The Metropolitan Planning Organization

## Demographic and Socioeconomic Forecasting

Technical Memorandum
Task 1.2.3
Labor Force Model

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# DEMOGRAPHIC AND SOCIOECONOMIC FORECASTING 

## Technical Memorandum No. 1.2.3 <br> LABORFORCEMODEL

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## Technical Memorandum No. 1.2.3 Labor Force Model

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# Technical Memorandum No. 1.2.3 Labor Force Model 

### 1.1 INTRODUCTION

## Background

This memorandum describes the Labor Force Model developed as Task 1.2.3 of the Demographic and Socioeconomic Forecasting project. Work described here represents a recalibration and extension of work performed for Task 8.4 of the Transportation Models and Data Initiative (TMDI) project. The latter is a major effort undertaken by the New York Metropolitan Transportation Council (NYMTC) to forecast the transportation needs of the New York Metropolitan Region ${ }^{1}$ through the year 2020. (See Map 1.) The Labor Force Model described here is used to forecast labor force trends to the subregional level. Forecasts are made on a five-year interval basis for the period from 2000 to 2025.

At the outset it is important to conceptually distinguish labor force data from employment. The term "labor force" refers to workers on a resident basis, that is, residents of an area regardless of whether they also work in that area; it includes unemployed as well as employed workers. "Employment," in contrast, refers to jobs by location of workplace -- that is, the number of jobs in a given area regardless of whether the people who hold those jobs also live in that area. Labor force forecasts are driven by expected growth in population, rates of labor force participation, and employment levels. Employment forecasts, in contrast, are based on market-driven factors. These include, at the regional level, relative competitiveness in terms of the 'cost of doing business,' productivity advantages, and local market consumption; and, at the national level, demand for output, productivity, interest and exchange rates, and inflation. Employment forecasts were conducted in a separate model, which is described in Technical Memorandum 1.2.2. The labor force forecasts depend heavily on outputs of the Population Model, as adjusted for the demand for labor as forecasted by the Employment Model. The Labor Force Model utilizes the US Bureau of the Census Civilian Labor Force concept and decennial data as the basis of the historical and forecasted resident labor force by racial/ethnic group. Historical labor force data collected for this model are presented in Technical Memorandum 1.1.3, Labor Force Data Collection and Analysis, which also includes a further discussion of relevant labor force concepts.

Within the process of regional transportation modeling, labor force forecasts are useful for two primary reasons. First, the size and distribution of the labor force affect the

[^0]
## Map 1. Thirty-One County New York Metropolitan Region


number and pattern of journey-to-work trips, which account for a large proportion of all travel within the region, especially during peak hours. Labor force forecasts are thus necessary as a control in the process of journey-to-work forecasting. Second is the effect of labor force demand on population. Unlike at the national level, where employment levels tend to follow population growth, at the regional level employment leads population, with the number of jobs establishing the demand for labor, which in turn affects population and migration. A growing job base can be expected to attract workers to a region, and a declining job base will result in out-migration of local workers seeking employment elsewhere. By matching the expected labor force supply to anticipated levels of employment, it is possible to account for these effects on migration.

In any forecast period, the Labor Force Model therefore produces two sets of outputs: first, the initial labor force estimate and, second, the net in- or out-migration level induced by a match between labor force supply and demand for employees. Initial labor force estimates are generated, in any forecast year, based upon expected population from net natural increase and aging of the population, previous period rates of net migration, and forecasted rates of labor force participation. Induced net in- or outmigration is calculated by comparing this resulting labor force supply with the expected levels of employment as forecasted in the Employment Model. The Population Model described in Technical Memo 1.2.1, then, incorporates the change to initial net migration that results from this matching process, at each five-year interval. (See Figure 1 and Section 1.3 on methodology, below.)

All outputs of the Labor Force Model are generated by sex and age-group for the population 16 years of age and over. A separate model was run for each subregion; within each subregional model, sub-models generate outputs for each racial/ethnic group (non-Hispanic White, non-Hispanic Black, non-Hispanic Asian/Other, and Hispanic). ${ }^{2}$ Each model includes a historical section, covering the years 1970 through 2000, and a forecast section, covering the years 2001 through 2025. All outputs are generated on a five-year interval basis. In addition, the model is used to disaggregate historical Civilian Labor Force figures from the decennial Census by age, sex and racial/ethnic group. (See Appendices A and B.)

Reflecting the interactions, discussed above, between labor force supply, employment availability, and population, the Labor Force Model was developed in conjunction with other models. It depends on the Population Model (Task 1.2.1) for inputs of forecasted population by sex, race/ethnicity and age, and on the Employment Model (Task 1.2.2) for inputs of forecasted non-agricultural employment and proprietors. The Labor Force Model, in turn, controls the results of the Population Model. ${ }^{3}$ A separate forecasting routine disaggregates the subregional labor force forecasts to the county level.

[^1]Figure 1. Labor Force Model Flow Chart


The Labor Force Model is delivered to NYMTC in Microsoft Excel version 97 workbooks which combine the Labor Force and Population Models. These spreadsheet models will be utilized by NYMTC in periodic monitoring and reforecasting of labor force trends.

## Changes from NYMTC TMDI Task 8.4 Labor Force Model

The methodology used for the current task is basically the same as was used for TMDI Task 8.4. However, some modifications have been made. First, the model's Excel workbook has been streamlined to facilitate the updating of model inputs. Inputs have been broken into separate worksheets for ease of entry and validation. The Population and Labor Force Models, which formerly shared a single worksheet for each subregion and racial/ethnic group, also have been given separate worksheets. As before, model outputs are summarized on independent worksheets.

The base year for the forecasts has been extended from 1990 to 2000. Population controls for the year 2000 have been estimated outside the cohort model framework based on the latest (1998) Census Bureau estimates, as discussed in Technical Memorandum 1.2.1.

Employment figures used as inputs to the Labor Force Model are the latest currently available. Some figures used in TMDI Task 8.4 have been rebenchmarked and thus differ from those used in developing the TMDI forecasts. Employment data used as inputs for this model are presented and discussed in Technical Memorandum 1.1.2, Employment Data Collection and Analysis.

In the previous round of work, unemployment rates for future years were estimated as the average of historical rates, by racial/ethnic group, and were held constant throughout the forecast period. In the current model, unemployment rates are estimated based on county level unemployment rates for the labor force as a whole produced as part of the Employment Model. A weighted average was used to convert county rates to subregional rates, which were then indexed to 1990 racial/ethnic rates, as discussed below.

For the sake of consistency, tables in the current memorandum have been restricted to model inputs, such as labor force participation rates and historical levels of net commutation. TMDI Technical Memorandum 8.4 included some tables (such as futureyear net commutation and dual job holding rates) which are properly considered as model outputs. These include racial/ethnic estimates for some figures (such as net commutation and dual job holding) which depend on inputs from the Population Model. Comparable tables will appear in Technical Memorandum 1.3.3, which presents results of the Labor Force Model.

## Overview

The section below includes a discussion of the various inputs to the Labor Force Model. This is followed by a section describing the model itself and its outputs. Finally, there is
a description of the Task 1.2.3 work products. Labor force forecasting results and analysis will be presented by five-year interval in a separate memo under Task 1.3.3.

### 1.2 DATA INPUTS

This section enumerates the various model inputs, gives their sources, and, where relevant, discusses the methodology for estimating inputs for forecast years.

The subregional Labor Force Model incorporates a number of independent variables as inputs at each five-year interval:

- Population by racial/ethnic group, sex, and age-group.
- Labor Force Participation Rate by racial/ethnic group, sex, and age group.
- Unemployment Rate by racial/ethnic group.
- Net Commutation.
- Employment levels, combining non-agricultural employees and proprietors.
- Work-at-Home Employment.

For the historical section of the model, most of these data were gathered under Tasks 1.1.1, 1.1.2, and 1.1.3. Sources of these data are discussed in the Technical Memoranda for those tasks, which are referenced below as appropriate. Where additional data collection was necessary specifically for the present task, a full discussion of sources is included below. For the forecast section, some of the necessary inputs were derived from the outputs of other models; others are the official forecasts of government sources. Where necessary, estimates were made for some inputs based on historical data.

As mentioned above, the subregional models incorporate submodels for each racial/ethnic group. These sub-models are interdependent where necessary to aggregate racial/ethnic shares of overall employment, commutation, and work-at-home employment to subregional totals. For the sake of clarity, this aggregation process is described together with the discussion of each input, below.

## Population

The Labor Force Model depends on the Population Model for inputs, at each five-year interval, of population by sex and age cohort for all persons 16 years and older, by racial/ethnic group. The seven age cohorts are determined by their differences in labor force participation, as follows:

- Age 16-19: Teenage workers.
- Age 20-24: Recent high school and college graduates.
- Age 25-34: Young labor force.
- Age 35-44: Prime labor force.
- Age 45-54: Middle labor force.
- Age 55-64: Mature labor force.
- Age 65+: Retirement Ages.


## Historical Population

Population data were collected from the decennial Census for the years 1970, 1980 and 1990. These are discussed in Technical Memo 1.1.1, which describes population data collection and analysis

For the intercensal years 1975 and 1985, the Census Bureau has published population estimates, but without the detailed breakdowns by racial/ethnic group, sex, age, and geographic area required for the modeling process. Therefore, for these years, figures were interpolated from the preceding and following decennial Census years.

More detailed population estimates are available from the Census Bureau for the 1990s (though without the full necessary racial/ethnic breakdown), and formed the basis for the population figures incorporated into the Model for 1995 and 2000. The estimation methodology and data sources used are discussed in Technical Memorandum 1.2.1, Population Model.

## Forecasted Population

At the start of each five-year forecast period, the Population Model generates an 'open' population estimate by racial/ethnic group, sex and age. These estimates are equivalent in the model structure to a historical census count or intercensal estimates or interpolation. For each period, an initial 'closed' estimate of population is made on an age/sex-specific basis as the sum of open population, natural increase, and an initial estimate of net migration based on historical levels. The 'closed' estimate corresponds to the expected population change unmodified by the anticipated demand for labor. These 'closed' population figures are used as population inputs to the Labor Force Model in forecast years. (A discussion of the population forecasting methodology appears in Technical Memo 1.2.1, and the forecasted figures are included in Technical Memo 1.3.1. It should be noted that the Population Model depends, in turn, on outputs of the Labor Force Model, as discussed below in section 1.3 of this Memorandum.)

## Labor Force Participation Rates

The Labor Force Participation Rate is defined as the percentage of all residents of a particular population group who are in the Civilian Labor Force, as expressed in the equation:

$$
L F P R=\frac{C L F}{P O P}
$$

where LFPR equals Labor Force Participation Rate, CLF equals the Civilian Labor Force and POP equals the resident population. Civilian Labor Force includes both employed and unemployed workers, and excludes military personnel and all other residents who are not in the labor market. Labor Force Participation Rates for the historical section of
the model were calculated by age, sex, and racial/ethnic characteristics of the subregional population, based on data from the decennial Census ${ }^{4}$. Rates for the forecast section were benchmarked on national forecasts prepared by the US Bureau of Labor Statistics.

## Historical Rates

Historical racial/ethnic Labor Force Participation Rates are provided for the five subregions in 1970, 1980 and 1990 by age and sex. Rates for 1995 through 2025 were benchmarked on the differences between national and regional rates in 1990. (Rates for 1970 and 1980 did not influence the development of future rates.) Rates for 1990 are derived from the Census Bureau's Census/Equal Employment Opportunity (EEO) Special File CD-ROM. Since the 1980 Census EEO file did not provide the same extensive labor force participation data by racial/ethnic, age/sex and geographic detail as did the 1990 Census EEO file, and the model's need for such detail was less significant on a historical basis, both 1970 and 1980 rates were developed from decennial Census data published in the report Characteristics of the Population Chapter B, "General Population Characteristics." These Census sources provide county-level CLF and/or LFPR data, with limited age-, race- and sex-specific figures depending on the Census year. The historical Labor Force Participation Rates incorporated in the model disaggregate Census control totals where necessary to calculate age/sex specific rates by race/ethnicity. Different adjustments were necessary for each year because of differences in Census data reporting by age and race/ethnicity. These methodologies, however, all follow the same general pattern. First, county-level Census control totals were used to aggregate subregional-level CLF and population figures for each racial/ethnic group, disaggregated by sex and age. This can be expressed by the equations:

$$
\begin{aligned}
& C L F_{s i}=\sum C L F_{c i} \\
& P O P_{s i}=\sum P O P_{c i}
\end{aligned}
$$

where $s$ indicates subregion, $c$ indicates county and $i$ indicates age group. Second, CLF figures were divided by the corresponding population figures to derive group-specific LFPRs:

$$
L F P R_{s i}=\frac{C L F_{s i}}{P O P_{s i}}
$$

[^2]
## Data Limitations

The 1970 Census Characteristics of the Population includes age-specific, county-level LFPR data for three groups: the Total population, Negroes, and (depending on the state) one of two Hispanic subgroups: Persons of Puerto Rican Birth or Parentage for New York and New Jersey, and Persons of Spanish Language for Connecticut. Differences in racial/ethnic group definitions between 1970 Census data and those used for this study were accounted for as follows: 1) the Census's LFPR figures for Persons of Puerto Rican Birth or Parentage or Persons of Spanish Language were adopted, as appropriate for each state, for Hispanics as a whole, and used with the corresponding population figures to compute Hispanic LFPR; 2) the Census's Negro figures were adopted for non-Hispanic Blacks and used with the corresponding population figures to compute Black LFPR; 3) since the 1970 Census provides no age-specific labor force data for Whites or Asians, CLF figures for the combined White and Asian population were inferred by excluding the Census data for Blacks and Hispanics from the data for the Total population for each age group. These combined White/Asian figures were used with their corresponding population figures to compute White/Asian LFPR. (See Appendix C for an example of the 1970 methodology.)

In the 1980 Census, reporting of age- and race-specific labor force data is extremely limited at the county level. On the one hand, CLF data broken down by racial/ethnic group include only sex-specific totals with no age breakdown; on the other hand, agespecific CLF data are reported only in aggregate for the total CLF, and even there only at a coarse level. Given these limitations, the approach taken for this year was to use both the race-specific CLF totals and the age-specific figures for the entire Civilian Labor Force to control initial age/sex-specific CLF estimates for each racial/ethnic group. These initial estimates were made based on age/sex-specific Census population data and age/sex-specific LFPRs for major metropolitan areas or whole states in the New York Metropolitan Region. (See Appendix D for an example of the 1980 methodology.)

The 1990 Census/Equal Employment Opportunity (EEO) Special File CD-ROM includes detailed age- and sex-specific CLF figures aggregated by the racial/ethnic groups used in this study. Only minor adjustments were necessary to account for differences in agegroup reporting.

## Estimation of Post-1990 Rates

There is no source for detailed intercensal labor force estimates by racial/ethnic group, sex and age for small areas comparable to the Census Bureau's annual series of population estimates. Therefore it has been necessary to estimate post-1990 rates based on the 1990 decennial Census figures, in combination with national estimates and forecasts of Labor Force Participation Rates.

Labor Force Participation Rates were projected by indexing 1990 subregional rates on LFPR forecasts for the nation as a whole prepared by the Bureau of Labor Statistics'

Office of Employment, on a racial/ethnic basis by age and sex. ${ }^{5}$ (See Appendix E.) The BLS forecasts extend only to the year 2008, and thus cover only the early part of the Labor Force Model forecast period. They provide no trends for the later period when racial/ethnic restructuring of the labor force is expected to be particularly great, and when the New York Metropolitan Region is expected to significantly outpace the nation. For the TMDI it was found necessary to adjust rates for the later years based on a review of the model outputs and analyst's judgment regarding regional labor force trends. ${ }^{6}$ The increasing relative -- as well as absolute -- importance of minorities in the Region's labor force beyond 2005 was considered likely to encourage greater supply, just as the declining importance of earlier dominant sources of labor has correlated with reductions in their Labor Force Participation Rates. For the draft version of the labor force forecasting the decision was made to extend the BLS rates for 2008 to the end of the forecast period, leaving open the possibility of adjustments for the final draft based on review of the draft figures by NYMTC, its partners, and the consultant. These adjusted figures are presented in Table 1, which supersedes the corresponding table included in the draft version of the memorandum.

## Unemployment Rates

Unemployed persons are defined as those who are in the Civilian Labor Force but are not currently working; they are counted based on unemployment claims. Unemployment figures do not include certain groups of persons who are not employed for a variety of reasons and are not considered part of the labor force, such as the disabled or the longterm unemployed who have stopped seeking work. (See Technical Memorandum 1.1.3 for a discussion of historical unemployment rates and concepts.) Unemployment rate is defined as the percentage of unemployed persons in the Civilian Labor Force:

$$
U N E M P_{-} R A T E=\frac{U N E M P}{C L F}
$$

The Labor Force Model requires Unemployment Rate inputs at each interval for each racial/ethnic group as a whole; age- and sex-specific Unemployment Rates are not required. (See Table 2.)

