | 4 | 42 | Ta | amarack | Low | 5 - 10 feet | Sapling | during inventory but does likely have dry areas during times of the ye | | |
| | | | | · | Mich | nigan Holly | Medium | 5 - 10 feet | Tall Shrub | few 'skipped' cedar/conifer clumps present, likely less merch at time | | |
| | | | | | Red Os | sier Dogwood | Low | < 5 feet | Tall Shrub | harvest. | | |
| | | | | | Wi | ild Raisin | Medium | 5 - 10 feet | Tall Shrub | | | |
| | | | | | ВІ | lack Ash | Medium | >20 feet | Sapling | | | |
| | | | | | Bals | am Poplar | Low | 5 - 10 feet | Sapling | | | |
| | | | | | Na | nnyberry | Medium | 10 - 20 feet | Tall Shrub | | | |
| 36 6139 - Mixed | d Lowland F | orest | Sapling | g Well | 15.6 | 62 | 1-50 | N/A | | Predominantly sap/pole w/scattered QA/WP logs. A few NWC/Spruce | | |
| Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | logs too. Heavy lowland shrub and black ash component. Thick, dens and very wet, at least two-aged. Most QA dying and/or dead on the | | |
| Red Maple | 12 | Sapling/Pole | 3 | | Ba | alsam Fir | Medium | < 5 feet | Seeding | stump. Narrow inclusion in north along powerline corridor includes la | | |
| Quaking Aspen | 12 | Log/Pole/Sap | 12 | | Bals | am Poplar | Low | 5 - 10 feet | Sapling | log (some xlog) QA, RM, WP, hemlock and balance of species listed | | |
| Balsam Fir | 12 | Sapling/Pole | 3 | | Ta | ag Alder | High | 10 - 20 feet | Tall Shrub | canopy. Portions of this inclusion appeared upland. | | |
| Black Ash | 14 | Sapling | 3 | | Mich | nigan Holly | High | 5 - 10 feet | Tall Shrub | | | |
| Black Spruce | 15 | Pole/Sapling | 7 | 113 | | | | | | 1 | | |
| | 14 | Sapling/Pole | 4 | | | | | | | | | |
| Paper Birch | | | 4.5 | | | | | | | | | |
| Paper Birch White Pine | 5 | Log/XLog | 15 | | | | | | | | | |

Atlanta Mgt. Unit Report 7 – Stands



| Stand | Level 4 Co | over Type | S | ize De | ensity | Acres Stand | d Age BA Range | Managed 9 | 3ite | General Comments | |
|-------|---|--|---|--|--------------|---|--|--|--|---|--|
| 38 | 6120 - Lowland Cedar | | ar S | Sapling Wel | | 13.1 10 | 5 1-50 | N/A | | NWC and Blk Spruce primarily dominate. NWC is ~105yrs and sapling | |
| (| Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Canopy S | Species Densit | ty Avg. Height | Size | sized (a few poles). Common NWC DBH's ranged 3-6". Black spruce is the same age but taller and generally medium pole size. A western area | |
| | Black Ash | 4 | Sapling | 3 | | Balsam F | ir High | < 5 feet | Seeding | was a bit more spruce dominant. Thick and dense, didn't see entire | |
| | Tamarack | 5 | Pole/Log | 9 | | Northern White | Cedar Low | < 5 feet | Seeding | stand. Some crown dieback across most species that are present. Ceda | |
| | Paper Birch | 3 | Sapling/Pole | 4 | | Black Asl | h Mediu | m 5 - 10 feet | Sapling | is layering in spots. Don't come across to many C3 stands. | |
| C | Quaking Aspen | 3 | Pole | 7 | | Black Spru | ice Low | < 5 feet | Seeding | | |
| | Balsam Fir | 12 | Sapling/Pole | 3 | | Balsam F | ir High | 5 - 10 feet | Sapling | | |
| / | Black Spruce | 20 | Pole/Sapling | 7 | 102 | Tag Alde | r High | 10 - 20 feet | Tall Shrub | | |
| Nort | hern White Cedar | 53 | Sapling/Pole | 4 | 105 | Labrador T | ea Mediu | m < 5 feet | Tall Shrub | | |
| | | | | | | Michigan H | olly Mediu | m 5 - 10 feet | Tall Shrub | | |
