



Baltimore Metropolitan Council
T: 410-732-9570 F: 410-732-9488
www.baltometro.org



Technical Appendix

PEOPLE—1990 and 2000 figures derived mostly from Census Summary Tape File 1, with the exception of 2000 figures for RPDs 601 through 607 (Howard County.) Other jurisdictions chose Census figures as base year 2000 Round 5D Cooperative Forecasts, but Howard County chose to use their own internally derived numbers. Those figures are represented here. Population subcategories for Howard County were subsequently scaled to Round 5D controls.

Total Population 1990—From Census Summary Tape File 1, Table P001.

White Population 1990—From Census Summary Tape File 1, Table P006. Includes Hispanic white population.

Black Population 1990—From Census Summary Tape File 1, Table P006. Includes Hispanic black population.

OtherNon-White Population 1990—From Census Summary Tape File 1, Table P006. Includes American Indian, Eskimo, or Aleut; Asian or Pacific Islander; and Other race.

Hispanic Population 1990—From Census Summary Tape File 1, Table P008.

Age Breakdowns 1990—From Census Summary Tape File 1, Table P011.

Median Age 1990—Derived from Census Summary Tape File 1, Table P011. Medians calculated by BMC staff by aggregating tract data into Regional Planning Districts.

Total Population 2000—From Census Summary Tape File 1, Table P001

White Population 2000—From Census Summary Tape File 1, Table P003. Population of one race, White alone. Does not include white population in combination with one or more other races. Includes Hispanic white population

Black Population 2000—From Census Summary Tape File 1, Table P003. Population of one race, Black or African American alone. Does not include black population in combination with one or more other races. Includes Hispanic black population.

OtherNon-White Population 2000—From Census Summary Tape File 1, Table P003. Includes American Indian and Alaska Native alone; Asian alone; Native Hawaiian and Other Pacific Islander alone; Some other race alone; and Population of two or more races.

Hispanic Population 2000—From Census Summary Tape File 1, Table P004. Hispanic or Latino population.

Age Breakdowns 2000—From Census Summary Tape File 1, Table P012.

Median Age 2000. Derived from Census Summary Tape File 3, Table P008. Medians calculated by BMC staff by aggregating tract data into Regional Planning Districts. Sample (SF3) data was used instead of 100% (SF1) data because of the narrower age brackets available in the sample data. This was believed to lead to a more precise median, given the uncertainties of age distribution over five year increments at geographies as small as Census Tracts.

HOUSEHOLDS—1990 and 2000 figures derived mostly from Census Summary Tape File 1, with the exception of 2000 figures for RPDs 601 through 607 (Howard County.) Other jurisdictions chose Census figures as base year 2000 Round 5D Cooperative Forecasts, but Howard County chose to use their own internally derived numbers. Those figures are represented here. Population subcategories for Howard County were subsequently scaled to Round 5D controls.

Total Households 1990—From Summary Tape File 1, Table P003.

1-Person Households 1990—From Summary Tape File 1, Table P016.

Married, no children 1990—From Summary Tape File 1, Table P016. Married couple families with no related children

- Married, with children 1990*—From Summary Tape File 1, Table P016. Married couple families with related children
- Other family households 1990*—From Summary Tape File 1, Table P016. Consists of male householder, no wife present, with or without children; and female householder, no husband present, with or without children; both with two or more people in household.
- Non-Family Households 1990*—From Summary Tape File 1, Table P016. Two or more unrelated persons in a household.
- Married Family Households 1990*—From Summary Tape File 1, Table P016. Sum of Married, with children and Married, without children.
- Single Mothers 1990*—From Summary Tape File 1, Table P016. A subset of Other family households—Female householder, no husband present, with own related children.
- Total Household Population 1990*—From Summary Tape File 1, Table P015. Sum of all categories except Group Quarters.
- Group Quarters Population 1990*—From Summary Tape File 1, Table P015.
- Persons per Household 1990*—Total Household Population divided by Total Households. Calculations made by BMC staff.
- Total Households 2000*—From Summary Tape File 1, Table P015.
- 1-Person Households 2000*—From Summary Tape File 1, Table P018.
- Married, no children 2000*—From Summary Tape File 1, Table P018. Married couple family with no own children under 18 years of age.
- Married, with children 2000*—From Summary Tape File 1, Table P018. Married couple family with own children under 18 years of age.
- Other family households 2000*—From Summary Tape File 1, Table P018. Consists of male householder, no wife present, with or without children; and female householder, no husband present, with or without children; both with two or more people in household.
- Non-Family Households 2000*—From Summary Tape File 1, Table P018. Two or more unrelated persons in a household.
- Married Family Households 2000*—From Summary Tape File 1, Table P018. Married couples with or without children.
- Single Mothers 2000*—From Summary Tape File 1, Table P018. A subset of Other family households—Female householder, no husband present, with own children under 18.
- Total Household Population 2000*—From Summary Tape File 1, Table P016.
- Group Quarters Population 2000*—From Summary Tape File 1, Table P037.
- Persons per Household 2000*—Total Household Population divided by Total Households. Calculations made by BMC staff.