[^3]
## Historical Section

Historical unemployment inputs are derived from a combination of US Census and state Department of Labor sources. The decennial Census provides county-level unemployment data by race and ethnicity for the years 1970, 1980 and 1990, although reporting is incomplete and reflects problems with racial/ethnic categorizations similar to those cited for Labor Force Participation Rates. State DOLs provide unemployment data for intercensal years, but not by racial/ethnic group. Technical Memorandum 1.1.3 contains a further discussion of these data sources.

## Census Years

For each of the Census years, subregional Unemployment Rates were derived from county-level data as the number of unemployed persons divided by the size of the CLF:

$$
U N E M P_{-} \text {RATE }_{s}=\frac{\sum U N E M P_{c}}{\sum C L F_{c}}
$$

where $c$ denotes county-level figures and $s$ denotes subregional-level figures.
Reporting by racial/ethnic group varied between the Census years, and was thus reconciled with the categories used in this study differently for each year. The 1970 Census includes county-level unemployment figures for the population as a whole as well as for the racial group Negroes, and (depending on the state) one of two ethnic Hispanic subgroups: Persons of Puerto Rican Birth or Parentage for New York and New Jersey, and Persons of Spanish Language for Connecticut. Because no unemployment data were reported specifically for White or Asian/Other groups, a combined White/Asian Unemployment Rate was derived based on the residual unemployed and Civilian Labor Force figures (after Negro and Hispanic figures were excluded from totals).

The 1980 Census reports county-level unemployment and Civilian Labor Force figures for each of five racial categories (White, Black, American Indian, Asian and Pacific Islander, and Other) as well as for Hispanics, which can include persons of any race. Census figures for Blacks and Hispanics were adopted directly for the corresponding categories non-Hispanic Black and Hispanics. Census figures for Asian and Pacific Islander, American Indian, and Other were combined and adopted for the category nonHispanic Asian/Other. Census figures for Whites were adopted for the category nonHispanic White after excluding double-counting in the Census due to the overlap of reporting for the Hispanic ethnic group and the various racial groups.

For 1990, unemployment figures aggregated by racial/ethnic group were adopted from the Census' Social and Economic Characteristics report, with minor adjustments to account for double-counting of Hispanics. Civilian Labor Force figures by mutually exclusive racial/ethnic group were adopted directly from the Census/Equal Opportunity (EEO) Special File CD-ROM disk.

## Rates for 1975, 1985 and 1995

As discussed above, the source used for unemployment rates on a racial/ethnic basis is the US decennial Census, available for 1970, 1980 and 1990. Estimates of total and unemployed civilian labor force are available from the state Departments of Labor (DOL) at the county level for all years through 1999, but not by racial/ethnic group (see Technical Memorandum 1.1.3, Table 8). Subregional unemployment rates were calculated from these data using the formula above. These total subregional figures were adjusted by racial/ethnic group on the assumption that the ratio of the groupspecific Unemployment Rate to that of the Civilian Labor Force as a whole would be the same as for the preceding Census year. This can be expressed as the formula:

$$
U N E M P_{-} R A T E_{i r}=U N E M P_{-} R A T E_{i t} \times \frac{U N E M P_{-} R A T E_{c r}}{U N E M P_{-} R A T E_{c t}}
$$

where $i$ refers to the intercensal year (1975, 1985 or 1995), $c$ refers to the preceding Census year, $r$ refers to a race-specific Unemployment Rate for the given year, and $t$ refers to the Unemployment Rate for the Civilian Labor Force as a whole.

## Unemployment Rates for Forecast Years

Unemployment rate estimates were prepared for the years 2000 through 2025 as part of the Employment Model (Task 1.2.2). These estimates are conceptually comparable to the state DOL figures used for intercensal years; however total and unemployed labor force figures were not developed as part of the Employment Model. It was therefore necessary to calculate subregional rates as the weighted average of the county rates, using the civilian labor force forecasts produced under TMDI Task 8.11 as weights for each year from 2000 through $2025 .{ }^{7}$

The 1990 decennial Census rates by racial/ethnic group were then indexed to the subregional rates to produce racial/ethnic Unemployment Rate estimates through the year 2025. Conceptually this is identical to the method described for intercensal years, above. Finally, racial/ethnic rates were readjusted so that the resulting total unemployment rates (based on the weighted average of the racial/ethnic rates) were reconciled to the employment model rates.

## Net Commutation

Net Commutation figures are input into the Labor Force Model at each five-year interval as part of the subregional labor force-employment match. They are calculated at the subregional level and are defined as the difference between the number of non-resident workers commuting into the subregion and the number of resident workers commuting out of the subregion. Net Commutation levels are positive for New York City and

[^4]negative for the other subregions, reflecting the continued importance of the Manhattan CBD as an employment center.

## Historical Section

For the Census years, historical Net Commutation levels for each subregion were developed with input from Census county-to-county Journey-to-Work flows, but will not always correspond to Census numbers because of several adjustments: Census flow data reflect travel patterns of respondents during a spring week (April 1) of the decennial year. (See Table 3.) The labor force model adjusts spring travel to reflect commutation between place of work and place of residence on an annual average basis. The 1990 Journey-to-Work flows were adopted as given for this reconciliation; the 1980 flow inputs reflect estimated adjustments to the Journey-to-Work data prepared by Regional Plan Association for the Metropolitan Transportation Authority in 1988. (A detailed discussion of these data sources is presented in TMDI Technical Memorandum 7.6.) Depending upon the commutershed taken to capture work trip flows, gross-in commutation will differ for any destination subregion. The 31 county catchment area was used for this purpose, as demonstrated for New York City with adjustments in 1980:

|  | Gross-In Commutation | Gross-Out Commutation | Net Commutation |
| :--- | :---: | :---: | :---: |
| 14 New Jersey Counties | 198,527 | 77,793 | -- |
| 7 Mid-Hudson Counties | 143,330 | 40,907 | -- |
| 2 Long Island Counties | 240,252 | 72,893 | -- |
| 3 Connecticut Counties | 23,765 | 4,978 | -- |
| Total | 605,874 | 196,571 | 409,303 |

Within the Labor Force Model it was necessary to disaggregate total figures for incorporation into each racial/ethnic sub-model. For the purpose of disaggregation it was assumed that Net Commutation levels are proportional to the racial/ethnic distribution of employed workers within the subregion, as described in the formula:

$$
\text { NETCOM }_{R}=\text { NETCOMTOTAL } \times \frac{E M P_{R}}{E M P_{T O T A L ~}}
$$

where NETCOM indicates subregional Net Commutation, EMP indicates subregional resident employed workers, $R$ indicates a given racial/ethnic group, and TOTAL indicates the total for all racial/ethnic groups. For the intercensal years, Net Commutation levels were estimated based on the preceding and following Census years.

## Forecast Section

Total Net Commutation levels were forecasted for each racial/ethnic group at every fiveyear interval and were assumed to reflect two factors: first, the number of employed workers in the group at the given time period; second, historical ratios of Net Commuters to employed workers. Because of the difficulties of forecasting Net Commutation ratios by racial/ethnic group, the average historical ratio between Net Commuters and employed workers in Census years, a constant, was used for each racial/ethnic group. This can be expressed as the equation:

$$
\text { NETCOM }_{i}=E M P L_{i} \times \frac{\left(\text { NETCOM }_{1970}+\text { NETCOM }_{1980}+\text { NETCOM }_{1990}\right)}{\left(E M P L_{1970}+E_{19} L_{1980}+E M P L_{1990}\right)}
$$

where $i$ is the forecast year. A deflation factor was applied for the year 1995 in order to account for the slump in New York City employment during this period.

## Employment

The employment inputs reflect the number of available jobs in a given subregion at each five-year interval, and combine the amount of non-agricultural payroll employment and the number of proprietors. Non-agricultural employment includes jobs in nine major industry sectors: Manufacturing; Mining; Construction; Transportation, Communications and Public Utilities; Wholesale Trade; Retail Trade; Finance, Insurance and Real Estate; Services; and Government. Proprietors includes self-employed persons, partners in non-limited partnerships, and non-farm proprietors. A further discussion of the definition of employment categories can be found in Technical Memo 1.1.2.

## Historical Section

The Labor Force Model incorporates employment figures for each five-year interval as reported in Technical Memo 1.1.2; the latter includes annual subregional totals for nonagricultural employment and proprietors based, respectively, on state Department of Labor (DOL) and federal Bureau of Economic Analysis (BEA) data. Within the Labor Force Model it was necessary to disaggregate these figures for inclusion in each racial/ethnic sub-model. For purposes of disaggregation it was assumed that the racial/ethnic distribution of employment is proportional to that of the supply of local commutation-adjusted workers within each subregion, which reflects their relative differences in unemployment. This figure is generated in the supply-side of the Labor Force model for each racial/ethnic group based on the size of the labor force, Unemployment Rates, and net-commutation levels. (See Section 1.3.)

## Forecast Section

For the forecast years, the Labor Force Model depends on the Employment Model for inputs of non-agricultural employment and proprietors. The Employment Model generates annual subregional totals for each of these groups. These totals are disaggregated by racial/ethnic group following the same methodology used for the
historical years, described above. Forecasts of the Employment Model are presented in Technical Memorandum 1.3.2.

## Work-at-Home Employment

Table 4 presents total Work-at-Home employment by subregion for the period 1970 through 2025. Levels of Work-at-Home employment were incorporated in the Labor Force Model since, for transportation modeling purposes, it is necessary to exclude workers who do not generate commuting trips.

## Historical Section

For the Census years, historical total Work-at-Home levels for each subregion were derived from Census county-to-county journey-to-work data. A detailed discussion of these data sources is presented in TMDI Technical Memorandum 7.6. Within the Labor Force Model it was necessary to disaggregate these total figures for inclusion in each racial/ethnic sub-model. For purposes of disaggregation it was assumed that Work-atHome levels were proportional to the racial/ethnic distribution of residents employed within the subregion. For the intercensal years, Net Commutation levels were estimated based on the preceding and following Census years.

## Forecast Section

Total work-at-home employment for the forecast years were estimated within the Labor Force Model by indexing the 1990 subregional totals to the forecasted number of proprietors by subregion. These figures were disaggregated by racial/ethnic group using the same methodology as for the historical period, described above.

## Dual Job Rate

To account for workers holding two or more jobs within the jobs-labor force matching process in the forecast years, the Labor Force Model applies a Dual Job Rate for each racial/ethnic group at every five-year interval. The Dual Job Rate for all forecast years is calculated based on the average for all historical periods. The latter are calculated in the reconciliation of historical labor force and employment series as the ratio of locallyemployed labor force to local trip-based employment.

### 1.3 METHODOLOGY

The methodology described below applies to the racial/ethnic sub-models incorporated into each subregional model. As mentioned above, each subregional model incorporates submodels for every racial/ethnic group. These sub-models are interdependent where necessary to aggregate racial/ethnic shares of overall
employment, Net Commutation, and Work-at-Home employment to subregional totals. For the sake of convenience, this aggregation process is described in the above section on Data Inputs. Thus, all figures discussed below are for individual racial/ethnic groups.

The methodology involves a three-step process. (See Figure 1.) First, an initial, unadjusted estimate is made of Civilian Labor Force, by age and sex, and in total. This corresponds to the supply of labor that would be available based on prior-period population, natural increase, and historical rates of net migration, not modified by the anticipated demand for labor. Second, this expected supply of laborers is matched against the expected demand for workers, input from the Employment Model, to determine if there is a surplus or deficit of workers. Any such surplus or deficit is assumed to induce a net in- or out-migration of an equal number of workers. Finally, this net migration figure is disaggregated by age/sex group and added to the initial CLF figures to yield an adjusted CLF for each group. The disaggregated net migration also becomes an input to the Population Model, where it is factored up to population by application of the LFPR and used to adjust net migration levels forecasted within that model. (See Figure 1.)

## Unadjusted Civilian Labor Force Forecast

Unadjusted Civilian Labor Force is calculated separately for each age/sex group, based on the forecasted 'closed' population and Labor Force Participation Rates for each time period. ${ }^{8}$ The CLF is simply the product of these two figures:

$$
C L F_{i}=P O P_{i} \times L F P R_{i}
$$

where $i$ represents the age/sex group. The total Civilian Labor Force is the sum of these age/sex-specific Civilian Labor Force figures:

$$
C L F=\sum C L F_{i}
$$

## Labor Force-Employment Match

In the labor force-employment match, the forecasted labor supply is compared with demand, with any difference forming the basis of an induced in or out-migration of workers. For purpose of this matching process, labor force supply is defined as Local Employment and demand is defined as Primary Jobs, which are calculated as follows.

## Labor Force Supply - Local Employment

Local Employment is defined as equal to the total Civilian Labor Force after unemployed workers have been excluded and net in- or out-commuters have been accounted for; that is:

[^5]$$
L O C A L E M P=C L F-U N E M P+N E T C O M
$$
where CLF is the total Civilian Labor Force carried from above, UNEMP is the total number of unemployed workers and NETCOM is the net number of commuters (a positive value if there is net in-commutation and a negative value if there is net outcommutation).

## Labor Force Demand - Primary Jobs

The number of Primary Jobs is calculated by first determining the level of Trip-Based Employment, which is equal to the sum of all non-agricultural employees and individual proprietors less the level of Work-at-Home employment (which does not generate regular commuting trips), as follows:

$$
\text { TRIPBASED }=(N O N A G+P R O P)-\text { WORKATHOME }
$$

The number of Primary Jobs is then calculated by excluding secondary jobs from the Trip-Based Employment; this is done by dividing Trip-Based Employment by the Dual Job Rate (i.e., the ratio of all jobs to Primary Jobs):

$$
P R I M J O B=T R I P B A S E D \div D U A L J O B
$$

The Dual Job Rate for forecast years is calculated in the Model's historical section. The rate for each historical interval is calculated as the ratio of Trip-Based Employment to Local Employment. The Dual Job Rate for forecast years is calculated as the average of rates for historical years on a racial/ethnic basis by subregion.

## Jobs-Labor Force Match

In the jobs-labor force match, a net in- or out-flow of workers is induced by comparing local employment with the forecasted number of primary jobs. The level of net migration is calculated by subtracting the former from the latter,

$$
N E T M I G=P R I M J O B-L O C A L \_E M P
$$

resulting in a positive figure if jobs exceed labor force (generating a net in-flow of workers) and a negative figure if there are insufficient jobs for local workers (generating a net out-flow of workers).

## Disaggregation of Induced Net Migration by Age and Sex

Age-group allocation of induced in- or out-migration is based upon the age-group distribution of the initial unadjusted labor force estimate for each racial/ethnic group. In the historical period there is no induced net migration calculation since this dynamic is
incorporated in the residual of population growth and natural increase by each agegroup. (See Technical Memorandum 1.2.1 for a more detailed discussion of net migration modeling.)

## Adjustment of Labor Force Net Migration to Population Net Migration

The migration of workers brings with it an additional migration of non-workers. Thus, the labor force net-migration figures, discussed above, must be adjusted for this additional migration before incorporation into the Population Model. Total net-migration is calculated based on age/sex-specific figures for net-migration of workers and LFPR, following the equation:

$$
\text { NETMIG }_{T_{i}}=\text { NETMIG }_{w_{i}} \div L F P R_{i}
$$

where $T$ denotes total net migration, $W$ denotes net-migration of workers, and $i$ denotes age/sex group. These age/sex-specific figures are incorporated as inputs into the Population Model.

Additional net in-migration of dependent children of adult workers was not included because of the lack of availability of historical data on which to base forecasts by race/ethnicity.

### 1.4 COUNTY-LEVEL DISAGGREGATION

Subregional totals are disaggregated to component counties using regression analysis procedures. Historical labor force estimates of the state DOLs are related to resident population estimates of the Census Bureau on an annual basis by county. SPSS, a software package of SPSS, Inc., provides statistical data analysis capability to fit linear, cubic and quadratic equations to the population-labor force relationship of each county. Using time as an independent variable, the best fitting form of equation is then used to predict future population-labor force ratios on a county-by-county basis.

Ratios are applied to the predicted level of resident population by county for the forecast period, to yield initial estimates of resident civilian labor force. Prevailing county-tosubregion differences in resident unemployment rates are continued over the forecast period and applied to the labor force forecasts for future estimates of employed residents. The component county estimates are then summed to subregional totals and normalized to equal the subregional controls. County-level forecasts are made for total and employed labor force only, with no race, age, or sex detail.

The resulting forecasts of civilian labor force and employed resident labor force are evaluated for reasonableness by county. Modifications are made to smooth trends in relation to state DOL time series and forecasts are reviewed by state and county agencies.

### 1.5 WORK PRODUCTS

The subregional Labor Force Models are delivered to NYMTC in Microsoft Excel '97 workbooks. Because of their numerous points of interaction, the Population and Labor Force Models are combined in a single workbook for each subregion. Within each workbook, racial/ethnic submodels are included on separate worksheets. The workbooks also include worksheets that summarize various model outputs. Since worksheets contain references to other worksheets within a given workbook, these sheets should be separated only with care to account for these references. Each subregional model is contained in a separate workbook.

The text of this memorandum is contained in a Microsoft Word 97 file. The tables and appendices presented in this report are also delivered in Microsoft Excel workbooks. Figures are delivered as Microsoft Word.

Summary and analysis of Labor Force Model results are included in Technical Memorandum 1.3.3.