| 39 | 6119 - Mixed Lo | wland Deci orest | iduous Sa | | er We | l 25.8 85 | 5 111-140 | N/A | | Lowland soft maple w/strong components of QA and PB. Prevalence of PB increases in north. QA is generally large and tired. A lot of RM saps | |
| (| Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Canopy S | Species Densit | ty Avg. Height | Size | yet not quite as many as neighboring Stands 2/11. Scattered YB in canopy, some regen too. Wet and mucky when visited, quite a few | |
| | Red Maple | 50 | Log/Pole/XLog | 12 | 85 | Red Mapl | le High | >20 feet | Sapling | lowland shrub indicator species. | |
| C | Quaking Aspen | 25 | Log/XLog | 14 | | Tag Alde | r Low | 5 - 10 feet | Tall Shrub | | |
| | Yellow Birch | 2 | Log/Pole | 12 | | Balsam F | ir Low | 10 - 20 feet | Sapling | | |
| | Balsam Fir | 3 | Pole/Sapling | 7 | | Beech | Low | 5 - 10 feet | Sapling | | |
| | Paper Birch | 20 | Log/Pole | 11 | | Paper Bird | ch Mediu | m >20 feet | Sapling | | |
| | | | | | | Black Spru | ice Trace | e 5 - 10 feet | Sapling | | |
| | | | | | | Black Asl | h Mediu | m >20 feet | Sapling | | |
| | | | | | | Yellow Bire | ch Low | >20 feet | Sapling | | |
| | | | | | | Mountain Ma | aple High | 10 - 20 feet | Sapling | | |
| 40 | 6225 | i - Bog | l | Nonsto | ocked | 11.8 | Unspecified | d No | | Leather leaf very common. Conifer species populate southern portions along/near Stand 12. | |
| 41 | 4136 - Aspen | , Mixed Co | nifer Sa | awtimb | | | | | | | |
| (| Canopy Species | | | | er vve | I 14.7 80 | 111-140 | N/A | | Narrow vein (except north end) of aspen, RM, clumpy WP and mixed | |
| | | % Cover | Size Class | | erwe IAge | Sub-Canopy S | | | Size | deciduous on a slight slope. East boundary slopes toward lowland | |
| Р | Red Maple | % Cover | Size Class Pole/Log | | | | Species Densit | ty Avg. Height | | | |
| | | 24 | | DB H | | Sub-Canopy S | Species Densit | Avg. Height m >20 feet | Size | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, | |
| | Red Maple | 24 | Pole/Log | DB H | l Age | Sub-Canopy S Red Mapl | Species Densit le Mediu ir Mediu | Avg. Height >20 feet Variable | Size Sapling | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, RO and RP in canopy. Some hemlock regen in south (10-20ft). RO saps | |
| | Red Maple Bigtooth Aspen | 24 44 2 | Pole/Log Log/Pole/XLog | 8 12 6 | l Age | Sub-Canopy S Red Mapl Balsam F | Species Densit le Mediu iir Mediu ch Trace | Avg. Height >20 feet Variable >20 feet | Size Sapling Sapling | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, | |
| | Red Maple Bigtooth Aspen Balsam Fir | 24 44 2 | Pole/Log Log/Pole/XLog Pole/Sapling | 8 12 6 | l Age | Sub-Canopy S Red Mapl Balsam F Paper Bird | Species Densitive Medium Medium Medium Trace Low | Avg. Height >20 feet Variable e >20 feet >20 feet >20 feet | Size Sapling Sapling Sapling | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, RO and RP in canopy. Some hemlock regen in south (10-20ft). RO saps (>20ft) present in small numbers but good/decent form w/developed | |
| | Red Maple Bigtooth Aspen Balsam Fir White Pine | 24 44 2 15 | Pole/Log Log/Pole/XLog Pole/Sapling Log/Pole/XLog | 8 12 6 13 | l Age | Sub-Canopy S Red Mapl Balsam F Paper Bird Red Oak | Species Densit le Mediu iir Mediu ch Trace Low ole Low | Avg. Height >20 feet Variable >20 feet >20 feet >20 feet >20 feet >20 feet | Size Sapling Sapling Sapling Sapling Sapling | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, RO and RP in canopy. Some hemlock regen in south (10-20ft). RO sapt (>20ft) present in small numbers but good/decent form w/developed canopies. Beaver sign observed along north boundary of this stand, near | |