HOUSING

- Total Housing Units 1990*—From Summary Tape File 1, Table H001.
- Owner-Occupied Units 1990*—From Summary Tape File 1, Table H003.
- Renter-Occupied Units 1990*—From Summary Tape File 1, Table H003.
- Vacant Units for Sale or Rent 1990*—From Summary Tape File 1, Table H005. Also includes units sold or rented but not occupied.
- Other Vacant Units 1990*—From Summary Tape File 1, Table H005. Includes units for seasonal, recreational, or occasional use; units for migrant workers; and other vacant units.
- Single-Family Detached Units 1990*—From Summary Tape File 3, Table H020.
- Single-Family Attached Units 1990*—From Summary Tape File 3, Table H020.
- Total Single-Family Units 1990*—From Summary Tape File 3, Table H020.
- Multi-Family Units 1990*—From Summary Tape File 3, Table H020. Two or more units in structure.
- Mobile Homes, Other Units 1990*—From Summary Tape File 3, Table H020. Mobile home or trailer; or Other.
- Median Housing Value 1990*—From Summary Tape File 3, Table H061. Calculations made by BMC staff by aggregating tract data to RPDs.

Median Gross Rent 1990—From Summary Tape File 3, Table H043. Calculations made by BMC staff by aggregating tract data to RPDs.

Total Housing Units 2000—From Summary Tape File 1, Table H001.

Owner-Occupied Units 2000—From Summary Tape File 1, Table H004.

Renter-Occupied Units 2000—From Summary Tape File 1, Table H004

Vacant Units for Sale or Rent 2000—From Summary Tape File 1, Table H005. Also includes units sold or rented but not occupied.

Other Vacant Units 2000—From Summary Tape File 1, Table H005. Includes units for seasonal, recreational, or occasional use; units for migrant workers; and other vacant units.

Single-Family Detached Units 2000—From Summary Tape File 3, Table H030.

Single-Family Attached Units 2000—From Summary Tape File 3, Table H030.

Total Single-Family Units 2000—From Summary Tape File 3, Table H030.

Multi-Family Units 2000—From Summary Tape File 3, Table H030. Two or more units in structure.

Mobile Homes, Other Units 2000—From Summary Tape File 3, Table H030. Mobile homes; Boats, RVs, vans, etc.

Median Housing Value 2000—From Summary Tape File 3, Table H084. Calculations made by BMC staff by aggregating tract data to RPDs.

Median Gross Rent 2000—From Summary Tape File 3, Table H062. Calculations made by BMC staff by aggregating tract data to RPDs.

LABOR FORCE

Total Labor Force 1990—From Summary Tape File 3, Table P070.

Total Employed 1990—From Summary Tape File 3, Table P070. Includes persons employed in armed forces.

Total Unemployed 1990—From Summary Tape File 3, Table P070.

Total in White-Collar Occupations 1990—From Summary Tape File 3, Table P078. Includes Managerial and professional specialty operations; and Technical, sales, and administrative support occupations.

Total in Blue-Collar Occupations 1990—From Summary Tape File 3, Table P078. Includes Precision production, craft, and repair operations; and Operators, fabricators, and laborers.

Total in Service Occupations 1990—From Summary Tape File 3, Table P078.

Total in Agricultural Occupations 1990—From Summary Tape File 3, Table P078. Includes Farming, forestry, and fishing operations.

Total Labor Force 2000—From Summary Tape File 3, Table P043.

Total Employed 2000—From Summary Tape File 3, Table P043. Includes persons employed in armed forces.

Total Unemployed 2000—From Summary Tape File 3, Table P043.

Total in White-Collar Occupations 2000—From Summary Tape File 3, Table P050. Includes Management, professional, and related occupations (minus Farmers and farm managers); and Sales and office occupations.

Total in Blue-Collar Occupations 2000—From Summary Tape File 3, Table P050. Includes Construction, extraction, and maintenance occupations; and Production, transportation, and material moving occupations.

Total in Service Occupations 2000—From Summary Tape File 3, Table P050.

Total in Agricultural Occupations 2000—From Summary Tape File 3, Table P050. Includes Farming, fishing, and forestry occupations; as well as Farmers and farm managers under the Managerial heading.