Table 1. Labor Force Participation Rates by Age, Sex, Racial/Ethnic Group and Subregion: 1970 to 2025


Table 1. Labor Force Participation Rates by Age, Sex, Racial/Ethnic Group and Subregion: 1970 to 2025


Table 1. Labor Force Participation Rates by Age, Sex, Racial/Ethnic Group and Subregion: 1970 to 2025

|  | Asian/Other |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 40.1\% | 35.8\% | 31.5\% | 29.9\% | 28.3\% | 30.8\% | 28.4\% | 29.4\% | 29.4\% | 29.9\% | 31.1\% | 33.1\% |
| 20-24 | 70.0\% | 66.5\% | 63.0\% | 55.5\% | 48.0\% | 49.0\% | 45.0\% | 46.0\% | 46.0\% | 47.0\% | 48.8\% | 51.9\% |
| 25-34 | 91.9\% | 90.7\% | 89.4\% | 89.3\% | 89.2\% | 90.8\% | 91.8\% | 93.8\% | 93.8\% | 95.6\% | 98.5\% | 98.5\% |
| 35-44 | 93.7\% | 94.2\% | 94.6\% | 95.3\% | 96.1\% | 95.2\% | 96.7\% | 98.5\% | 98.5\% | 98.5\% | 98.5\% | 98.5\% |
| 45-54 | 89.7\% | 91.1\% | 92.4\% | 94.7\% | 97.0\% | 96.4\% | 98.5\% | 98.5\% | 98.5\% | 98.5\% | 98.5\% | 98.5\% |
| 55-64 | 89.7\% | 84.3\% | 78.9\% | 78.9\% | 78.9\% | 74.2\% | 78.8\% | 81.3\% | 81.3\% | 82.9\% | 86.1\% | 91.7\% |
| 65 \& Over | 25.4\% | 23.9\% | 22.4\% | 21.3\% | 20.2\% | 22.5\% | 24.2\% | 26.5\% | 26.5\% | 27.0\% | 28.0\% | 29.8\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 38.1\% | 34.2\% | 30.4\% | 32.5\% | 34.7\% | 38.6\% | 32.3\% | 32.8\% | 32.8\% | 33.5\% | 34.8\% | 37.0\% |
| 20-24 | 55.1\% | 52.7\% | 50.2\% | 54.3\% | 58.3\% | 56.2\% | 59.2\% | 61.6\% | 61.6\% | 62.8\% | 65.2\% | 69.5\% |
| 25-34 | 27.9\% | 41.5\% | 55.1\% | 59.1\% | 63.0\% | 62.0\% | 65.5\% | 68.6\% | 68.6\% | 70.0\% | 72.7\% | 77.4\% |
| 35-44 | 38.6\% | 49.6\% | 60.6\% | 65.7\% | 70.7\% | 72.0\% | 75.7\% | 79.2\% | 79.2\% | 80.7\% | 83.9\% | 89.3\% |
| 45-54 | 45.8\% | 53.3\% | 60.9\% | 67.8\% | 74.8\% | 73.6\% | 81.2\% | 85.6\% | 85.6\% | 87.3\% | 90.7\% | 96.6\% |
| 55-64 | 45.8\% | 42.7\% | 39.7\% | 42.6\% | 45.4\% | 49.5\% | 51.8\% | 55.8\% | 55.8\% | 56.9\% | 59.1\% | 62.9\% |
| 65 \& Over | 8.2\% | 8.5\% | 8.7\% | 8.9\% | 9.0\% | 7.4\% | 8.1\% | 8.2\% | 8.2\% | 8.4\% | 8.7\% | 9.3\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Hispanic |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 43.0\% | 40.2\% | 37.4\% | 42.5\% | 47.6\% | 42.7\% | 41.6\% | 42.3\% | 42.3\% | 43.2\% | 44.8\% | 47.7\% |
| 20-24 | 91.5\% | 84.6\% | 77.7\% | 78.7\% | 79.7\% | 76.7\% | 78.2\% | 79.7\% | 79.7\% | 81.3\% | 84.4\% | 89.9\% |
| 25-34 | 96.3\% | 94.8\% | 93.4\% | 91.2\% | 89.0\% | 87.8\% | 89.0\% | 90.7\% | 90.7\% | 92.5\% | 96.1\% | 98.5\% |
| 35-44 | 95.2\% | 94.9\% | 94.5\% | 93.3\% | 92.0\% | 90.5\% | 90.6\% | 92.3\% | 92.3\% | 94.1\% | 97.8\% | 98.5\% |
| 45-54 | 91.6\% | 92.1\% | 92.7\% | 90.6\% | 88.5\% | 87.0\% | 88.1\% | 89.8\% | 89.8\% | 91.6\% | 95.1\% | 98.5\% |
| 55-64 | 91.6\% | 86.2\% | 80.8\% | 79.3\% | 77.9\% | 73.3\% | 84.1\% | 86.7\% | 86.7\% | 88.4\% | 91.8\% | 97.8\% |
| 65 \& Over | 14.3\% | 19.4\% | 24.5\% | 24.6\% | 24.6\% | 27.8\% | 24.3\% | 24.8\% | 24.8\% | 25.2\% | 26.2\% | 27.9\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 36.2\% | 35.0\% | 33.8\% | 39.1\% | 44.4\% | 46.3\% | 48.5\% | 49.9\% | 49.9\% | 50.9\% | 52.9\% | 56.3\% |
| 20-24 | 58.7\% | 61.5\% | 64.4\% | 66.6\% | 68.8\% | 65.0\% | 72.8\% | 75.9\% | 75.9\% | 77.4\% | 80.3\% | 85.6\% |
| 25-34 | 32.9\% | 44.9\% | 56.8\% | 61.8\% | 66.8\% | 67.1\% | 71.2\% | 75.0\% | 75.0\% | 76.5\% | 79.4\% | 84.5\% |
| 35-44 | 47.9\% | 54.0\% | 60.1\% | 64.9\% | 69.7\% | 69.6\% | 72.7\% | 76.4\% | 76.4\% | 77.9\% | 80.9\% | 86.2\% |
| 45-54 | 48.8\% | 55.4\% | 62.0\% | 66.2\% | 70.4\% | 72.4\% | 78.9\% | 84.2\% | 84.2\% | 85.9\% | 89.2\% | 94.9\% |
| 55-64 | 48.8\% | 46.7\% | 44.7\% | 49.9\% | 55.1\% | 51.6\% | 59.3\% | 63.6\% | 63.6\% | 64.8\% | 67.3\% | 71.7\% |
| 65 \& Over | 11.0\% | 9.1\% | 7.1\% | 10.2\% | 13.3\% | 12.2\% | 11.4\% | 11.1\% | 11.1\% | 11.3\% | 11.8\% | 12.5\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mid-Hudso | Subregio |  |  |  |  |  |  |  |  |  |  |  |
|  | White |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 46.7\% | 46.2\% | 45.7\% | 45.9\% | 46.2\% | 46.4\% | 45.2\% | 45.1\% | 46.2\% | 47.4\% | 49.6\% | 49.6\% |
| 20-24 | 79.7\% | 78.3\% | 76.9\% | 75.2\% | 73.5\% | 73.2\% | 71.8\% | 71.8\% | 73.6\% | 75.4\% | 79.0\% | 79.0\% |
| 25-34 | 95.0\% | 94.0\% | 93.0\% | 93.4\% | 93.8\% | 92.7\% | 93.0\% | 93.1\% | 95.4\% | 97.8\% | 98.5\% | 98.5\% |
| 35-44 | 96.5\% | 95.8\% | 95.1\% | 94.6\% | 94.1\% | 92.3\% | 92.5\% | 92.4\% | 94.7\% | 97.0\% | 98.5\% | 98.5\% |
| 45-54 | 89.9\% | 91.3\% | 92.8\% | 93.6\% | 94.4\% | 92.9\% | 93.1\% | 93.1\% | 95.4\% | 97.7\% | 98.5\% | 98.5\% |
| 55-64 | 89.9\% | 84.4\% | 79.0\% | 77.6\% | 76.2\% | 74.9\% | 76.9\% | 77.5\% | 79.5\% | 81.4\% | 85.3\% | 85.3\% |
| 65 \& Over | 30.0\% | 26.9\% | 23.9\% | 24.2\% | 24.4\% | 24.7\% | 24.3\% | 25.1\% | 25.8\% | 26.4\% | 27.6\% | 27.6\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 38.7\% | 43.5\% | 48.3\% | 49.3\% | 50.2\% | 50.8\% | 51.0\% | 51.3\% | 52.5\% | 53.8\% | 56.4\% | 56.4\% |
| 20-24 | 59.3\% | 66.6\% | 73.9\% | 74.0\% | 74.1\% | 74.0\% | 75.6\% | 76.5\% | 78.4\% | 80.3\% | 84.1\% | 84.1\% |
| 25-34 | 36.9\% | 47.7\% | 58.6\% | 66.0\% | 73.5\% | 75.6\% | 77.0\% | 78.6\% | 80.5\% | 82.5\% | 86.4\% | 86.4\% |
| 35-44 | 46.0\% | 53.8\% | 61.7\% | 67.5\% | 73.4\% | 74.7\% | 74.6\% | 76.1\% | 78.1\% | 80.0\% | 83.8\% | 83.8\% |
| 45-54 | 50.5\% | 57.9\% | 65.3\% | 71.1\% | 76.9\% | 81.3\% | 83.6\% | 85.7\% | 87.9\% | 90.0\% | 94.3\% | 94.3\% |
| 55-64 | 50.5\% | 49.3\% | 48.0\% | 51.0\% | 54.0\% | 59.5\% | 63.8\% | 67.9\% | 69.6\% | 71.3\% | 74.7\% | 74.7\% |
| 65 \& Over | 11.7\% | 10.2\% | 8.7\% | 10.0\% | 11.3\% | 12.1\% | 11.7\% | 12.1\% | 12.4\% | 12.7\% | 13.3\% | 13.3\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 1. Labor Force Participation Rates by Age, Sex, Racial/Ethnic Group and Subregion: 1970 to 2025

|  | Black |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 28.0\% | 28.2\% | 28.4\% | 29.0\% | 29.6\% | 28.8\% | 28.3\% | 28.4\% | 29.1\% | 29.8\% | 31.2\% | 32.7\% |
| 20-24 | 61.3\% | 61.4\% | 61.6\% | 60.3\% | 59.0\% | 57.3\% | 55.2\% | 55.3\% | 56.7\% | 58.1\% | 60.8\% | 63.6\% |
| 25-34 | 75.7\% | 77.1\% | 78.4\% | 72.5\% | 66.5\% | 65.5\% | 65.2\% | 65.2\% | 66.9\% | 68.5\% | 71.7\% | 75.0\% |
| 35-44 | 83.3\% | 83.6\% | 83.9\% | 79.0\% | 74.1\% | 70.7\% | 71.5\% | 71.4\% | 73.2\% | 75.0\% | 78.5\% | 82.1\% |
| 45-54 | 77.9\% | 78.7\% | 79.6\% | 80.8\% | 82.0\% | 77.1\% | 78.3\% | 78.3\% | 80.2\% | 82.2\% | 86.1\% | 90.0\% |
| 55-64 | 77.9\% | 71.8\% | 65.6\% | 68.6\% | 71.6\% | 67.2\% | 71.2\% | 72.2\% | 74.0\% | 75.8\% | 79.4\% | 83.0\% |
| 65 \& Over | 31.0\% | 26.3\% | 21.6\% | 24.0\% | 26.3\% | 30.1\% | 29.3\% | 31.2\% | 31.9\% | 32.7\% | 34.3\% | 35.8\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 31.0\% | 28.8\% | 26.6\% | 33.4\% | 40.2\% | 43.4\% | 47.1\% | 48.3\% | 49.5\% | 50.7\% | 53.1\% | 55.5\% |
| 20-24 | 58.9\% | 57.9\% | 56.9\% | 59.7\% | 62.4\% | 63.8\% | 70.2\% | 71.6\% | 73.4\% | 75.2\% | 78.8\% | 82.4\% |
| 25-34 | 61.3\% | 70.4\% | 79.6\% | 77.8\% | 76.0\% | 77.6\% | 84.5\% | 86.0\% | 88.1\% | 90.3\% | 94.6\% | 98.5\% |
| 35-44 | 66.4\% | 73.6\% | 80.9\% | 81.4\% | 81.9\% | 81.5\% | 84.9\% | 86.5\% | 88.7\% | 90.9\% | 95.2\% | 98.5\% |
| 45-54 | 63.1\% | 70.0\% | 76.9\% | 81.0\% | 85.2\% | 85.0\% | 90.3\% | 92.9\% | 95.2\% | 97.6\% | 98.5\% | 98.5\% |
| 55-64 | 63.1\% | 59.5\% | 55.9\% | 60.4\% | 64.9\% | 70.9\% | 74.7\% | 79.6\% | 81.6\% | 83.6\% | 87.6\% | 91.6\% |
| 65 \& Over | 21.2\% | 20.3\% | 19.4\% | 18.1\% | 16.8\% | 13.1\% | 13.1\% | 12.6\% | 12.9\% | 13.2\% | 13.8\% | 14.4\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Asian/Other |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 46.7\% | 41.6\% | 36.4\% | 30.9\% | 25.3\% | 27.5\% | 25.4\% | 25.7\% | 26.3\% | 27.0\% | 28.3\% | 29.6\% |
| 20-24 | 79.7\% | 74.0\% | 68.2\% | 65.7\% | 63.1\% | 64.4\% | 59.2\% | 59.3\% | 60.8\% | 62.3\% | 65.3\% | 68.2\% |
| 25-34 | 95.0\% | 92.2\% | 89.5\% | 92.8\% | 96.2\% | 97.9\% | 99.0\% | 98.5\% | 98.5\% | 98.5\% | 98.5\% | 98.5\% |
| 35-44 | 96.5\% | 95.6\% | 94.7\% | 96.1\% | 97.5\% | 96.6\% | 98.1\% | 98.2\% | 98.5\% | 98.5\% | 98.5\% | 98.5\% |
| 45-54 | 89.9\% | 91.2\% | 92.5\% | 95.2\% | 97.9\% | 97.3\% | 99.5\% | 98.5\% | 98.5\% | 98.5\% | 98.5\% | 98.5\% |
| 55-64 | 89.9\% | 88.7\% | 87.5\% | 81.0\% | 74.6\% | 70.2\% | 74.5\% | 75.3\% | 77.2\% | 79.1\% | 82.9\% | 86.6\% |
| 65 \& Over | 30.0\% | 27.9\% | 25.9\% | 22.6\% | 19.3\% | 21.5\% | 23.1\% | 24.8\% | 25.4\% | 26.0\% | 27.3\% | 28.5\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 38.7\% | 35.1\% | 31.6\% | 31.2\% | 30.9\% | 34.4\% | 28.7\% | 28.7\% | 29.4\% | 30.1\% | 31.5\% | 33.0\% |
| 20-24 | 59.3\% | 53.9\% | 48.4\% | 54.2\% | 60.0\% | 57.8\% | 60.9\% | 62.1\% | 63.7\% | 65.2\% | 68.3\% | 71.4\% |
| 25-34 | 36.9\% | 47.9\% | 58.8\% | 57.3\% | 55.7\% | 54.9\% | 57.9\% | 59.5\% | 61.0\% | 62.5\% | 65.5\% | 68.4\% |
| 35-44 | 46.0\% | 55.3\% | 64.7\% | 68.5\% | 72.4\% | 73.7\% | 77.5\% | 79.5\% | 81.5\% | 83.4\% | 87.4\% | 91.4\% |
| 45-54 | 50.5\% | 57.7\% | 64.9\% | 68.0\% | 71.0\% | 69.9\% | 77.0\% | 79.7\% | 81.7\% | 83.7\% | 87.6\% | 91.6\% |
| 55-64 | 50.5\% | 46.0\% | 41.5\% | 41.8\% | 42.1\% | 45.8\% | 48.0\% | 50.7\% | 51.9\% | 53.2\% | 55.7\% | 58.3\% |
| 65 \& Over | 11.7\% | 11.1\% | 10.4\% | 10.6\% | 10.8\% | 8.9\% | 9.7\% | 9.7\% | 10.0\% | 10.2\% | 10.7\% | 11.2\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Hispanic |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 5.8\% | 20.0\% | 34.1\% | 42.4\% | 50.6\% | 45.4\% | 44.2\% | 44.1\% | 45.2\% | 46.3\% | 48.5\% | 55.1\% |
| 20-24 | 27.3\% | 46.9\% | 66.5\% | 67.8\% | 69.1\% | 66.5\% | 67.8\% | 67.8\% | 69.5\% | 71.2\% | 74.6\% | 84.7\% |
| 25-34 | 77.1\% | 79.8\% | 82.5\% | 79.3\% | 76.2\% | 75.2\% | 76.2\% | 76.2\% | 78.1\% | 80.0\% | 83.8\% | 95.3\% |
| 35-44 | 79.1\% | 81.3\% | 83.5\% | 81.7\% | 80.0\% | 78.7\% | 78.8\% | 78.7\% | 80.7\% | 82.6\% | 86.6\% | 98.4\% |
| 45-54 | 75.1\% | 78.4\% | 81.8\% | 83.3\% | 84.7\% | 83.2\% | 84.3\% | 84.3\% | 86.4\% | 88.5\% | 92.7\% | 98.5\% |
| 55-64 | 75.1\% | 73.0\% | 70.9\% | 71.0\% | 71.2\% | 67.0\% | 76.9\% | 77.8\% | 79.7\% | 81.6\% | 85.5\% | 97.2\% |
| 65 \& Over | 0.0\% | 11.2\% | 22.4\% | 20.6\% | 18.9\% | 21.3\% | 18.6\% | 18.6\% | 19.1\% | 19.6\% | 20.5\% | 23.3\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 13.5\% | 24.6\% | 35.7\% | 38.5\% | 41.4\% | 43.2\% | 45.3\% | 45.7\% | 46.8\% | 48.0\% | 50.2\% | 57.1\% |
| 20-24 | 6.4\% | 34.7\% | 63.0\% | 63.6\% | 64.1\% | 60.5\% | 67.8\% | 69.3\% | 71.0\% | 72.8\% | 76.2\% | 86.6\% |
| 25-34 | 32.2\% | 46.9\% | 61.6\% | 64.5\% | 67.3\% | 67.6\% | 71.8\% | 74.1\% | 76.0\% | 77.8\% | 81.5\% | 92.6\% |
| 35-44 | 42.6\% | 53.9\% | 65.2\% | 67.4\% | 69.6\% | 69.5\% | 72.6\% | 74.8\% | 76.6\% | 78.5\% | 82.2\% | 93.5\% |
| 45-54 | 35.1\% | 51.2\% | 67.2\% | 67.0\% | 66.9\% | 68.8\% | 75.0\% | 78.5\% | 80.5\% | 82.4\% | 86.4\% | 98.1\% |
| 55-64 | 35.1\% | 41.3\% | 47.4\% | 50.5\% | 53.6\% | 50.2\% | 57.7\% | 60.6\% | 62.1\% | 63.7\% | 66.7\% | 75.8\% |
| 65 \& Over | 0.0\% | 4.3\% | 8.6\% | 9.2\% | 9.8\% | 9.0\% | 8.4\% | 8.0\% | 8.2\% | 8.4\% | 8.8\% | 10.0\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 1. Labor Force Participation Rates by Age, Sex, Racial/Ethnic Group and Subregion: 1970 to 2025