| | Red Maple Bigtooth Aspen Balsam Fir White Pine Hemlock | 24 44 2 15 2 | Pole/Log Log/Pole/XLog Pole/Sapling Log/Pole/XLog Log/XLog | 8 12 6 13 15 | l Age | Sub-Canopy S Red Mapl Balsam F Paper Bird Red Oak Sugar Map | Species Densit le Mediu cir Mediu ch Trace C Low ole Low le Low | Avg. Height >20 feet Variable >20 feet >20 feet >20 feet >20 feet >20 feet >20 feet | Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, RO and RP in canopy. Some hemlock regen in south (10-20ft). RO sapt (>20ft) present in small numbers but good/decent form w/developed canopies. Beaver sign observed along north boundary of this stand, near | |
| | Red Maple Bigtooth Aspen Balsam Fir White Pine Hemlock Red Pine | 24 44 2 15 2 | Pole/Log Log/Pole/XLog Pole/Sapling Log/Pole/XLog Log/XLog Log | BH 8 12 6 13 15 11 | l Age | Sub-Canopy S Red Mapl Balsam F Paper Bird Red Oak Sugar Map White Pin | Species Densit le Mediu cir Mediu ch Trace C Low ole Low le Low | Avg. Height >20 feet Wariable >20 feet >20 feet >20 feet >20 feet >20 feet >10 - 20 feet 10 - 20 feet | Size Sapling Sapling Sapling Sapling Sapling Sapling | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, RO and RP in canopy. Some hemlock regen in south (10-20ft). RO sapt (>20ft) present in small numbers but good/decent form w/developed canopies. Beaver sign observed along north boundary of this stand, near | |
| | Red Maple Bigtooth Aspen Balsam Fir White Pine Hemlock Red Pine Sugar Maple | 24 44 2 15 2 2 5 | Pole/Log Log/Pole/XLog Pole/Sapling Log/Pole/XLog Log/XLog Log Pole | BH 8 12 6 13 15 11 8 | l Age | Sub-Canopy S Red Mapl Balsam F Paper Bird Red Oak Sugar Map White Pin Hemlock | Densitive Medium | Avg. Height >20 feet Variable e >20 feet >20 feet >20 feet 10 - 20 feet Variable Variable | Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, RO and RP in canopy. Some hemlock regen in south (10-20ft). RO sap (>20ft) present in small numbers but good/decent form w/developed canopies. Beaver sign observed along north boundary of this stand, near | |
| | Red Maple Bigtooth Aspen Balsam Fir White Pine Hemlock Red Pine Sugar Maple Red Oak | 24 44 2 15 2 2 5 | Pole/Log Log/Pole/XLog Pole/Sapling Log/Pole/XLog Log/XLog Log Pole Log/Pole | DBH 8 12 6 13 15 11 8 15 | l Age | Sub-Canopy S Red Mapl Balsam F Paper Bird Red Oak Sugar Map White Pin Hemlock Beech | Becies Densitive Medium Medium Medium Trace Low Dile Low Medium M | Avg. Height >20 feet Variable >20 feet Variable Variable Variable | Size Sapling | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, RO and RP in canopy. Some hemlock regen in south (10-20ft). RO sapt (>20ft) present in small numbers but good/decent form w/developed canopies. Beaver sign observed along north boundary of this stand, near | |