EMPLOYMENT (PLACE OF WORK) 2000

Total Employment—Total Employment is derived from BMC’s Cooperative Forecasts Round 6.

Manufacturing—Derived from BMC’s 2000 Master Establishment File (MEF), SIC single-digit codes 2 and 3. The ratio of manufacturing employment in MEF to total employment in MEF was used to scale manufacturing employment to Round 6 totals.

Transportation, Communications, Utilities— Derived from BMC’s 2000 Master Establishment File (MEF), SIC single-digit code 4. The ratio of transportation, communications, and utilities employment in MEF to total employment in MEF was used to scale transportation, communications, and utilities employment to Round 6 totals.

Wholesale/ Retail Trade-- Derived from BMC’s 2000 Master Establishment File (MEF), SIC single-digit code 5. The ratio of wholesale/ retail trade employment in MEF to total employment in MEF was used to scale wholesale/ retail trade employment to Round 6 totals.

F.I.R.E. (Finance, Insurance, and Real Estate)-- Derived from BMC’s 2000 Master Establishment File (MEF), SIC single-digit code 6. The ratio of F.I.R.E. employment in MEF to total employment in MEF was used to scale F.I.R.E. employment to Round 6 totals.

Services-- Derived from BMC’s 2000 Master Establishment File (MEF), SIC single-digit codes 7 and 8, except for public schools and public health and social services, which are included in the Government category. The ratio of service employment in MEF to total employment in MEF was used to scale service employment to Round 6 totals.

Government-- Derived from BMC’s 2000 Master Establishment File (MEF), SIC single-digit code 9, as well as public school employment and public health and social services, which are defined as SIC 8. The ratio of government employment in MEF to total employment in MEF was used to scale government employment to Round 6 totals. However, many Howard County government listings are conspicuously absent in the 2000 MEF. According to the *Howard County Employment Research Report* (September 2001), government and institutional employment accounted for 25,300 jobs in 2000. The MEF only contains 2197 jobs in Howard County in SIC 9. Howard County’s government and institutional category, however, contains employment from SIC 43, 80, 83, and 84, as well as from SIC single-digit 9. Summing these SICs in the MEF in Howard County accounts for 10,565 jobs. Multiplying the Round 6- to- MEF ratio for the County to this figure reveals that 14605 jobs from the MEF are represented by Howard County’s “institutional” employment. This leaves 10695 government jobs in the county. BMC staff then assumed an equal growth rate for each RPD from 1995 government totals in Howard County, and reduced each other SIC grouping proportionately to equal Round 6 totals for each RPD.

Other-- Derived from BMC’s 2000 Master Establishment File (MEF), SIC single-digit codes 0 and 1. The ratio of other employment in MEF to total employment in MEF was used to scale other employment to Round 6 totals.

MAJOR EMPLOYERS

Major employers are taken directly from BMC 2000 Master Establishment File (MEF.) Employers are listed in descending order of total number of on-site employees across all employment sectors.

EDUCATION

High School Graduates 1990—From Summary Tape File 3, Table P057. Includes High school graduates (including equivalency) and higher degrees.

College Graduates 1990—From Summary Tape File 3, Table P057. Includes Bachelor’s degree and higher. Does not include Associate’s degrees.

High School Graduates 2000—From Summary Tape File 3, Table P037. Includes High school graduates (including equivalency) and higher degrees.

College Graduates 2000—From Summary Tape File 3, Table P037. Includes Bachelor’s degree and higher. Does not include Associate’s degrees.

Percentage 2000 Total—Total refers to the total universe of persons age 25 and up.

INCOME

Median Household Income 1990—From Summary Tape File 3, Table P080. Medians calculated by BMC staff from tract data aggregated to RPD.

Median Family Income 1990—From Summary Tape File 3, Table P107. Medians calculated by BMC staff from tract data aggregated to RPD.

Median Household Income (1999 dollars) 1990—Using the Bureau of Labor Statistics' Consumer Price Index (CPI-U-RS) for 1999, the appropriate multiplier is 1.304. Calculations performed by BMC staff.

Median Family Income (1999 dollars) 1990—Using the Bureau of Labor Statistics' Consumer Price Index (CPI-U-RS) for 1999, the appropriate multiplier is 1.304. Calculations performed by BMC staff.

Median Household Income 2000—From Summary Tape File 3, Table P052. Medians calculated by BMC staff from tract data aggregated to RPD.

Median Family Income 2000—From Summary Tape File 3, Table P076. Medians calculated by BMC staff from tract data aggregated to RPD.

RECENT DEVELOPMENT—These figures are derived from BMC's Building Permit Data System. New residential and non-residential development is defined as development on a vacant or previously undeveloped parcel. Revelopment, therefore, is generally not captured by this distinction. Examples not captured by the following figures include: subdivisions of single-family residences into apartments, new construction on sites of previously razed structures, adaptive reuse of industrial and commercial facilities into residential units, etc.