| New Jersey Subregion |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | White |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1970 | 1975 |  | 1985 | 1990 | 1995 |  | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 47.1\% | 48.2\% | 49.2\% | 49.7\% | 50.3\% | 50.4\% | 49.2\% | 50.3\% | 50.8\% | 52.3\% | 55.2\% | 56.4\% |
| 20-24 | 79.1\% | 80.8\% | 82.5\% | 81.2\% | 80.0\% | 79.7\% | 78.2\% | 80.1\% | 80.9\% | 83.2\% | 87.9\% | 89.9\% |
| 25-34 | 96.6\% | 95.5\% | 94.3\% | 95.0\% | 95.7\% | 94.6\% | 94.9\% | 97.3\% | 98.3\% | 99.5\% | 99.5\% | 99.5\% |
| 35-44 | 97.5\% | 97.0\% | 96.5\% | 96.1\% | 95.7\% | 93.9\% | 94.1\% | 96.4\% | 97.3\% | 99.5\% | 99.5\% | 99.5\% |
| 45-54 | 92.3\% | 93.2\% | 94.1\% | 94.9\% | 95.7\% | 94.1\% | 94.3\% | 96.7\% | 97.6\% | 99.5\% | 99.5\% | 99.5\% |
| 55-64 | 92.0\% | 86.1\% | 80.3\% | 78.8\% | 77.3\% | 75.9\% | 77.9\% | 80.6\% | 81.4\% | 83.7\% | 88.4\% | 90.4\% |
| 65 \& Over | 27.8\% | 24.9\% | 22.1\% | 21.9\% | 21.7\% | 21.9\% | 21.5\% | 22.9\% | 23.1\% | 23.8\% | 25.1\% | 25.7\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 43.5\% | 47.0\% | 50.5\% | 52.2\% | 53.8\% | 54.5\% | 54.7\% | 56.3\% | 56.9\% | 58.5\% | 61.8\% | 63.2\% |
| 20-24 | 61.8\% | 69.8\% | 77.9\% | 78.5\% | 79.2\% | 79.1\% | 80.8\% | 83.7\% | 84.6\% | 87.0\% | 91.9\% | 94.0\% |
| 25-34 | 39.4\% | 49.2\% | 59.0\% | 67.7\% | 76.3\% | 78.5\% | 79.9\% | 83.6\% | 84.4\% | 86.9\% | 91.8\% | 93.8\% |
| 35-44 | 48.1\% | 55.1\% | 62.2\% | 68.6\% | 75.1\% | 76.4\% | 76.3\% | 79.8\% | 80.6\% | 82.9\% | 87.6\% | 89.6\% |
| 45-54 | 51.4\% | 58.6\% | 65.9\% | 71.6\% | 77.3\% | 81.7\% | 84.0\% | 88.3\% | 89.2\% | 91.8\% | 96.9\% | 99.1\% |
| 55-64 | 51.2\% | 49.4\% | 47.5\% | 50.8\% | 54.0\% | 59.6\% | 63.8\% | 69.6\% | 70.3\% | 72.3\% | 76.4\% | 78.1\% |
| 65 \& Over | 10.0\% | 9.0\% | 8.0\% | 9.1\% | 10.2\% | 11.0\% | 10.6\% | 11.2\% | 11.3\% | 11.7\% | 12.3\% | 12.6\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Black |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 36.3\% | 34.4\% | 32.4\% | 35.7\% | 39.0\% | 38.0\% | 37.3\% | 38.3\% | 38.7\% | 39.8\% | 42.1\% | 43.0\% |
| 20-24 | 88.6\% | 79.2\% | 69.9\% | 69.6\% | 69.4\% | 67.4\% | 65.0\% | 66.7\% | 67.3\% | 69.3\% | 73.2\% | 74.8\% |
| 25-34 | 88.5\% | 86.4\% | 84.3\% | 81.8\% | 79.4\% | 78.2\% | 77.9\% | 79.8\% | 80.6\% | 82.9\% | 87.6\% | 89.5\% |
| 35-44 | 90.1\% | 90.1\% | 90.2\% | 86.7\% | 83.2\% | 79.4\% | 80.3\% | 82.2\% | 83.0\% | 85.4\% | 90.2\% | 92.2\% |
| 45-54 | 84.2\% | 84.9\% | 85.5\% | 86.1\% | 86.7\% | 81.5\% | 82.7\% | 84.8\% | 85.6\% | 88.1\% | 93.1\% | 95.1\% |
| 55-64 | 84.2\% | 77.4\% | 70.6\% | 70.4\% | 70.1\% | 65.8\% | 69.8\% | 72.5\% | 73.2\% | 75.3\% | 79.6\% | 81.3\% |
| 65 \& Over | 30.1\% | 25.6\% | 21.1\% | 22.0\% | 22.8\% | 26.1\% | 25.4\% | 27.7\% | 28.0\% | 28.8\% | 30.4\% | 31.1\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 31.7\% | 28.7\% | 25.6\% | 34.9\% | 44.2\% | 47.7\% | 51.8\% | 54.5\% | 55.0\% | 56.6\% | 59.8\% | 61.1\% |
| 20-24 | 58.3\% | 56.8\% | 55.2\% | 61.9\% | 68.7\% | 70.2\% | 77.3\% | 80.8\% | 81.6\% | 83.9\% | 88.7\% | 90.6\% |
| 25-34 | 56.8\% | 65.3\% | 73.8\% | 75.7\% | 77.7\% | 79.3\% | 86.4\% | 90.1\% | 90.9\% | 93.6\% | 98.9\% | 99.5\% |
| 35-44 | 62.2\% | 68.6\% | 75.0\% | 77.7\% | 80.4\% | 80.0\% | 83.3\% | 87.1\% | 88.0\% | 90.5\% | 95.6\% | 97.7\% |
| 45-54 | 58.3\% | 64.8\% | 71.3\% | 77.7\% | 84.0\% | 83.8\% | 89.0\% | 93.9\% | 94.9\% | 97.6\% | 99.5\% | 99.5\% |
| 55-64 | 58.3\% | 54.6\% | 51.0\% | 55.2\% | 59.5\% | 65.0\% | 68.5\% | 74.8\% | 75.6\% | 77.8\% | 82.1\% | 84.0\% |
| 65 \& Over | 19.2\% | 17.8\% | 16.5\% | 15.8\% | 15.1\% | 11.8\% | 11.8\% | 11.6\% | 11.7\% | 12.1\% | 12.7\% | 13.0\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Asian/Oth |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 47.0\% | 43.2\% | 39.4\% | 34.2\% | 29.0\% | 31.5\% | 29.1\% | 30.2\% | 30.5\% | 31.4\% | 33.2\% | 33.9\% |
| 20-24 | 79.1\% | 76.2\% | 73.3\% | 68.0\% | 62.7\% | 64.0\% | 58.8\% | 60.5\% | 61.0\% | 62.8\% | 66.4\% | 67.8\% |
| 25-34 | 96.6\% | 93.8\% | 91.1\% | 92.3\% | 93.5\% | 95.1\% | 96.2\% | 98.7\% | 99.5\% | 99.5\% | 99.5\% | 99.5\% |
| 35-44 | 97.5\% | 97.0\% | 96.4\% | 96.6\% | 96.8\% | 95.9\% | 97.4\% | 99.5\% | 99.5\% | 99.5\% | 99.5\% | 99.5\% |
| 45-54 | 92.3\% | 93.2\% | 94.1\% | 95.8\% | 97.5\% | 96.9\% | 99.1\% | 99.5\% | 99.5\% | 99.5\% | 99.5\% | 99.5\% |
| 55-64 | 92.0\% | 90.6\% | 89.2\% | 81.7\% | 74.2\% | 69.8\% | 74.1\% | 76.8\% | 77.6\% | 79.8\% | 84.3\% | 86.2\% |
| 65 \& Over | 27.8\% | 25.9\% | 24.0\% | 22.6\% | 21.3\% | 23.7\% | 25.5\% | 28.1\% | 28.3\% | 29.1\% | 30.8\% | 31.5\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 43.5\% | 39.3\% | 35.2\% | 34.2\% | 33.3\% | 37.0\% | 31.0\% | 31.6\% | 31.9\% | 32.9\% | 34.7\% | 35.5\% |
| 20-24 | 61.8\% | 58.1\% | 54.3\% | 58.0\% | 61.6\% | 59.3\% | 62.5\% | 65.4\% | 66.0\% | 67.9\% | 71.8\% | 73.4\% |
| 25-34 | 39.4\% | 51.3\% | 63.2\% | 64.5\% | 65.9\% | 64.9\% | 68.4\% | 72.1\% | 72.8\% | 74.9\% | 79.1\% | 80.9\% |
| 35-44 | 48.1\% | 58.8\% | 69.4\% | 73.4\% | 77.3\% | 78.6\% | 82.7\% | 87.0\% | 87.8\% | 90.3\% | 95.4\% | 97.6\% |
| 45-54 | 51.4\% | 60.5\% | 69.7\% | 75.3\% | 80.9\% | 79.7\% | 87.8\% | 93.1\% | 94.0\% | 96.7\% | 99.5\% | 99.5\% |
| 55-64 | 51.2\% | 47.5\% | 43.7\% | 41.6\% | 39.6\% | 43.1\% | 45.1\% | 48.8\% | 49.3\% | 50.7\% | 53.6\% | 54.8\% |
| 65 \& Over | 10.0\% | 10.1\% | 10.3\% | 10.9\% | 11.5\% | 9.4\% | 10.4\% | 10.6\% | 10.7\% | 11.0\% | 11.6\% | 11.9\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 1. Labor Force Participation Rates by Age, Sex, Racial/Ethnic Group and Subregion: 1970 to 2025

|  | Hispanic |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 49.7\% | 45.3\% | 40.9\% | 44.7\% | 48.5\% | 43.5\% | 42.4\% | 43.3\% | 43.8\% | 45.0\% | 47.6\% | 48.6\% |
| 20-24 | 84.7\% | 81.9\% | 79.1\% | 79.0\% | 78.8\% | 75.8\% | 77.3\% | 79.3\% | 80.0\% | 82.3\% | 87.0\% | 88.9\% |
| 25-34 | 91.5\% | 92.2\% | 93.0\% | 91.1\% | 89.3\% | 88.2\% | 89.3\% | 91.6\% | 92.5\% | 95.1\% | 99.5\% | 99.5\% |
| 35-44 | 92.7\% | 93.4\% | 94.1\% | 92.3\% | 90.5\% | 89.0\% | 89.1\% | 91.3\% | 92.2\% | 94.8\% | 99.5\% | 99.5\% |
| 45-54 | 84.5\% | 88.4\% | 92.2\% | 92.0\% | 91.8\% | 90.2\% | 91.4\% | 93.7\% | 94.6\% | 97.3\% | 99.5\% | 99.5\% |
| 55-64 | 84.9\% | 82.4\% | 80.0\% | 79.5\% | 79.0\% | 74.4\% | 85.3\% | 88.4\% | 89.3\% | 91.9\% | 97.1\% | 99.2\% |
| 65 \& Over | 24.6\% | 23.7\% | 22.9\% | 23.6\% | 24.3\% | 27.4\% | 23.9\% | 24.5\% | 24.8\% | 25.5\% | 26.9\% | 27.5\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 32.6\% | 33.8\% | 35.1\% | 40.3\% | 45.5\% | 47.5\% | 49.8\% | 51.5\% | 52.0\% | 53.5\% | 56.5\% | 57.8\% |
| 20-24 | 43.5\% | 52.9\% | 62.3\% | 64.2\% | 66.0\% | 62.4\% | 69.8\% | 73.2\% | 73.9\% | 76.0\% | 80.3\% | 82.1\% |
| 25-34 | 32.2\% | 45.2\% | 58.3\% | 64.3\% | 70.2\% | 70.6\% | 74.9\% | 79.3\% | 80.0\% | 82.4\% | 87.0\% | 88.9\% |
| 35-44 | 45.9\% | 53.8\% | 61.7\% | 66.7\% | 71.7\% | 71.6\% | 74.7\% | 78.9\% | 79.7\% | 82.0\% | 86.6\% | 88.6\% |
| 45-54 | 38.5\% | 51.0\% | 63.6\% | 67.7\% | 71.9\% | 74.0\% | 80.6\% | 86.5\% | 87.3\% | 89.9\% | 94.9\% | 97.0\% |
| 55-64 | 36.2\% | 40.1\% | 44.1\% | 48.2\% | 52.3\% | 49.0\% | 56.3\% | 60.7\% | 61.2\% | 63.0\% | 66.6\% | 68.0\% |
| 65 \& Over | 9.3\% | 8.4\% | 7.5\% | 8.8\% | 10.2\% | 9.3\% | 8.8\% | 8.5\% | 8.6\% | 8.9\% | 9.4\% | 9.6\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Connecticut Subregion |  |  |  |  |  |  |  |  |  |  |  |  |
|  | White |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 49.6\% | 52.4\% | 55.2\% | 54.8\% | 54.5\% | 54.7\% | 53.3\% | 53.2\% | 53.2\% | 53.2\% | 53.2\% | 53.2\% |
| 20-24 | 76.5\% | 79.9\% | 83.4\% | 82.2\% | 81.0\% | 80.7\% | 79.1\% | 79.1\% | 79.1\% | 79.1\% | 79.1\% | 79.1\% |
| 25-34 | 95.1\% | 95.0\% | 94.8\% | 95.6\% | 96.4\% | 95.3\% | 95.6\% | 95.7\% | 95.7\% | 95.7\% | 95.7\% | 95.7\% |
| 35-44 | 96.9\% | 96.9\% | 96.9\% | 96.6\% | 96.3\% | 94.4\% | 94.6\% | 94.5\% | 94.5\% | 94.5\% | 94.5\% | 94.5\% |
| 45-54 | 92.7\% | 93.6\% | 94.6\% | 95.3\% | 96.1\% | 94.5\% | 94.7\% | 94.7\% | 94.7\% | 94.7\% | 94.7\% | 94.7\% |
| 55-64 | 92.6\% | 87.4\% | 82.2\% | 79.9\% | 77.6\% | 76.2\% | 78.3\% | 78.9\% | 78.9\% | 78.9\% | 78.9\% | 78.9\% |
| 65 \& Over | 28.9\% | 26.1\% | 23.4\% | 23.4\% | 23.5\% | 23.7\% | 23.3\% | 24.2\% | 24.2\% | 24.2\% | 24.2\% | 24.2\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 43.4\% | 49.2\% | 55.0\% | 56.9\% | 58.9\% | 59.6\% | 59.8\% | 60.1\% | 60.1\% | 60.1\% | 60.1\% | 60.1\% |
| 20-24 | 60.3\% | 68.4\% | 76.5\% | 76.3\% | 76.2\% | 76.1\% | 77.7\% | 78.6\% | 78.6\% | 78.6\% | 78.6\% | 78.6\% |
| 25-34 | 40.6\% | 51.1\% | 61.5\% | 70.4\% | 79.3\% | 81.6\% | 83.1\% | 84.8\% | 84.8\% | 84.8\% | 84.8\% | 84.8\% |
| 35-44 | 49.9\% | 57.4\% | 64.8\% | 71.2\% | 77.6\% | 79.0\% | 78.9\% | 80.5\% | 80.5\% | 80.5\% | 80.5\% | 80.5\% |
| 45-54 | 54.0\% | 61.3\% | 68.7\% | 73.7\% | 78.8\% | 83.2\% | 85.6\% | 87.8\% | 87.8\% | 87.8\% | 87.8\% | 87.8\% |
| 55-64 | 54.1\% | 52.4\% | 50.7\% | 54.2\% | 57.7\% | 63.6\% | 68.1\% | 72.5\% | 72.5\% | 72.5\% | 72.5\% | 72.5\% |
| 65 \& Over | 11.8\% | 10.2\% | 8.5\% | 10.1\% | 11.6\% | 12.4\% | 12.0\% | 12.4\% | 12.4\% | 12.4\% | 12.4\% | 12.4\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Black |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 42.4\% | 39.6\% | 36.9\% | 38.9\% | 40.9\% | 39.9\% | 39.1\% | 40.2\% | 41.2\% | 43.2\% | 45.1\% | 45.1\% |
| 20-24 | 81.3\% | 76.6\% | 71.8\% | 71.1\% | 70.3\% | 68.3\% | 65.9\% | 67.6\% | 69.2\% | 72.5\% | 75.8\% | 75.8\% |
| 25-34 | 91.8\% | 88.9\% | 86.0\% | 83.8\% | 81.7\% | 80.5\% | 80.1\% | 82.1\% | 84.1\% | 88.1\% | 92.1\% | 92.1\% |
| 35-44 | 92.0\% | 92.0\% | 92.1\% | 91.5\% | 91.0\% | 86.9\% | 87.8\% | 89.9\% | 92.1\% | 96.5\% | 99.5\% | 99.5\% |
| 45-54 | 87.2\% | 87.3\% | 87.3\% | 90.8\% | 94.3\% | 88.7\% | 90.0\% | 92.3\% | 94.5\% | 99.0\% | 99.5\% | 99.5\% |
| 55-64 | 87.2\% | 80.3\% | 73.5\% | 74.0\% | 74.6\% | 70.0\% | 74.2\% | 77.1\% | 79.0\% | 82.8\% | 86.5\% | 86.5\% |
| 65 \& Over | 38.9\% | 30.9\% | 22.8\% | 24.7\% | 26.6\% | 30.5\% | 29.7\% | 32.3\% | 33.1\% | 34.7\% | 36.3\% | 36.3\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 36.5\% | 31.8\% | 27.1\% | 36.8\% | 46.5\% | 50.1\% | 54.4\% | 57.2\% | 58.6\% | 61.4\% | 64.2\% | 64.2\% |
| 20-24 | 62.3\% | 57.4\% | 52.6\% | 60.2\% | 67.8\% | 69.4\% | 76.3\% | 79.8\% | 81.7\% | 85.6\% | 89.5\% | 89.5\% |
| 25-34 | 57.9\% | 66.3\% | 74.7\% | 74.9\% | 75.1\% | 76.7\% | 83.5\% | 87.1\% | 89.2\% | 93.5\% | 97.7\% | 97.7\% |
| 35-44 | 65.4\% | 70.7\% | 75.9\% | 78.5\% | 81.1\% | 80.7\% | 84.0\% | 87.8\% | 90.0\% | 94.3\% | 98.5\% | 98.5\% |
| 45-54 | 62.1\% | 67.1\% | 72.2\% | 80.1\% | 88.1\% | 87.9\% | 93.3\% | 98.5\% | 99.5\% | 99.5\% | 99.5\% | 99.5\% |
| 55-64 | 62.0\% | 57.4\% | 52.8\% | 57.3\% | 61.7\% | 67.5\% | 71.0\% | 77.6\% | 79.5\% | 83.3\% | 87.1\% | 87.1\% |
| 65 \& Over | 20.5\% | 18.8\% | 17.0\% | 19.1\% | 21.1\% | 16.4\% | 16.4\% | 16.2\% | 16.6\% | 17.4\% | 18.2\% | 18.2\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 1. Labor Force Participation Rates by Age, Sex, Racial/Ethnic Group and Subregion: 1970 to 2025