| | Red Maple Bigtooth Aspen Balsam Fir White Pine Hemlock Red Pine Sugar Maple Red Oak Paper Birch | 24 44 2 15 2 2 5 2 2 | Pole/Log Log/Pole/XLog Pole/Sapling Log/Pole/XLog Log/XLog Log Pole Log/Pole Log/Pole | DBH 8 12 6 13 15 11 8 15 10 | l Age | Sub-Canopy S Red Mapl Balsam F Paper Bird Red Oak Sugar Map White Pin Hemlock Beech Ironwood | Species Densit Ide Mediu Trace C Low Dele Low High High Densit Mediu High Low High Low High Low High Low High | Avg. Height >20 feet Variable >20 feet >20 feet >20 feet >20 feet >20 feet >20 feet Variable Variable Variable Variable 5 - 10 feet | Size Sapling | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, RO and RP in canopy. Some hemlock regen in south (10-20ft). RO saps (>20ft) present in small numbers but good/decent form w/developed canopies. Beaver sign observed along north boundary of this stand, near | |
| | Red Maple Bigtooth Aspen Balsam Fir White Pine Hemlock Red Pine Sugar Maple Red Oak Paper Birch | 24 44 2 15 2 2 5 2 2 | Pole/Log Log/Pole/XLog Pole/Sapling Log/Pole/XLog Log/XLog Log Pole Log/Pole Log/Pole | DBH 8 12 6 13 15 11 8 15 10 | l Age | Sub-Canopy S Red Mapl Balsam F Paper Bird Red Oak Sugar Map White Pin Hemlock Beech Ironwood Striped Ma | Species Densit Ide Mediu Trace Low Dele Low High High ple Low Trace | Avg. Height >20 feet Variable >20 feet >30 feet >40 feet >40 feet 50 feet 50 feet Variable 50 Variable 50 feet 50 feet 50 feet 50 feet | Size Sapling | deciduous on a slight slope. East boundary slopes toward lowland features, west against upland. Mostly dry except the 'bump' on east boundary near center of stand. More A9 at the 'ends' of the stand, MD inbetween. Clumps and scattered WP, minor components of hemlock, RO and RP in canopy. Some hemlock regen in south (10-20ft). RO sapt (>20ft) present in small numbers but good/decent form w/developed canopies. Beaver sign observed along north boundary of this stand, near | |



| Stan | d Level 4 Co | ver Type | Si | ize De | ensity | Acres Stand Age I | BA Range | Managed S | Site | General Comments |
|------|--|------------------------|---|------------------|---------------------------------------|--|-------------------------|---|--|--|
| 43 | | | | oletimber Well | | 5.7 75 L | Jnspecified | N/A | | Spruce w/small component of RM, QA and PB. Wet when visited but appeared to have some areas that are likely drier depending on time of |
| | Canopy Species | % Cover | Size Class | DBI | l Age | Sub-Canopy Species | Density | Avg. Height | Size | year. Numerous fire scar stumps present, some quite tall. New and old |
| | Red Maple | 10 | Log/Pole | 11 | | Black Spruce | High | >20 feet | Sapling | beaver activity on west boundary with Stand 46. Some spruce mortality |
| | Quaking Aspen | 4 | Log | 12 | | Labrador Tea | Low | < 5 feet | Tall Shrub | occuring on the same boundary (wet). Variable BA swings, 30, 140 and 100. |
| | Balsam Fir | 3 | Pole | 6 | | Red Maple | Medium | >20 feet | Sapling | 100. |
| | Black Spruce | 79 | Pole/Sap/Log | 7 | 75 | | | | | |
| | Paper Birch | 4 | Pole/Log | 9 | | | | | | |
| 44 | 4 6129 - Mixed Coniferous Lowland Sap Forest | | | Saplin | g Well | 14.1 42 1-50 | | N/A | | Harvested from '75-'81 under contract 63-75A (17-75A) w/adjacent stands to east. "Cut all merch timber and cut all cedar that will yield one |
| | Canopy Species | % Cover | Size Class | DBI | l Age | Sub-Canopy Species | Density | Avg. Height | Size | or more posts and/or pickets to a 2" top". Estimated cut acreage was 100ac. Quite Impressive Iowland (w/up) conifer regen, even cedar. |
| | Balsam Fir | 15 | Sapling/Pole | 3 | | Black Spruce | Low | < 5 feet | Seeding | Growth rings impressive for the cedar and larch I aged. Larch was a 7.1" |