Total Residential Units—Derived from BMC's Building Permit Data System (BPDS). Totals for each time period represent total number of permitted units for that period.

Single-Family Units—Derived from BPDS. Single-family units include single family detached units, semi-detached or duplex units, townhouses, mobile homes, and miscellaneous residential.

Multi-Family Units—Derived from BPDS. Multi-family units include garden apartments/ condominiums, mid-rise, and high-rise apartments and condominiums.

Value of New Residential—Derived from BPDS. Value of new residential equals the sum value of all permitted residential projects for that time period.

Value of New Non-Residential—Derived from BPDS. Value of new non-residential equals the sum value of all permitted non-residential projects for that time period.

MAJOR RECENTLY PERMITTED PROJECTS-- VALUED AT \$1 MILLION OR MORE

This section lists all residential and non-residential projects that meet this criterion, derived from BMC's Building Permit Data System (BPDS). Residential projects include both single-family and multi-family developments.

POPULATION DATA FOR CENSUS TRACTS (2000)

Total Pop—Total population from Census Summary Tape File 1, Table P001.

White Pop—White population from Census Summary Tape File 1, Table P003. Population of one race, White alone. Does not include white population in combination with one or more other races. Includes Hispanic white population.

Black Pop—Black population from Census Summary Tape File 1, Table P003. Population of one race, Black or African American alone. Does not include black population in combination with one or more other races. Includes Hispanic black population.

Other Pop—Other non-white population from Census Summary Tape File 1, Table P003. Includes American Indian and Alaska Native alone; Asian alone; Native Hawaiian and Other Pacific Islander alone; Some other race alone; and Population of two or more races.

Percent Under 18-- From Census Summary Tape File 1, Table P012. Calculations performed by BMC staff.

Percent 65+-- From Census Summary Tape File 1, Table P012. Calculations performed by BMC staff.

*Median Age—*From Census Summary Tape File 1, Table P013.

HOUSEHOLD DATA FOR CENSUS TRACTS (2000)

Total Households-- From Summary Tape File 1, Table P015.

*Pop in HHs—*Population in households from Summary Tape File 1, Table P016.

*Pop in Group Qtrs—*Population in group quarters from Summary Tape File 1, Table P037.

*Persons per HH—*Persons per household equals Total Household Population divided by Total Households. Calculations made by BMC staff.

*Pct Married w/ Children—*Percent of households consisting of married couples with children from Summary Tape File 1, Table P018-- Married couple family with own children under 18 years of age. This figure then divided into Total Households.

*Percent Female –hd—*Percent of households headed by a female (family households with two or more persons, no husband present, with or without own children) from Summary Tape File 1, Table P018.

*Percent Non-family—*Percent non-family households from Summary Tape File 1, Table P018.

HOUSING DATA FOR CENSUS TRACTS (2000)

*Total Hsg Units—*Total housing units from Summary Tape File 1, Table H001.

*Percent Owner-occ—*Percent of housing units owner-occupied derived from Summary Tape File 1, Table H004.

*Percent Renter-occ—*Percent of housing units renter-occupied derived from Summary Tape File 1, Table H004.

*Pct Vacant Sale/Rent—*Percent of housing units that are vacant and for sale or rent derived from Summary Tape File 1, Table H005. Also includes units sold or rented but not occupied.

*Pct Vacant Other—*Percent of housing units that are vacant and not for sale or rent derived from Summary Tape File 1, Table H005.

*Median Value—*Median value for all specified owner-occupied units from Summary Tape File 3, Table H076.

*Median Rent—*Median gross rent for all specified renter-occupied units from Summary Tape File 3, Table H063.

PROJECTIONS FOR TRANSPORTATION ANALYSIS ZONES

*Population—*Population projections from Round 6 Cooperative Forecasts.

*Households—*Household projections from Round 6 Cooperative Forecasts.

*Employment—*Employment projections from Round 6 Cooperative Forecasts.

*Labor Force—*Labor force projections derived from Round 6 Cooperative Forecasts.

*Median Income (\$1999)—*Median income in 1999 dollars derived from Round 6B Cooperative Forecasts. Round 6B forecasts are in 1979 dollars to ensure consistency across time periods. Therefore, the Bureau of Labor Statistics Consumer Price Index was used to convert 1979 dollars into 1999 dollars. The appropriate multiplier for this calculation is 2.2948.

*Pop Density (pop/sq.mi)—*Population density per square mile was determined by dividing total population for each time period by square mileage for each TAZ, excluding major bodies of water.