|  | Asian/Other |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 49.6\% | 46.3\% | 43.0\% | 46.9\% | 50.8\% | 55.1\% | 50.9\% | 52.9\% | 54.2\% | 56.8\% | 59.3\% | 59.3\% |
| 20-24 | 74.5\% | 73.4\% | 72.4\% | 63.6\% | 54.8\% | 55.9\% | 51.4\% | 52.8\% | 54.1\% | 56.7\% | 59.3\% | 59.3\% |
| 25-34 | 95.2\% | 92.2\% | 89.3\% | 89.6\% | 89.9\% | 91.5\% | 92.5\% | 94.9\% | 97.2\% | 99.5\% | 99.5\% | 99.5\% |
| 35-44 | 96.9\% | 95.7\% | 94.5\% | 93.8\% | 93.1\% | 92.3\% | 93.7\% | 96.2\% | 98.5\% | 99.5\% | 99.5\% | 99.5\% |
| 45-54 | 92.7\% | 92.5\% | 92.3\% | 92.7\% | 93.1\% | 92.5\% | 94.6\% | 97.0\% | 99.4\% | 99.5\% | 99.5\% | 99.5\% |
| 55-64 | 92.6\% | 90.9\% | 89.1\% | 83.1\% | 77.2\% | 72.6\% | 77.0\% | 79.8\% | 81.8\% | 85.7\% | 89.6\% | 89.6\% |
| 65 \& Over | 28.8\% | 26.8\% | 24.9\% | 22.2\% | 19.6\% | 21.8\% | 23.5\% | 25.9\% | 26.5\% | 27.7\% | 29.0\% | 29.0\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 43.4\% | 39.3\% | 35.2\% | 36.3\% | 37.4\% | 41.6\% | 34.8\% | 35.6\% | 36.4\% | 38.2\% | 39.9\% | 39.9\% |
| 20-24 | 60.2\% | 54.6\% | 49.0\% | 53.2\% | 57.3\% | 55.2\% | 58.2\% | 60.8\% | 62.3\% | 65.3\% | 68.3\% | 68.3\% |
| 25-34 | 40.7\% | 50.6\% | 60.5\% | 64.6\% | 68.6\% | 67.6\% | 71.3\% | 75.2\% | 77.0\% | 80.7\% | 84.3\% | 84.3\% |
| 35-44 | 49.9\% | 58.2\% | 66.5\% | 63.8\% | 61.1\% | 62.1\% | 65.3\% | 68.7\% | 70.4\% | 73.7\% | 77.1\% | 77.1\% |
| 45-54 | 54.1\% | 60.4\% | 66.8\% | 66.4\% | 66.1\% | 65.1\% | 71.7\% | 76.1\% | 77.9\% | 81.6\% | 85.3\% | 85.3\% |
| 55-64 | 54.1\% | 48.5\% | 42.9\% | 42.6\% | 42.2\% | 46.0\% | 48.2\% | 52.1\% | 53.4\% | 55.9\% | 58.5\% | 58.5\% |
| 65 \& Over | 11.8\% | 10.9\% | 10.1\% | 15.1\% | 20.1\% | 16.4\% | 18.0\% | 18.5\% | 18.9\% | 19.8\% | 20.7\% | 20.7\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Hispanic |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 51.3\% | 47.7\% | 44.2\% | 46.4\% | 48.6\% | 43.6\% | 42.5\% | 43.4\% | 44.5\% | 46.6\% | 48.7\% | 48.7\% |
| 20-24 | 80.9\% | 79.1\% | 77.3\% | 75.6\% | 73.9\% | 71.1\% | 72.5\% | 74.3\% | 76.1\% | 79.7\% | 83.3\% | 83.3\% |
| 25-34 | 94.4\% | 92.3\% | 90.1\% | 86.9\% | 83.6\% | 82.5\% | 83.6\% | 85.7\% | 87.8\% | 92.0\% | 96.1\% | 96.1\% |
| 35-44 | 94.6\% | 92.9\% | 91.2\% | 87.6\% | 84.0\% | 82.6\% | 82.7\% | 84.7\% | 86.7\% | 90.9\% | 95.0\% | 95.0\% |
| 45-54 | 90.8\% | 90.1\% | 89.4\% | 88.1\% | 86.8\% | 85.3\% | 86.4\% | 88.6\% | 90.8\% | 95.1\% | 99.4\% | 99.4\% |
| 55-64 | 90.5\% | 84.8\% | 79.0\% | 71.6\% | 64.1\% | 60.4\% | 69.3\% | 71.8\% | 73.5\% | 77.0\% | 80.5\% | 80.5\% |
| 65 \& Over | 36.3\% | 29.9\% | 23.5\% | 21.4\% | 19.3\% | 21.8\% | 19.0\% | 19.5\% | 20.0\% | 20.9\% | 21.9\% | 21.9\% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| 16-19 | 38.0\% | 36.5\% | 35.0\% | 40.4\% | 45.8\% | 47.8\% | 50.1\% | 51.8\% | 53.1\% | 55.6\% | 58.1\% | 58.1\% |
| 20-24 | 49.4\% | 52.8\% | 56.2\% | 57.1\% | 58.0\% | 54.8\% | 61.4\% | 64.3\% | 65.9\% | 69.0\% | 72.2\% | 72.2\% |
| 25-34 | 41.3\% | 48.5\% | 55.8\% | 59.6\% | 63.4\% | 63.7\% | 67.6\% | 71.5\% | 73.3\% | 76.8\% | 80.2\% | 80.2\% |
| 35-44 | 53.0\% | 56.0\% | 59.1\% | 61.7\% | 64.4\% | 64.3\% | 67.2\% | 70.9\% | 72.7\% | 76.1\% | 79.6\% | 79.6\% |
| 45-54 | 49.1\% | 55.0\% | 60.9\% | 64.2\% | 67.5\% | 69.5\% | 75.7\% | 81.2\% | 83.2\% | 87.1\% | 91.1\% | 91.1\% |
| 55-64 | 49.0\% | 46.1\% | 43.2\% | 46.0\% | 48.7\% | 45.7\% | 52.4\% | 56.5\% | 57.9\% | 60.6\% | 63.4\% | 63.4\% |
| 65 \& Over | 11.2\% | 9.3\% | 7.3\% | 8.9\% | 10.5\% | 9.6\% | 9.0\% | 8.8\% | 9.0\% | 9.5\% | 9.9\% | 9.9\% |

Table 2. Unemployment Rate by Subregion and Racial/Ethnic Group: 1970 to 2025

|  | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New York City |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 3.8\% | 8.4\% | 5.5\% | 5.2\% | 5.6\% | 5.2\% | 4.5\% | 5.0\% | 5.1\% | 5.0\% | 4.9\% | 4.8\% |
| Black | 4.9\% | 10.8\% | 11.3\% | 10.6\% | 12.9\% | 12.1\% | 10.5\% | 11.4\% | 11.6\% | 11.5\% | 11.2\% | 11.2\% |
| Asian/Other | 3.8\% | 8.3\% | 4.7\% | 4.4\% | 6.4\% | 6.0\% | 5.2\% | 5.7\% | 5.8\% | 5.7\% | 5.6\% | 5.5\% |
| Hispanic | 6.8\% | 15.0\% | 5.9\% | 5.5\% | 11.5\% | 10.8\% | 9.3\% | 10.2\% | 10.4\% | 10.2\% | 10.0\% | 10.0\% |
| Long Island |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 3.1\% | 7.5\% | 5.1\% | 3.9\% | 4.1\% | 4.5\% | 2.9\% | 3.0\% | 3.6\% | 3.8\% | 3.5\% | 3.6\% |
| Black | 3.9\% | 9.5\% | 7.4\% | 5.7\% | 7.7\% | 8.5\% | 5.5\% | 5.7\% | 6.8\% | 7.2\% | 6.7\% | 6.9\% |
| Asian/Other | 3.1\% | 7.6\% | 5.9\% | 4.5\% | 4.1\% | 4.6\% | 3.0\% | 3.1\% | 3.7\% | 3.9\% | 3.6\% | 3.7\% |
| Hispanic | 2.9\% | 7.1\% | 6.9\% | 5.2\% | 6.6\% | 7.3\% | 4.7\% | 4.9\% | 5.9\% | 6.2\% | 5.7\% | 5.9\% |
| Mid-Hudson |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 2.8\% | 6.4\% | 4.7\% | 4.6\% | 4.2\% | 4.1\% | 2.6\% | 2.9\% | 3.4\% | 3.2\% | 2.6\% | 2.5\% |
| Black | 3.9\% | 8.9\% | 7.4\% | 5.5\% | 9.6\% | 9.5\% | 6.1\% | 6.7\% | 7.8\% | 7.4\% | 6.1\% | 5.8\% |
| Asian/Other | 2.8\% | 6.5\% | 3.4\% | 2.5\% | 3.7\% | 3.7\% | 2.4\% | 2.6\% | 3.0\% | 2.9\% | 2.4\% | 2.3\% |
| Hispanic | 5.7\% | 13.0\% | 6.8\% | 5.0\% | 7.2\% | 7.1\% | 4.5\% | 5.0\% | 5.8\% | 5.5\% | 4.5\% | 4.3\% |
| New Jersey |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 3.4\% | 5.3\% | 5.3\% | 4.2\% | 4.3\% | 4.6\% | 3.0\% | 3.3\% | 3.7\% | 3.5\% | 3.4\% | 3.4\% |
| Black | 6.2\% | 9.8\% | 11.5\% | 9.2\% | 12.0\% | 12.8\% | 8.5\% | 9.2\% | 10.2\% | 9.9\% | 9.4\% | 9.4\% |
| Asian/Other | 3.4\% | 5.3\% | 4.4\% | 3.5\% | 4.8\% | 5.1\% | 3.4\% | 3.7\% | 4.1\% | 3.9\% | 3.8\% | 3.7\% |
| Hispanic | 7.2\% | 11.2\% | 10.6\% | 8.4\% | 10.3\% | 11.0\% | 7.3\% | 7.9\% | 8.8\% | 8.5\% | 8.1\% | 8.0\% |
| Connecticut |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 3.4\% | 5.4\% | 4.2\% | 3.4\% | 4.5\% | 4.2\% | 2.6\% | 2.7\% | 2.6\% | 2.2\% | 2.0\% | 2.0\% |
| Black | 5.7\% | 9.0\% | 10.7\% | 8.5\% | 12.0\% | 11.3\% | 7.1\% | 7.2\% | 6.9\% | 6.0\% | 4.9\% | 4.4\% |
| Asian/Other | 3.4\% | 5.4\% | 5.5\% | 4.4\% | 5.2\% | 4.9\% | 3.1\% | 3.1\% | 3.0\% | 2.6\% | 2.1\% | 2.0\% |
| Hispanic | 5.5\% | 8.6\% | 8.5\% | 6.8\% | 11.4\% | 10.7\% | 6.7\% | 6.8\% | 6.5\% | 5.7\% | 4.6\% | 4.2\% |

Table 3. Net Commutation Average Historical Ratios by Subregion and Racial/Ethnic Group
(Avg ratio of net commutation to resident employed labor force for 1970, 1980, 1990)

|  | White | Black | Asian/Other Hispanic |  |
| :--- | :---: | :---: | :---: | :---: |
| New York City | 0.146 | 0.148 | 0.152 | 0.149 |
| Long Island | $(0.162)$ | $(0.158)$ | $(0.151)$ | $(0.154)$ |
| Mid-Hudson | $(0.126)$ | $(0.126)$ | $(0.128)$ | $(0.128)$ |
| New Jersey | $(0.054)$ | $(0.053)$ | $(0.054)$ | $(0.053)$ |
| Connecticut | $(0.024)$ | $(0.024)$ | $(0.024)$ | $(0.024)$ |