| | Black Spruce | 15 | Sapling | 2 | | Tag Alder | High | 10 - 20 feet | Tall Shrub | (~37yrs), cedar a 2.8" (~42yrs). Larch seemed to have more reliable pole |
| | Tamarack | 20 | Sapling/Pole | 4 | 37 | Northern White Cedar | Low | < 5 feet | Seeding | sizes scattered about. Upland tendencies in spots (previous inventory |
| | Quaking Aspen | 8 | Sapling/Pole | 4 | | Wild Raisin | Medium | 5 - 10 feet | Tall Shrub | had the stand as upland). Saw the southern 1/2, would like to see the rest. Very dense in areas, then somewhat easier locations to walk |
| | Paper Birch | 5 | Sapling | 3 | | Michigan Holly | Medium | 5 - 10 feet | Tall Shrub | |
| | Balsam Poplar | 2 | Sapling/Pole | 4 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | | |
| 45 | | | | | 14.6 38 1-50 | | N/A | | Red maple sapling dominant, some have converted to poles. Scattered older age class of RM logs and P/L Fir, some QA too. Decent componer | |
| | Canopy Species | | Size Class | | l Age | Sub-Canopy Species | | Avg. Height | Size | of P/S PB. Stand has the appearance of being harvested, if so it wasn't |
| | Red Maple | 70 | Sapling/Pole | 7 | 38 | Balsam Fir | Low | 5 - 10 feet | Sapling | too long ago. The NW1/4 was previously split out. Merged that 'chunk' into this stand. That area appeared wetter and from the edge of Stand |
| | Quaking Aspen | 7 | Pole/Sapling | | 75 | Tag Alder | Medium | 5 - 10 feet | Tall Shrub | 43, appeared to have more QA saps and increased but scattered spruce. |
| | Balsam Fir | 8 | Pole/Sap/Log | 6 | 75 | Red Maple | High | 10 - 20 feet | Sapling | Trace pole black cherry. |
| | Black Spruce | 3 | Sapling | 2 | | Michigan Holly | High | 5 - 10 feet | Tall Shrub | |
| | Paper Birch | 12 | Pole/Sap/Log | 5 | | Viburnum | Low | 5 - 10 feet | Tall Shrub | |
| 46 | 6223 - Inundate | ed Shrub S | Swamp N | Nonst | ocked | 43.5 L | Jnspecified | No | | Vast flooded area. A lot of dead standing stems in the north and as you move away from the shoreline (50+- yards). Some living red maple present (S/P). Was able to walk while frozen during '20 inventory. New and old beaver activity observed. Alder and other lowland shrubs are |
| | | | | | | | | | | prevelant depending upon location. This stand appeared to be slowly expanding out and affecting its surrounding neighbors. |
| 49 | 6119 - Mixed Lov Fo | wland Dec | iduous S | Saplin | g Well | 5.7 30 | 1-50 | N/A | | prevelant depending upon location. This stand appeared to be slowly expanding out and affecting its surrounding neighbors. MiFI wouldn't allow S/P/L RM (RM present as log too). Primarily a RM sapling dominated stand. Obvious components of PB, QA and lesser |
| 49 | | rest | iduous S | | l Age | 5.7 30 Sub-Canopy Species | | N/A Avg. Height | Size | prevelant depending upon location. This stand appeared to be slowly expanding out and affecting its surrounding neighbors. MiFI wouldn't allow S/P/L RM (RM present as log too). Primarily a RM sapling dominated stand. Obvious components of PB, QA and lesser amounts of BAM, BF and BlkSprc. Saps in transition to pole, RM lagging |
| 49 | Fo | rest | | | | | | | Size Sapling | prevelant depending upon location. This stand appeared to be slowly expanding out and affecting its surrounding neighbors. MiFI wouldn't allow S/P/L RM (RM present as log too). Primarily a RM sapling dominated stand. Obvious components of PB, QA and lesser |
| 49 | Canopy Species | rest % Cover | Size Class | DBI | l Age | Sub-Canopy Species | Density | Avg. Height | | prevelant depending upon location. This stand appeared to be slowly expanding out and affecting its surrounding neighbors. MiFI wouldn't allow S/P/L RM (RM present as log too). Primarily a RM sapling dominated stand. Obvious components of PB, QA and lesser amounts of BAM, BF and BlkSprc. Saps in transition to pole, RM lagging the most. Second age class of P/L and L/P PB, RM, QA and conifer. Entire perimeter mixing with various Stand 5 species. Some western locations appear to be upland at times. East dips down into a wet lowland. |
| 49 | Canopy Species Red Maple | % Cover | Size Class Sapling/Pole | DBI | 1 Age 30 | Sub-Canopy Species Balsam Fir | Density Medium | Avg. Height Variable | Sapling | prevelant depending upon location. This stand appeared to be slowly expanding out and affecting its surrounding neighbors. MiFI wouldn't allow S/P/L RM (RM present as log too). Primarily a RM sapling dominated stand. Obvious components of PB, QA and lesser amounts of BAM, BF and BlkSprc. Saps in transition to pole, RM lagging the most. Second age class of P/L and L/P PB, RM, QA and conifer. Entire perimeter mixing with various Stand 5 species. Some western locations appear to be upland at times. East dips down into a wet lowland shrubby area. Unsure if harvested in past? Or composition is result of |
| 49 | For Canopy Species Red Maple Paper Birch | % Cover 56 18 | Size Class Sapling/Pole Pole/Sap/Log | DBI | 1 Age 30 | Sub-Canopy Species Balsam Fir Tag Alder | Density Medium Medium | Avg. Height Variable Variable | Sapling Tall Shrub | prevelant depending upon location. This stand appeared to be slowly expanding out and affecting its surrounding neighbors. MiFI wouldn't allow S/P/L RM (RM present as log too). Primarily a RM sapling dominated stand. Obvious components of PB, QA and lesser amounts of BAM, BF and BlkSprc. Saps in transition to pole, RM lagging the most. Second age class of P/L and L/P PB, RM, QA and conifer. Entire perimeter mixing with various Stand 5 species. Some western locations appear to be upland at times. East dips down into a wet lowland. |
| 49 | Canopy Species Red Maple Paper Birch Balsam Poplar | % Cover 56 18 5 | Size Class Sapling/Pole Pole/Sap/Log Sapling/Pole | DBH 4 8 4 | 1 Age 30 | Sub-Canopy Species Balsam Fir Tag Alder Michigan Holly | Medium Medium Low | Avg. Height Variable Variable 5 - 10 feet | Sapling Tall Shrub Tall Shrub | prevelant depending upon location. This stand appeared to be slowly expanding out and affecting its surrounding neighbors. MiFI wouldn't allow S/P/L RM (RM present as log too). Primarily a RM sapling dominated stand. Obvious components of PB, QA and lesser amounts of BAM, BF and BlkSprc. Saps in transition to pole, RM lagging the most. Second age class of P/L and L/P PB, RM, QA and conifer. Entire perimeter mixing with various Stand 5 species. Some western locations appear to be upland at times. East dips down into a wet lowland shrubby area. Unsure if harvested in past? Or composition is result of |



| Stand | Level 4 Co | over Type | Si | ze De | nsity | Acres | Stand Age BA | A Range | Managed S | Site | General Comments |