Table 4. Net Commutation by Subregion: 1970, 1980 and 1990

|  | 1970 | 1985 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New York City | 451,755 | 430,529 | 409,303 | 467,490 | 525,677 | 466,352 | 512,160 | 523,136 | 529,531 | 544,231 | 554,036 | 561,868 |
| White | 324,641 | 279,106 | 233,571 | 243,625 | 253,679 | 217,314 | 216,530 | 207,858 | 195,081 | 185,426 | 171,717 | 158,722 |
| Black | 71,234 | 80,745 | 90,256 | 106,641 | 123,026 | 112,087 | 125,176 | 125,852 | 128,067 | 130,553 | 130,650 | 127,791 |
| Asian/Other | 9,081 | 13,301 | 17,521 | 30,469 | 43,417 | 39,549 | 53,241 | 65,787 | 74,318 | 84,845 | 96,870 | 110,833 |
| Hispanic | 46,799 | 57,377 | 67,955 | 86,755 | 105,555 | 97,402 | 117,213 | 123,639 | 132,065 | 143,407 | 154,799 | 164,521 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Long Island | (191,470) | $(181,877)$ | $(172,283)$ | $(182,405)$ | $(192,526)$ | $(184,304)$ | $(194,183)$ | $(195,697)$ | $(200,844)$ | $(207,652)$ | $(212,828)$ | $(220,503)$ |
| White | $(177,900)$ | $(166,340)$ | $(154,780)$ | $(159,161)$ | $(163,543)$ | $(155,717)$ | $(158,939)$ | $(154,079)$ | $(153,599)$ | $(152,980)$ | $(149,587)$ | $(146,773)$ |
| Black | $(8,631)$ | $(9,156)$ | $(9,681)$ | $(11,215)$ | $(12,748)$ | $(12,442)$ | $(14,463)$ | $(15,920)$ | $(17,120)$ | $(18,465)$ | $(19,647)$ | $(20,766)$ |
| Asian/Other | (894) | $(1,278)$ | $(1,662)$ | $(3,099)$ | $(4,537)$ | $(4,564)$ | $(6,371)$ | $(8,763)$ | $(10,663)$ | $(13,107)$ | $(16,287)$ | $(20,743)$ |
| Hispanic | $(4,045)$ | $(5,103)$ | $(6,161)$ | $(8,929)$ | $(11,697)$ | $(11,582)$ | $(14,410)$ | $(16,936)$ | $(19,462)$ | $(23,099)$ | $(27,306)$ | $(32,221)$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mid-Hudson | $(83,829)$ | $(98,696)$ | $(113,563)$ | $(121,589)$ | $(129,614)$ | (124,916) | $(132,993)$ | $(133,834)$ | $(136,809)$ | $(141,101)$ | (148,761) | $(157,115)$ |
| White | $(75,751)$ | $(87,227)$ | $(98,702)$ | $(102,631)$ | $(106,561)$ | $(102,142)$ | $(105,093)$ | $(101,063)$ | $(99,808)$ | $(98,198)$ | $(97,411)$ | $(93,161)$ |
| Black | $(6,013)$ | $(7,464)$ | $(8,915)$ | $(9,880)$ | $(10,845)$ | $(10,520)$ | $(12,223)$ | $(13,428)$ | $(14,386)$ | $(15,622)$ | $(17,217)$ | $(18,733)$ |
| Asian/Other | (522) | $(1,077)$ | $(1,633)$ | $(2,629)$ | $(3,624)$ | $(3,676)$ | $(5,101)$ | $(7,178)$ | $(8,660)$ | $(10,636)$ | $(13,614)$ | $(17,899)$ |
| Hispanic | $(1,543)$ | $(2,928)$ | $(4,313)$ | $(6,449)$ | $(8,584)$ | $(8,577)$ | $(10,576)$ | $(12,165)$ | $(13,955)$ | $(16,645)$ | $(20,520)$ | $(27,322)$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Jersey | $(157,139)$ | $(131,881)$ | $(106,622)$ | $(142,503)$ | $(178,383)$ | $(144,163)$ | $(155,192)$ | $(161,232)$ | $(171,546)$ | $(182,040)$ | (189,475) | $(192,154)$ |
| White | $(137,361)$ | $(112,114)$ | $(86,866)$ | $(110,303)$ | $(133,740)$ | $(106,200)$ | $(107,347)$ | $(103,930)$ | $(105,092)$ | $(104,537)$ | $(100,559)$ | (93,415) |
| Black | $(13,809)$ | $(12,413)$ | $(11,018)$ | $(15,329)$ | $(19,641)$ | $(16,153)$ | $(18,466)$ | $(18,774)$ | $(19,822)$ | $(20,968)$ | $(21,492)$ | $(20,900)$ |
| Asian/Other | $(1,030)$ | $(1,423)$ | $(1,816)$ | $(4,598)$ | $(7,381)$ | $(6,626)$ | $(9,585)$ | $(14,041)$ | $(17,735)$ | $(22,184)$ | $(27,341)$ | $(33,092)$ |
| Hispanic | $(4,939)$ | $(5,931)$ | $(6,922)$ | $(12,272)$ | $(17,621)$ | $(15,184)$ | $(19,794)$ | $(24,487)$ | $(28,897)$ | $(34,351)$ | $(40,082)$ | $(44,747)$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Connecticut | $(19,308)$ | $(18,072)$ | $(16,835)$ | $(19,982)$ | $(23,129)$ | $(20,260)$ | $(22,005)$ | $(22,637)$ | $(25,307)$ | $(25,325)$ | $(25,704)$ | $(26,619)$ |
| White | $(17,665)$ | $(16,387)$ | $(15,109)$ | $(17,441)$ | $(19,773)$ | $(17,138)$ | $(18,012)$ | $(17,762)$ | $(19,172)$ | $(18,290)$ | $(17,575)$ | $(17,317)$ |
| Black | $(1,169)$ | $(1,112)$ | $(1,055)$ | $(1,400)$ | $(1,744)$ | $(1,606)$ | $(1,927)$ | $(2,172)$ | $(2,603)$ | $(2,819)$ | $(3,037)$ | $(3,220)$ |
| Asian/Other | (90) | (109) | (127) | (261) | (396) | (363) | (533) | (772) | $(1,047)$ | $(1,280)$ | $(1,601)$ | $(2,021)$ |
| Hispanic | (383) | (463) | (544) | (880) | $(1,216)$ | $(1,154)$ | $(1,533)$ | $(1,931)$ | $(2,485)$ | $(2,935)$ | $(3,490)$ | $(4,060)$ |


|  | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New York Metro Region | 140,504 | 132,413 | 124,320 | 174,532 | 224,742 | 237,474 | 262,056 | 284,907 | 304,351 | 319,273 | 329,958 | 340,286 |
| White | 116,017 | 104,250 | 92,552 | 124,758 | 155,685 | 162,050 | 168,846 | 173,857 | 177,007 | 175,363 | 169,220 | 161,636 |
| Black | 14,890 | 16,238 | 16,927 | 24,197 | 31,327 | 34,066 | 39,344 | 43,101 | 46,761 | 49,525 | 51,115 | 51,543 |
| Asian/Other | 1,630 | 2,382 | 3,097 | 6,568 | 10,934 | 11,815 | 16,631 | 23,419 | 28,852 | 34,806 | 41,790 | 50,495 |
| Hispanic | 7,967 | 9,542 | 11,743 | 19,008 | 26,796 | 29,543 | 37,235 | 44,531 | 51,731 | 59,579 | 67,833 | 76,612 |
| New York City | 57,146 | 52,829 | 48,512 | 62,666 | 76,819 | 82,216 | 91,353 | 99,221 | 106,022 | 110,962 | 113,789 | 116,214 |
| White | 41,066 | 34,431 | 27,684 | 32,519 | 37,071 | 38,432 | 38,762 | 39,585 | 39,232 | 37,988 | 35,452 | 33,017 |
| Black | 9,011 | 10,128 | 10,697 | 14,309 | 17,978 | 19,749 | 22,325 | 23,879 | 25,660 | 26,647 | 26,874 | 26,485 |
| Asian/Other | 1,149 | 1,612 | 2,077 | 4,029 | 6,345 | 6,842 | 9,324 | 12,257 | 14,622 | 17,005 | 19,565 | 22,555 |
| Hispanic | 5,920 | 6,658 | 8,054 | 11,808 | 15,425 | 17,192 | 20,942 | 23,500 | 26,508 | 29,323 | 31,898 | 34,157 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Long Island | 19,245 | 18,191 | 17,136 | 23,157 | 29,177 | 30,221 | 33,464 | 35,182 | 36,379 | 37,298 | 38,087 | 39,039 |
| White | 17,881 | 16,598 | 15,395 | 20,190 | 24,785 | 25,521 | 27,375 | 27,683 | 27,803 | 27,459 | 26,750 | 25,966 |
| Black | 868 | 924 | 963 | 1,443 | 1,932 | 2,050 | 2,505 | 2,876 | 3,116 | 3,333 | 3,533 | 3,694 |
| Asian/Other | 90 | 134 | 165 | 386 | 688 | 745 | 1,094 | 1,569 | 1,923 | 2,345 | 2,902 | 3,657 |
| Hispanic | 407 | 535 | 613 | 1,139 | 1,773 | 1,905 | 2,491 | 3,054 | 3,536 | 4,161 | 4,901 | 5,721 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mid-Hudson | 17,863 | 15,625 | 13,386 | 21,251 | 29,116 | 33,062 | 36,247 | 39,105 | 41,818 | 44,060 | 45,829 | 47,475 |
| White | 16,142 | 13,850 | 11,634 | 17,854 | 23,937 | 26,984 | 28,583 | 29,460 | 30,430 | 30,576 | 29,916 | 28,049 |
| Black | 1,281 | 1,174 | 1,051 | 1,787 | 2,436 | 2,817 | 3,369 | 3,967 | 4,445 | 4,930 | 5,358 | 5,716 |
| Asian/Other | 111 | 162 | 192 | 462 | 814 | 975 | 1,393 | 2,101 | 2,652 | 3,326 | 4,199 | 5,412 |
| Hispanic | 329 | 438 | 508 | 1,148 | 1,928 | 2,285 | 2,901 | 3,577 | 4,291 | 5,228 | 6,356 | 8,297 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Jersey | 34,029 | 33,952 | 33,875 | 48,947 | 64,019 | 65,220 | 71,827 | 78,782 | 85,242 | 90,334 | 94,548 | 98,203 |
| White | 29,746 | 28,681 | 27,598 | 38,045 | 47,997 | 48,443 | 50,202 | 51,462 | 53,021 | 52,788 | 51,198 | 48,857 |
| Black | 2,990 | 3,273 | 3,501 | 5,347 | 7,049 | 7,332 | 8,593 | 9,250 | 9,951 | 10,536 | 10,888 | 10,876 |
| Asian/Other | 223 | 401 | 577 | 1,461 | 2,649 | 2,792 | 4,140 | 6,422 | 8,265 | 10,347 | 12,858 | 15,986 |
| Hispanic | 1,070 | 1,597 | 2,199 | 4,094 | 6,324 | 6,654 | 8,893 | 11,648 | 14,005 | 16,664 | 19,604 | 22,483 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Connecticut | 12,221 | 11,816 | 11,411 | 18,511 | 25,611 | 26,754 | 29,164 | 32,617 | 34,890 | 36,620 | 37,705 | 39,356 |
| White | 11,181 | 10,689 | 10,241 | 16,150 | 21,894 | 22,670 | 23,925 | 25,666 | 26,520 | 26,553 | 25,904 | 25,746 |
| Black | 740 | 739 | 715 | 1,311 | 1,932 | 2,118 | 2,552 | 3,129 | 3,589 | 4,080 | 4,462 | 4,772 |
| Asian/Other | 57 | 74 | 86 | 231 | 439 | 460 | 680 | 1,070 | 1,390 | 1,784 | 2,265 | 2,885 |
| Hispanic | 242 | 314 | 369 | 820 | 1,346 | 1,506 | 2,008 | 2,752 | 3,390 | 4,203 | 5,074 | 5,954 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

Source: Urbanomics (see memo text for methodology).

Table 6. Dual Job Holding Rate by Subregion: 1970 to 2025

|  | New York City | Long Island | Mid-Hudson | New Jersey | Connecticut |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 1970 | 1.11 | 1.10 | 1.06 | 1.03 | 1.05 |
| 1975 | 1.05 | 1.09 | 1.05 | 1.01 | 1.00 |
| 1980 | 1.07 | 1.09 | 1.08 | 1.10 | 1.08 |
| 1985 | 1.04 | 1.15 | 1.11 | 1.13 | 1.09 |
| 1990 | 1.03 | 1.15 | 1.12 | 1.16 | 1.11 |
| 1995 | 1.06 | 1.12 | 1.08 | 1.10 | 1.07 |
| 2000 | 1.06 | 1.12 | 1.08 | 1.10 | 1.07 |
| 2005 | 1.06 | 1.12 | 1.08 | 1.10 | 1.07 |
| 2010 | 1.06 | 1.12 | 1.08 | 1.10 | 1.07 |
| 2015 | 1.06 | 1.12 | 1.08 | 1.10 | 1.07 |
| 2020 | 1.06 | 1.12 | 1.08 | 1.10 | 1.07 |
| 2025 | 1.06 | 1.12 | 1.08 | 1.10 | 1.07 |


|  | 1970 | 1985 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New York Metro Region | 8,073,069 | 8,027,438 | 8,460,572 | 9,128,235 | 9,607,663 | 9,782,944 | 10,156,585 | 10,721,069 | 11,151,855 | 11,555,004 | 11,883,072 | 12,138,050 |
| White | 6,579,460 | 6,260,510 | 6,264,989 | 6,395,592 | 6,461,358 | 6,502,398 | 6,362,726 | 6,387,444 | 6,362,159 | 6,221,677 | 5,971,263 | 5,655,287 |
| Black | 901,927 | 1,014,554 | 1,169,112 | 1,325,053 | 1,423,720 | 1,478,255 | 1,596,019 | 1,670,469 | 1,743,766 | 1,815,142 | 1,856,568 | 1,848,817 |
| Asian/Other | 99,305 | 149,016 | 213,586 | 361,377 | 499,972 | 515,575 | 679,617 | 919,523 | 1,092,412 | 1,300,909 | 1,550,875 | 1,849,674 |
| Hispanic | 492,377 | 603,358 | 812,886 | 1,046,213 | 1,222,613 | 1,286,717 | 1,518,222 | 1,743,634 | 1,953,518 | 2,217,275 | 2,504,367 | 2,784,273 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| New York City | 3,640,352 | 3,352,438 | 3,353,590 | 3,621,647 | 3,794,781 | 3,803,225 | 3,929,664 | 4,012,219 | 4,060,040 | 4,171,445 | 4,245,016 | 4,303,210 |
| White | 2,616,034 | 2,183,471 | 1,913,743 | 1,880,404 | 1,831,272 | 1,777,136 | 1,666,594 | 1,599,850 | 1,501,503 | 1,427,189 | 1,321,679 | 1,221,659 |
| Black | 574,019 | 640,903 | 739,507 | 826,875 | 888,105 | 913,647 | 960,365 | 965,550 | 982,547 | 1,001,617 | 1,002,364 | 980,429 |
| Asian/Other | 73,180 | 102,442 | 143,556 | 233,280 | 313,418 | 317,262 | 402,052 | 496,788 | 561,213 | 640,710 | 731,512 | 836,954 |
| Hispanic | 377,120 | 425,622 | 556,783 | 681,087 | 761,985 | 795,180 | 900,653 | 950,031 | 1,014,777 | 1,101,930 | 1,189,461 | 1,264,167 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Long Island | 766,558 | 842,199 | 990,828 | 1,071,748 | 1,134,175 | 1,167,309 | 1,204,471 | 1,292,234 | 1,326,269 | 1,371,284 | 1,405,518 | 1,456,230 |
| White | 712,229 | 768,065 | 890,163 | 934,295 | 963,438 | 985,660 | 985,206 | 1,016,704 | 1,013,532 | 1,009,452 | 987,063 | 968,495 |
| Black | 34,556 | 42,864 | 55,678 | 66,936 | 75,102 | 79,258 | 90,231 | 105,718 | 113,691 | 122,622 | 130,467 | 137,899 |
| Asian/Other | 3,577 | 6,262 | 9,556 | 17,784 | 26,729 | 28,771 | 39,334 | 57,590 | 70,081 | 86,145 | 107,042 | 136,328 |
| Hispanic | 16,195 | 25,008 | 35,431 | 52,732 | 68,906 | 73,621 | 89,701 | 112,223 | 128,965 | 153,066 | 180,945 | 213,508 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mid-Hudson | 636,758 | 673,911 | 758,034 | 818,510 | 874,653 | 908,891 | 948,220 | 1,014,977 | 1,037,778 | 1,070,653 | 1,129,175 | 1,193,191 |
| White | 575,401 | 597,627 | 658,834 | 687,206 | 719,088 | 741,628 | 747,517 | 764,404 | 754,914 | 742,734 | 736,785 | 704,634 |
| Black | 45,674 | 50,612 | 59,508 | 69,180 | 73,181 | 77,553 | 88,273 | 103,106 | 110,465 | 119,954 | 132,203 | 143,846 |
| Asian/Other | 3,961 | 6,923 | 10,899 | 17,797 | 24,458 | 26,823 | 36,462 | 54,557 | 65,823 | 80,837 | 103,470 | 136,041 |
| Hispanic | 11,722 | 18,749 | 28,793 | 44,327 | 57,926 | 62,887 | 75,968 | 92,910 | 106,577 | 127,128 | 156,717 | 208,670 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Jersey | 2,350,887 | 2,430,506 | 2,556,500 | 2,751,088 | 2,895,625 | 2,969,548 | 3,129,715 | 3,430,647 | 3,642,779 | 3,856,567 | 4,002,937 | 4,046,747 |
| White | 2,055,004 | 2,052,448 | 2,082,806 | 2,138,821 | 2,170,957 | 2,206,544 | 2,188,545 | 2,242,372 | 2,267,443 | 2,255,467 | 2,169,645 | 2,015,503 |
| Black | 206,583 | 234,607 | 264,181 | 300,764 | 318,821 | 333,876 | 374,518 | 402,949 | 425,448 | 450,059 | 461,301 | 448,580 |
| Asian/Other | 15,410 | 28,851 | 43,539 | 81,752 | 119,812 | 126,656 | 179,761 | 278,750 | 352,093 | 440,401 | 542,793 | 656,958 |
| Hispanic | 73,890 | 114,600 | 165,974 | 229,752 | 286,036 | 302,471 | 386,892 | 506,576 | 597,796 | 710,641 | 829,198 | 925,705 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Connecticut | 678,514 | 728,385 | 801,621 | 865,242 | 908,430 | 933,971 | 944,514 | 970,993 | 1,084,989 | 1,085,055 | 1,100,426 | 1,138,672 |
| White | 620,792 | 658,900 | 719,443 | 754,865 | 776,603 | 791,430 | 774,864 | 764,113 | 824,768 | 786,837 | 756,091 | 744,995 |
| Black | 41,096 | 45,569 | 50,238 | 61,299 | 68,511 | 73,921 | 82,633 | 93,147 | 111,615 | 120,891 | 130,233 | 138,063 |
| Asian/Other | 3,176 | 4,537 | 6,035 | 10,763 | 15,555 | 16,062 | 22,009 | 31,839 | 43,202 | 52,817 | 66,057 | 83,393 |
| Hispanic | 13,450 | 19,379 | 25,905 | 38,315 | 47,760 | 52,558 | 65,008 | 81,894 | 105,404 | 124,510 | 148,046 | 172,222 |