|---|--|---------------------|--|-----------------------|--------|-----------------|--|-----------------------------|---|--|---|
| 51 6128 | 6128 - Lowland Coniferous, Mixed Po Deciduous | | , Mixed Pole | letimber Medium | | ım 12.9 | m 12.9 46 | | 1-50 N/A | | Believe to of been harvested in '74 under contract 106-73/10, along with all/portions of Stands 8/19. "Cut all merch aspen, PB, RM, BF and |
| Canopy | Species | % Cover | Size Class | DBH | Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | spruce". Estimated total cut acreage was 60ac. Toggles between sapling dominance, to understocked pole/log, then higher stocked P/L then a mix |
| Red Ma | aple | 22 | Log/Pole/Sap | 11 | | Re | ed Maple | High | >20 feet | Sapling | of all the above Plus lowland shrub mixed in. Has appearance of a "cut |
| Paper E | Birch | 8 | Pole/Sap/Log | 8 | | Ва | lsam Fir | High | 10 - 20 feet | Sapling | all merch stems, leave the rest" in areas (2-aged). Larch in canopy in |
| Balsan | n Fir | 33 | Pole/Sap/Log | 7 | 46 | Tag Alder | | Medium | 5 - 10 feet | Tall Shrub | west, center is a clumpy mix of saps/poles/lowland shrub, east has more saps w/scattered pole/logs. Quite wet with pit and mounds. A few areas |
| Northern Wh | nite Cedar | 12 | Log/Pole | 11 | | Quak | king Aspen | Low | >20 feet | Sapling | of 'upland' tendencies. Trace white pine observed. |
| Black S _l | pruce | 12 | Pole/Log | 8 | 80 | Pa | per Birch | Medium | >20 feet | Sapling | , |
| Quaking | Aspen | 3 | Pole/Log | 8 | | R | ed Oak | Trace | >20 feet | Sapling | |
| Tamar | rack | 8 | Log/Pole | 12 | | Ta | marack | Medium | Variable | Sapling | |
| Balsam F | Poplar | 2 | Pole | 8 | | WI | nite Pine | Trace | >20 feet | Sapling | |
| | | | | | | | | | | 1 3 | |
| | | | | | | Wi | ld Raisin | High | 5 - 10 feet | Tall Shrub | |
| 52 | 6112 - Low | /land Aspe | n S | Sapling | ı Well | 5.3 | ld Raisin 42 | High | 5 - 10 feet N/A | Tall Shrub | Harvested from '75-'81 under contract 63-75A (17-75A) w/several |
| 52 | 6112 - Low | /land Aspe | | | Well | 5.3 | | | | Tall Shrub | Harvested from '75-'81 under contract 63-75A (17-75A) w/several adjacent stands. "Cut all merch timber and cut all cedar that will yield one |
| 52 | Species | • | | | | 5.3 Sub-Ca | 42 | 1-50 | N/A | Tall Shrub | Harvested from '75-'81 under contract 63-75A (17-75A) w/several adjacent stands. "Cut all merch timber and cut all cedar that will yield one or more posts and/or pickets to a 2" top". Estimated cut acreage was |
| 52 Canopy | Species aple | % Cover | Size Class | DBH | | 5.3 Sub-Ca | 42 nopy Species | 1-50 Density | N/A Avg. Height | Tall Shrub | Harvested from '75-'81 under contract 63-75A (17-75A) w/several adjacent stands. "Cut all merch timber and cut all cedar that will yield one or more posts and/or pickets to a 2" top". Estimated cut acreage was 100ac. The stand looks like a cat. Walked through a southern portion. Species composition is similar to Stand 35, heavy to QA, some BAM/RM |
| 52 Canopy Red M | Species aple Poplar | % Cover | Size Class Sapling/Pole | DB H | | 5.3 Sub-Ca Ta | 42 nopy Species ag Alder | 1-50 Density High | N/A Avg. Height 10 - 20 feet | Tall Shrub Size Tall Shrub | Harvested from '75-'81 under contract 63-75A (17-75A) w/several adjacent stands. "Cut all merch timber and cut all cedar that will yield one or more posts and/or pickets to a 2" top". Estimated cut acreage was 100ac. The stand looks like a cat. Walked through a southern portion. Species composition is similar to Stand 35, heavy to QA, some BAM/RM and then scattered sap/pole conifer. Was obviously much lower/wetter |
| Canopy Red Ma | Species aple Poplar Ash | % Cover 10 10 | Size Class Sapling/Pole Sapling/Pole | DBH 3 4 | | 5.3 Sub-Ca Ta | 42 nopy Species ag Alder igan Holly | 1-50 Density High Medium | N/A Avg. Height 10 - 20 feet 5 - 10 feet | Tall Shrub Size Tall Shrub Tall Shrub | Harvested from '75-'81 under contract 63-75A (17-75A) w/several adjacent stands. "Cut all merch timber and cut all cedar that will yield one or more posts and/or pickets to a 2" top". Estimated cut acreage was 100ac. The stand looks like a cat. Walked through a southern portion. Species composition is similar to Stand 35, heavy to QA, some BAM/RM |
| Canopy Red Ma Balsam F | Species aple Poplar Ash Aspen | % Cover 10 10 15 | Size Class Sapling/Pole Sapling/Pole Sapling | DBH 3 4 2 | Age | 5.3 Sub-Ca Ta | 42 nopy Species ag Alder igan Holly | 1-50 Density High Medium | N/A Avg. Height 10 - 20 feet 5 - 10 feet | Tall Shrub Size Tall Shrub Tall Shrub | Harvested from '75-'81 under contract 63-75A (17-75A) w/several adjacent stands. "Cut all merch timber and cut all cedar that will yield one or more posts and/or pickets to a 2" top". Estimated cut acreage was 100ac. The stand looks like a cat. Walked through a southern portion. Species composition is similar to Stand 35, heavy to QA, some BAM/RM and then scattered sap/pole conifer. Was obviously much lower/wetter (than Std35) and likely holds seasonal water courses (along with year |
| Canopy Red Ma Balsam F Black A | Species laple Poplar Ash Aspen n Fir | % Cover 10 10 15 45 | Size Class Sapling/Pole Sapling/Pole Sapling Sapling/Pole | 3 4 2 4 | Age | 5.3 Sub-Ca Ta | 42 nopy Species ag Alder igan Holly | 1-50 Density High Medium | N/A Avg. Height 10 - 20 feet 5 - 10 feet | Tall Shrub Size Tall Shrub Tall Shrub | Harvested from '75-'81 under contract 63-75A (17-75A) w/several adjacent stands. "Cut all merch timber and cut all cedar that will yield one or more posts and/or pickets to a 2" top". Estimated cut acreage was 100ac. The stand looks like a cat. Walked through a southern portion. Species composition is similar to Stand 35, heavy to QA, some BAM/RM and then scattered sap/pole conifer. Was obviously much lower/wetter (than Std35) and likely holds seasonal water courses (along with year |
| Canopy Red Management Balsam F Black A Quaking Balsam | Species aple Poplar Ash Aspen n Fir | % Cover 10 10 15 45 | Size Class Sapling/Pole Sapling/Pole Sapling/Pole Sapling/Pole Sapling | 3 4 2 4 3 | Age | 5.3 Sub-Ca Ta | 42 nopy Species ag Alder igan Holly | 1-50 Density High Medium | N/A Avg. Height 10 - 20 feet 5 - 10 feet | Tall Shrub Size Tall Shrub Tall Shrub | Harvested from '75-'81 under contract 63-75A (17-75A) w/several adjacent stands. "Cut all merch timber and cut all cedar that will yield one or more posts and/or pickets to a 2" top". Estimated cut acreage was 100ac. The stand looks like a cat. Walked through a southern portion. Species composition is similar to Stand 35, heavy to QA, some BAM/RM and then scattered sap/pole conifer. Was obviously much lower/wetter (than Std35) and likely holds seasonal water courses (along with year |