|  | 1970 | 1985 | 1980 | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New York Metro Region | 8,073,069 | 8,027,438 | 8,460,572 | 9,128,235 | 9,607,663 | 9,439,283 | 10,315,369 | 10,780,817 | 11,150,310 | 11,457,813 | 11,900,710 | 12,246,966 |
| White | 6,579,460 | 6,260,510 | 6,264,989 | 6,395,592 | 6,461,358 | 6,326,700 | 6,513,500 | 6,443,427 | 6,353,327 | 6,169,649 | 5,983,644 | 5,710,238 |
| Black | 901,927 | 1,014,554 | 1,169,112 | 1,325,053 | 1,423,720 | 1,402,033 | 1,598,414 | 1,671,560 | 1,746,502 | 1,801,412 | 1,860,414 | 1,864,043 |
| Asian/Other | 99,305 | 149,016 | 213,586 | 361,377 | 499,972 | 489,561 | 681,441 | 920,105 | 1,094,300 | 1,289,117 | 1,550,962 | 1,864,913 |
| Hispanic | 492,377 | 603,358 | 812,886 | 1,046,213 | 1,222,613 | 1,220,989 | 1,522,014 | 1,745,724 | 1,956,181 | 2,197,634 | 2,505,690 | 2,807,772 |
| New York City | 3,640,352 | 3,352,438 | 3,353,590 | 3,621,647 | 3,794,781 | 3,487,884 | 3,828,125 | 3,975,385 | 4,082,958 | 4,151,149 | 4,260,135 | 4,328,482 |
| White | 2,616,034 | 2,183,471 | 1,913,743 | 1,880,404 | 1,831,272 | 1,629,776 | 1,623,518 | 1,585,148 | 1,509,963 | 1,420,228 | 1,326,369 | 1,228,817 |
| Black | 574,019 | 640,903 | 739,507 | 826,875 | 888,105 | 837,903 | 935,561 | 956,695 | 988,103 | 996,752 | 1,005,942 | 986,194 |
| Asian/Other | 73,180 | 102,442 | 143,556 | 233,280 | 313,418 | 290,969 | 391,682 | 492,251 | 564,408 | 637,624 | 734,154 | 841,910 |
| Hispanic | 377,120 | 425,622 | 556,783 | 681,087 | 761,985 | 729,236 | 877,365 | 941,291 | 1,020,484 | 1,096,545 | 1,193,670 | 1,271,562 |
| Long Island | 766,558 | 842,199 | 990,828 | 1,071,748 | 1,134,175 | 1,147,131 | 1,264,805 | 1,305,411 | 1,337,229 | 1,366,664 | 1,411,597 | 1,464,581 |
| White | 712,229 | 768,065 | 890,163 | 934,295 | 963,438 | 968,624 | 1,034,560 | 1,027,075 | 1,021,913 | 1,006,056 | 991,339 | 974,057 |
| Black | 34,556 | 42,864 | 55,678 | 66,936 | 75,102 | 77,888 | 94,751 | 106,796 | 114,632 | 122,210 | 131,033 | 138,691 |
| Asian/Other | 3,577 | 6,262 | 9,556 | 17,784 | 26,729 | 28,272 | 41,302 | 58,175 | 70,658 | 85,852 | 107,502 | 137,105 |
| Hispanic | 16,195 | 25,008 | 35,431 | 52,732 | 68,906 | 72,346 | 94,192 | 113,364 | 130,027 | 152,546 | 181,724 | 214,728 |
| Mid-Hudson | 636,758 | 673,911 | 758,034 | 818,510 | 874,653 | 876,547 | 957,531 | 1,000,594 | 1,043,336 | 1,081,539 | 1,148,929 | 1,193,083 |
| White | 575,401 | 597,627 | 658,834 | 687,206 | 719,088 | 715,229 | 754,848 | 753,563 | 758,946 | 750,274 | 749,661 | 704,555 |
| Black | 45,674 | 50,612 | 59,508 | 69,180 | 73,181 | 74,795 | 89,143 | 101,648 | 111,059 | 121,177 | 134,519 | 143,836 |
| Asian/Other | 3,961 | 6,923 | 10,899 | 17,797 | 24,458 | 25,870 | 36,821 | 53,785 | 66,178 | 81,662 | 105,284 | 136,032 |
| Hispanic | 11,722 | 18,749 | 28,793 | 44,327 | 57,926 | 60,652 | 76,718 | 91,598 | 107,153 | 128,427 | 159,466 | 208,660 |
| New Jersey | 2,350,887 | 2,430,506 | 2,556,500 | 2,751,088 | 2,895,625 | 3,021,603 | 3,289,002 | 3,474,360 | 3,632,534 | 3,777,809 | 3,958,055 | 4,092,024 |
| White | 2,055,004 | 2,052,448 | 2,082,806 | 2,138,821 | 2,170,957 | 2,245,241 | 2,299,954 | 2,270,973 | 2,261,100 | 2,209,445 | 2,145,363 | 2,038,102 |
| Black | 206,583 | 234,607 | 264,181 | 300,764 | 318,821 | 339,730 | 393,581 | 408,087 | 424,256 | 440,873 | 456,136 | 453,608 |
| Asian/Other | 15,410 | 28,851 | 43,539 | 81,752 | 119,812 | 128,867 | 188,896 | 282,283 | 351,079 | 431,379 | 536,673 | 664,269 |
| Hispanic | 73,890 | 114,600 | 165,974 | 229,752 | 286,036 | 307,764 | 406,571 | 513,017 | 596,099 | 696,112 | 819,884 | 936,046 |
| Connecticut | 678,514 | 728,385 | 801,621 | 865,242 | 908,430 | 906,119 | 975,907 | 1,025,067 | 1,054,254 | 1,080,652 | 1,121,993 | 1,168,796 |
| White | 620,792 | 658,900 | 719,443 | 754,865 | 776,603 | 767,830 | 800,620 | 806,668 | 801,406 | 783,647 | 770,912 | 764,707 |
| Black | 41,096 | 45,569 | 50,238 | 61,299 | 68,511 | 71,717 | 85,379 | 98,334 | 108,453 | 120,400 | 132,785 | 141,716 |
| Asian/Other | 3,176 | 4,537 | 6,035 | 10,763 | 15,555 | 15,582 | 22,740 | 33,611 | 41,977 | 52,601 | 67,350 | 85,597 |
| Hispanic | 13,450 | 19,379 | 25,905 | 38,315 | 47,760 | 50,990 | 67,168 | 86,454 | 102,418 | 124,004 | 150,946 | 176,776 |


|  | 1970 | 1980 | 1990 |
| :---: | :---: | :---: | :---: |
| New York Metro Region |  |  |  |
| Total | 8,391,330 | 9,009,270 | 10,275,105 |
| Male | 5,122,449 | 5,077,467 | 5,523,579 |
| Female | 3,268,880 | 3,931,803 | 4,751,526 |
| White | 6,899,033 | 6,731,635 | 6,949,327 |
| Male | 4,248,428 | 3,881,375 | 3,804,995 |
| Female | 2,650,605 | 2,850,261 | 3,144,332 |
| Black | 907,381 | 1,244,720 | 1,530,940 |
| Male | 487,339 | 604,424 | 709,424 |
| Female | 420,042 | 640,296 | 821,516 |
| Asian/Other | 96,231 | 211,107 | 501,187 |
| Male | 60,390 | 118,696 | 280,289 |
| Female | 35,841 | 92,411 | 220,898 |
| Hispanic | 488,684 | 821,808 | 1,293,651 |
| Male | 326,292 | 472,973 | 728,871 |
| Female | 162,392 | 348,835 | 564,780 |
| New York City |  |  |  |
| Total | 3,330,806 | 3,161,321 | 3,579,763 |
| Male | 1,975,511 | 1,726,318 | 1,885,745 |
| Female | 1,355,295 | 1,435,003 | 1,694,018 |
| White | 2,381,163 | 1,777,960 | 1,671,179 |
| Male | 1,408,754 | 1,000,037 | 905,264 |
| Female | 972,409 | 777,923 | 765,915 |
| Black | 528,802 | 731,798 | 878,392 |
| Male | 287,852 | 353,084 | 401,624 |
| Female | 240,950 | 378,714 | 476,768 |
| Asian/Other | 66,610 | 132,251 | 288,463 |
| Male | 41,529 | 72,926 | 161,279 |
| Female | 25,081 | 59,325 | 127,184 |
| Hispanic | 354,231 | 519,312 | 741,729 |
| Male | 237,376 | 300,271 | 417,578 |
| Female | 116,855 | 219,041 | 324,151 |
| Long Island |  |  |  |
| Total | 988,531 | 1,228,581 | 1,388,782 |
| Male | 644,542 | 724,497 | 766,935 |
| Female | 343,989 | 504,085 | 621,847 |
| White | 918,132 | 1,101,401 | 1,174,747 |
| Male | 605,389 | 657,273 | 655,243 |
| Female | 312,743 | 444,129 | 519,504 |
| Black | 44,940 | 70,596 | 95,136 |
| Male | 22,954 | 34,543 | 44,590 |
| Female | 21,986 | 36,053 | 50,546 |
| Asian/Other | 4,614 | 11,919 | 32,611 |
| Male | 3,048 | 6,998 | 18,034 |
| Female | 1,566 | 4,921 | 14,577 |
| Hispanic | 20,845 | 44,665 | 86,288 |
| Male | 13,151 | 25,683 | 49,068 |
| Female | 7,694 | 18,982 | 37,220 |


|  | 1970 | 1980 | 1990 |
| :---: | :---: | :---: | :---: |
| Mid-Hudson |  |  |  |
| Total | 742,672 | 917,434 | 1,056,551 |
| Male | 461,756 | 521,089 | 574,250 |
| Female | 280,916 | 396,345 | 482,301 |
| White | 670,186 | 795,011 | 861,773 |
| Male | 422,642 | 458,551 | 472,289 |
| Female | 247,544 | 336,460 | 389,484 |
| Black | 53,801 | 73,926 | 93,063 |
| Male | 26,855 | 35,123 | 43,779 |
| Female | 26,946 | 38,803 | 49,284 |
| Asian/Other | 4,614 | 12,975 | 29,717 |
| Male | 3,048 | 7,600 | 16,784 |
| Female | 1,566 | 5,375 | 12,933 |
| Hispanic | 14,071 | 35,522 | 71,998 |
| Male | 9,211 | 19,815 | 41,398 |
| Female | 4,860 | 15,707 | 30,600 |
| New Jersey |  |  |  |
| Total | 2,605,375 | 2,842,178 | 3,264,196 |
| Male | 1,596,967 | 1,617,751 | 1,766,856 |
| Female | 1,008,408 | 1,224,427 | 1,497,340 |
| White | 2,268,456 | 2,290,370 | 2,407,792 |
| Male | 1,403,295 | 1,326,796 | 1,320,759 |
| Female | 865,160 | 963,574 | 1,087,033 |
| Black | 235,004 | 310,966 | 384,471 |
| Male | 125,796 | 153,050 | 181,401 |
| Female | 109,208 | 157,916 | 203,070 |
| Asian/Other | 17,011 | 47,444 | 133,562 |
| Male | 10,632 | 27,350 | 74,567 |
| Female | 6,379 | 20,094 | 58,995 |
| Hispanic | 84,904 | 193,398 | 338,371 |
| Male | 57,244 | 110,555 | 190,129 |
| Female | 27,661 | 82,843 | 148,242 |
| Connecticut |  |  |  |
| Total | 723,945 | 859,756 | 985,813 |
| Male | 443,673 | 487,813 | 529,793 |
| Female | 280,272 | 371,943 | 456,020 |
| White | 661,097 | 766,893 | 833,836 |
| Male | 408,348 | 438,718 | 451,440 |
| Female | 252,749 | 328,175 | 382,396 |
| Black | 44,834 | 57,434 | 79,878 |
| Male | 23,882 | 28,624 | 38,030 |
| Female | 20,952 | 28,810 | 41,848 |
| Asian/Other | 3,382 | 6,518 | 16,834 |
| Male | 2,133 | 3,822 | 9,625 |
| Female | 1,249 | 2,696 | 7,209 |
| Hispanic | 14,632 | 28,911 | 55,265 |
| Male | 9,310 | 16,649 | 30,698 |
| Female | 5,322 | 12,262 | 24,567 |


| Region | 1970 |  |  | 1980 |  |  | 1990 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 16-19 yrs | 268,602 | 251,747 | 520,349 | 279,488 | 268,786 | 548,274 | 225,859 | 226,107 | 451,966 |
| 20-24 yrs | 505,697 | 469,087 | 974,784 | 585,139 | 557,206 | 1,142,346 | 559,863 | 529,955 | 1,089,818 |
| 25-34 yrs | 1,110,718 | 551,001 | 1,661,720 | 1,318,738 | 967,494 | 2,286,232 | 1,575,289 | 1,289,904 | 2,865,193 |
| 35-44 yrs | 1,103,530 | 617,724 | 1,721,254 | 1,026,437 | 756,698 | 1,783,134 | 1,352,193 | 1,149,826 | 2,502,020 |
| 45-54 yrs | 1,055,312 | 677,360 | 1,732,672 | 930,649 | 725,451 | 1,656,100 | 950,055 | 857,063 | 1,807,118 |
| 55-64 yrs | 850,075 | 563,533 | 1,413,608 | 731,017 | 525,351 | 1,256,368 | 634,490 | 522,533 | 1,157,022 |
| 65 yrs \& over | 228,515 | 138,429 | 366,944 | 206,000 | 130,817 | 336,817 | 225,831 | 176,137 | 401,968 |
| Total | 5,122,449 | 3,268,880 | 8,391,330 | 5,077,467 | 3,931,803 | 9,009,270 | 5,523,579 | 4,751,526 | 10,275,105 |
| New York City |  |  |  |  |  |  |  |  |  |
|  | 1970 |  |  | 1980 |  |  | 1990 |  |  |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 16-19 yrs | 81,819 | 81,025 | 162,845 | 70,701 | 66,968 | 137,669 | 65,561 | 63,835 | 129,396 |
| 20-24 yrs | 212,827 | 205,431 | 418,259 | 198,092 | 193,832 | 391,924 | 198,134 | 189,660 | 387,794 |
| 25-34 yrs | 465,360 | 252,872 | 718,232 | 495,345 | 397,580 | 892,926 | 577,283 | 487,822 | 1,065,105 |
| 35-44 yrs | 397,229 | 238,188 | 635,417 | 346,204 | 270,013 | 616,217 | 459,139 | 406,413 | 865,552 |
| $45-54$ yrs | 370,366 | 260,684 | 631,049 | 299,036 | 249,733 | 548,769 | 309,926 | 297,870 | 607,796 |
| 55-64 yrs | 349,544 | 251,560 | 601,104 | 236,021 | 197,476 | 433,498 | 200,477 | 182,296 | 382,772 |
| 65 yrs \& over | 98,366 | 65,534 | 163,900 | 80,917 | 59,402 | 140,319 | 75,226 | 66,122 | 141,348 |
| Total | 1,975,511 | 1,355,295 | 3,330,806 | 1,726,318 | 1,435,003 | 3,161,321 | 1,885,745 | 1,694,018 | 3,579,763 |
| Long Island |  |  |  |  |  |  |  |  |  |
|  | 1970 |  |  | 1980 |  |  | 1990 |  |  |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 16-19 yrs | 38,239 | 35,493 | 73,732 | 45,864 | 44,126 | 89,990 | 33,959 | 34,980 | 68,939 |
| 20-24 yrs | 53,492 | 47,201 | 100,693 | 82,498 | 75,913 | 158,411 | 77,881 | 72,648 | 150,529 |
| 25-34 yrs | 122,795 | 46,872 | 169,667 | 169,696 | 108,079 | 277,775 | 201,762 | 151,005 | 352,767 |
| 35-44 yrs | 159,066 | 73,961 | 233,027 | 147,502 | 99,297 | 246,799 | 186,012 | 148,776 | 334,788 |
| 45-54 yrs | 153,939 | 80,020 | 233,959 | 145,339 | 101,112 | 246,451 | 137,119 | 118,926 | 256,045 |
| 55-64 yrs | 95,560 | 50,270 | 145,830 | 109,722 | 64,108 | 173,830 | 97,626 | 73,951 | 171,576 |
| 65 yrs \& over | 21,451 | 10,173 | 31,624 | 23,876 | 11,450 | 35,325 | 32,576 | 21,562 | 54,138 |
| Total | 644,542 | 343,989 | 988,531 | 724,497 | 504,085 | 1,228,581 | 766,935 | 621,847 | 1,388,782 |


| Mid-Hudson |  |  |  | 1980 |  |  | 1990 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1970 |  |  |  |  |  |  |  |  |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 16-19 yrs | 26,454 | 23,214 | 49,668 | 31,735 | 32,058 | 63,794 | 24,894 | 24,946 | 49,840 |
| 20-24 yrs | 40,920 | 37,614 | 78,533 | 57,077 | 53,819 | 110,896 | 53,942 | 51,550 | 105,491 |
| 25-34 yrs | 97,935 | 45,643 | 143,578 | 128,744 | 91,308 | 220,052 | 153,962 | 122,982 | 276,944 |
| 35-44 yrs | 107,074 | 55,988 | 163,063 | 111,247 | 81,414 | 192,662 | 144,000 | 120,172 | 264,172 |
| 45-54 yrs | 91,900 | 57,074 | 148,974 | 99,758 | 75,844 | 175,602 | 104,384 | 91,672 | 196,056 |
| 55-64 yrs | 74,878 | 48,255 | 123,132 | 70,956 | 49,082 | 120,038 | 68,901 | 53,292 | 122,193 |
| 65 yrs \& over | 22,595 | 13,129 | 35,723 | 21,572 | 12,819 | 34,390 | 24,167 | 17,687 | 41,855 |
| Total | 461,756 | 280,916 | 742,672 | 521,089 | 396,345 | 917,434 | 574,250 | 482,301 | 1,056,551 |
| New Jersey |  |  |  |  |  |  |  |  |  |
|  | 1970 |  |  | 1980 |  |  | 1990 |  |  |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 16-19 yrs | 93,145 | 87,482 | 180,627 | 97,920 | 94,078 | 191,998 | 76,804 | 77,482 | 154,287 |
| 20-24 yrs | 156,159 | 140,578 | 296,737 | 190,944 | 180,699 | 371,644 | 177,615 | 167,844 | 345,459 |
| 25-34 yrs | 333,181 | 161,664 | 494,845 | 403,962 | 285,285 | 689,248 | 495,633 | 404,485 | 900,118 |
| 35-44 yrs | 347,244 | 196,768 | 544,012 | 325,216 | 235,307 | 560,523 | 432,742 | 364,144 | 796,886 |
| 45-54 yrs | 342,112 | 217,591 | 559,702 | 299,038 | 230,006 | 529,044 | 306,648 | 267,809 | 574,457 |
| 55-64 yrs | 258,509 | 166,643 | 425,152 | 240,255 | 163,142 | 403,398 | 206,772 | 163,140 | 369,912 |
| 65 yrs \& over | 66,618 | 37,682 | 104,299 | 60,415 | 35,910 | 96,325 | 70,641 | 52,435 | 123,077 |
| Total | 1,596,967 | 1,008,408 | 2,605,375 | 1,617,751 | 1,224,427 | 2,842,178 | 1,766,856 | 1,497,340 | 3,264,196 |
| Connecticut |  |  |  |  |  |  |  |  |  |
|  | 1970 |  |  | 1980 |  |  | 1990 |  |  |
|  | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 16-19 yrs | 28,945 | 24,532 | 53,477 | 33,267 | 31,557 | 64,824 | 24,640 | 24,864 | 49,504 |
| 20-24 yrs | 42,299 | 38,263 | 80,562 | 56,527 | 52,942 | 109,470 | 52,291 | 48,254 | 100,545 |
| 25-34 yrs | 91,447 | 43,951 | 135,398 | 120,990 | 85,241 | 206,231 | 146,648 | 123,611 | 270,259 |
| 35-44 yrs | 92,917 | 52,818 | 145,735 | 96,267 | 70,667 | 166,933 | 130,301 | 110,321 | 240,622 |
| 45-54 yrs | 96,995 | 61,992 | 158,987 | 87,478 | 68,757 | 156,235 | 91,978 | 80,786 | 172,764 |
| 55-64 yrs | 71,584 | 46,805 | 118,388 | 74,063 | 51,542 | 125,605 | 60,714 | 49,854 | 110,568 |
| 65 yrs \& over | 19,486 | 11,911 | 31,397 | 19,221 | 11,237 | 30,458 | 23,220 | 18,330 | 41,550 |
| Total | 443,673 | 280,272 | 723,945 | 487,813 | 371,943 | 859,756 | 529,793 | 456,020 | 985,813 |




|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 3. Calculation of White/Asian LFPR based on Residuals of Population and Labor Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | A. Input Total Population by Age |  |  | B. Aggregate by LFPR Reported Age Groups |  |  |  | C. Input LFPR From Census |  |  | D. Calculate Age-Specific Civilian Labor Force |  |  |  | E. Calculate CT LFPR |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fairfield | New Haven |  |  | Fairfield | New Haver | CT | Fairfield | New Haven |  | Fairfield | New Haver | CT |  | CT |  |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total |  |
| Male | Total | Total |  | Male |  |  |  |  |  |  |  |  |  |  |  |  |
| $>5 \mathrm{yrs}$ | 32152 | 31329 |  | 16-19 | 27,486 | 26,657 | 54,143 | 0.476724 | 0.50631 |  | 13,103 | 13,497 | 26,600 |  | 49.13\% |  |
| 5-9 yrs | 39618 | 35731 |  | 20-24 | 23,360 | 27,756 | 51,116 | 0.7866 | 0.7556 |  | 18,375 | 20,972 | 39,347 |  | 76.98\% |  |
| 10-14 yrs | 41474 | 37012 |  | 25-34 | 44,111 | 44,185 | 88,296 | 0.957 | 0.94 |  | 42,214 | 41,534 | 83,748 |  | 94.85\% |  |
| $15-19 \mathrm{yrs}$ | 34358 | 33321 |  | 35-44 | 48,524 | 40,199 | 88,723 | 0.97 | 0.96 |  | 47,068 | 38,591 | 85,659 |  | 96.55\% |  |
| $20-24$ yrs | 23360 | 27756 |  | 45-54 | 51,181 | 45,636 | 96,817 | 0.928 | 0.92 |  | 47,496 | 41,985 | 89,481 |  | 92.42\% |  |
| $25-29 \mathrm{yrs}$ | 23081 | 24877 |  | 55-64 | 37,305 | 33,341 | 70,646 | 0.928 | 0.92 |  | 34,619 | 30,674 | 65,293 |  | 92.42\% |  |
| $30-34 \mathrm{yrs}$ | 21030 | 19308 |  | 65 \& Over | 29,520 | 30,694 | 60,214 | 0.317 | 0.269 |  | 9,358 | 8,257 | 17,615 |  | 29.25\% |  |
| $35-39 \mathrm{yrs}$ | 22571 | 18741 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $40-44 \mathrm{yrs}$ | 25953 | 21458 |  | Total | 261,487 | 248,468 | 509,955 |  |  |  | 212,234 | 195,509 | 407,743 |  | 79.96\% |  |
| $45-49 \mathrm{yrs}$ | 26402 | 23124 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $50-54 \mathrm{yrs}$ | 24779 | 22512 |  | Female |  |  |  | 0.293 |  |  |  |  |  |  |  |  |
| 55-59 yrs | 21292 | 18725 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $60-64$ yrs | 16013 | 14616 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $65-69 \mathrm{yrs}$ | 10940 | 10757 |  | 16-19 | 27,129 | 25,453 | 52,582 | 0.421709 | 0.431873 |  | 11,440 | 10,992 | 22,433 |  | 42.66\% |  |
| 70-74 yrs | 7883 | 8455 |  | 20-24 | 27,565 | 31,115 | 58,680 | 0.609 | 0.594 |  | 16,787 | 18,482 | 35,269 |  | 60.10\% |  |
| $75-79 \mathrm{yrs}$ | 5609 | 5952 |  | 25-34 | 49,023 | 46,105 | 95,128 | 0.412 | 0.435 |  | 20,197 | 20,056 | 40,253 |  | 42.31\% |  |
| $80-84$ yrs | 3208 | 3537 |  | 35-44 | 51,666 | 43,485 | 95,151 | 0.479 | 0.549 |  | 24,748 | 23,873 | 48,621 |  | 51.10\% |  |
| $85+\mathrm{yrs}$ | 1880 | 1993 |  | 45-54 | 54,853 | 49,626 | 104,479 | 0.529 | 0.56 |  | 29,017 | 27,791 | 56,808 |  | 54.37\% |  |
| TOTAL | 381603 | 359204 |  | 55-64 | 40,223 | 37,832 | 78,055 | 0.529 | 0.56 |  | 21,278 | 21,186 | 42,464 |  | 54.40\% |  |
|  |  |  |  | 65 \& Over | 44,605 | 45,002 | 89,607 | 0.131 | 0.11 |  | 5,843 | 4,950 | 10,793 |  | 12.05\% |  |
| Female |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $>5$ yrs | 30932 | 30522 |  | Total | 295,064 | 278,618 | 573,682 |  |  |  | 129,311 | 127,330 | 256,642 |  | 44.74\% |  |
| 5-9 yrs | 38339 | 34372 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10-14 yrs | 40094 | 35869 |  | TOT | 556,551 | 527,086 | 1,083,637 |  |  |  | 341,545 | 322,840 | 664,385 |  | 61.31\% |  |
| 15-19 yrs | 33911 | 31816 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $20-24$ yrs | 27565 | 31115 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $25-29 \mathrm{yrs}$ | 25559 | 26014 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $30-34 \mathrm{yrs}$ | 23464 | 20091 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $35-39 \mathrm{yrs}$ | 24203 | 20165 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $40-44 \mathrm{yrs}$ | 27463 | 23320 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $45-49 \mathrm{yrs}$ | 28381 | 25086 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $50-54 \mathrm{yrs}$ | 26472 | 24540 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $55-59 \mathrm{yrs}$ | 22422 | 20698 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $60-64$ yrs | 17801 | 17134 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $65-69 \mathrm{yrs}$ | 14268 | 14352 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70-74 yrs | 11913 | 12251 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $75-79 \mathrm{yrs}$ | 8994 | 9075 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $80-84$ yrs | 5668 | 5546 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $85+\mathrm{yrs}$ | 3762 | 3778 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL | 411211 | 385744 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOT M + F | 792814 | 744948 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



Appendix D. Sample 1980 Labor Force Participation Rate Calculations: Connecticut Subregion

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | White - Un | nadjusted |  | Black |  |  | Asian/Other |  |  | Hispanic |  |  | Connecticut Unadjusted |  |
|  | Fairfield | Litchfield | New Haven | Fairfield | Litchfield | New Haven | Fairifild | Litchfield | New Haven | Fairfield | Litchfield | New Haven | White | Total |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLF | 212,853 | 44,829 | 191,629 | 14,414 | 245 | 13,965 | 2,242 | 97 | 1,483 | 10,149 | 251 | 6,249 | 449,311 | 498,406 |
| Empl. | 205,475 | 42,802 | 181,999 | 13,022 | 233 | 12,001 | 2,171 | 97 | 1,433 | 9,455 | 241 | 5,588 | 430,276 | 474,517 |
| Unemp. | 7,378 | 2,027 | 9,630 | 1,392 | 12 | 1,964 | 71 | 0 | 50 | 694 | 10 | 661 | 19,035 | 23,889 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLF | 153,511 | 33,695 | 148,939 | 14,473 | 297 | 14,040 | 1,352 | 132 | 1,212 | 8,055 | 241 | 3,966 | 336,145 | 379,913 |
| Empl. | 147,857 | 32,165 | 141,374 | 13,407 | 285 | 12,345 | 1,270 | 106 | 1,085 | 7,358 | 235 | 3,572 | 321,396 | 361,059 |
| Unemp. | 5,654 | 1,530 | 7,565 | 1,066 | 12 | 1,695 | 82 | 26 | 127 | 697 | 6 | 394 | 14,749 | 18,854 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLF | 366,364 | 78,524 | 340,568 | 28,887 | 542 | 28,005 | 3,594 | 229 | 2,695 | 18,204 | 492 | 10,215 | 785,456 | 878,319 |
| Empl. | 353,332 | 74,967 | 323,373 | 26,429 | 518 | 24,346 | 3,441 | 203 | 2,518 | 16,813 | 476 | 9,160 | 751,672 | 835,576 |
| Unemp. | 13,032 | 3,557 | 17,195 | 2,458 | 24 | 3,659 | 153 | 26 | 177 | 1,391 | 16 | 1,055 | 33,784 | 42,743 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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## Appendix D. Sample 1980 Labor Force Participation Rate Calculations: Connecticut Subregion



## Appendix D. Sample 1980 Labor Force Participation Rate Calculations: Connecticut Subregion

| 4. a) Enter LFPR estimates by mutually exclusive racial/ethnic group, age and sex b) Estimate CLF c)Adjust by racial/ethnic group |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | White Non-Hispanic |  |  |  | Black Non-Hispanic |  |  |  | Asian/Oth Non-Hispanic |  |  | Adjusted CLF |  |
| Age Group | CT Pop | CT LFPR | Unadjusted CLF | Adjusted CLF | CT Pop | CT LFPR | Unadjusted CLF | Adjusted CLF | CT Pop | CT LFPR | Unadjusted CLF |  |  |
| MALE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| POPULATION |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16-19 | 53,130 | 45.67\% | 24,266 | 25,206 | 6,207 | 28.37\% | 1,761 | 1,976 | 411 | 36.40\% | 150 | 152 |  |
| 20-24 | 59,302 | 76.94\% | 45,626 | 47,393 | 5,541 | 61.56\% | 3,411 | 3,826 | 589 | 68.20\% | 402 | 407 |  |
| 25-34 | 112,696 | 92.96\% | 104,761 | 108,819 | 9,068 | 78.42\% | 7,111 | 7,977 | 1,430 | 89.48\% | 1,280 | 1,296 |  |
| 35-44 | 87,871 | 95.08\% | 83,545 | 86,780 | 6,949 | 83.90\% | 5,830 | 6,540 | 1,152 | 94.67\% | 1,091 | 1,105 |  |
| 45-54 | 84,529 | 92.76\% | 78,406 | 81,443 | 5,400 | 79.59\% | 4,298 | 4,821 | 563 | 92.46\% | 521 | 527 |  |
| 55-64 | 84,902 | 79.00\% | 67,074 | 69,672 | 3,847 | 65.63\% | 2,525 | 2,832 | 301 | 87.49\% | 263 | 267 |  |
| 65 \& Over | 78,160 | 23.90\% | 18,682 | 19,405 | 2,689 | 21.61\% | 581 | 652 | 259 | 25.91\% | 67 | 68 |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 0 |  |
| Total | 560,590 | 75.34\% | 422,359 | 438,718 | 39,701 | 64.27\% | 25,517 | 28,624 | 4,705 | 80.18\% | 3,773 | 3,822 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FEMALE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| POPULATION |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16-19 | 51,778 | 48.31\% | 25,015 | 26,370 | 6,478 | 26.62\% | 1,725 | 1,622 | 410 | 31.57\% | 129 | 133 |  |
| 20-24 | 61,465 | 73.90\% | 45,420 | 47,880 | 6,732 | 56.91\% | 3,831 | 3,602 | 588 | 48.42\% | 285 | 293 |  |
| 25-34 | 116,839 | 58.58\% | 68,440 | 72,149 | 11,713 | 79.56\% | 9,319 | 8,763 | 1,600 | 58.83\% | 941 | 970 |  |
| 35-44 | 93,102 | 61.66\% | 57,410 | 60,521 | 9,068 | 80.88\% | 7,334 | 6,896 | 1,068 | 64.69\% | 691 | 712 |  |
| 45-54 | 90,208 | 65.34\% | 58,943 | 62,137 | 6,444 | 76.87\% | 4,953 | 4,658 | 605 | 64.93\% | 393 | 405 |  |
| 55-64 | 94,927 | 47.99\% | 45,558 | 48,027 | 4,700 | 55.91\% | 2,628 | 2,471 | 339 | 41.45\% | 141 | 145 |  |
| 65 \& Over | 121,048 | 8.69\% | 10,521 | 11,091 | 4,377 | 19.39\% | 849 | 798 | 357 | 10.44\% | 37 | 38 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 629,367 | 49.46\% | 311,308 | 328,175 | 49,512 | 61.88\% | 30,638 | 28,810 | 4,967 | 52.69\% | 2,617 | 2,696 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOT | 1,189,958 | 61.65\% | 733,667 | 766,893 | 89,214 | 62.94\% | 56,155 | 57,434 | 9,672 | 66.06\% | 6,389 | 6,518 |  |

## Appendix D. Sample 1980 Labor Force Participation Rate Calculations: Connecticut Subregion

| 4. (cont.) |  |  |  |  |  | 5. Calculate age-group adjustment factors based on Census totals fo |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hispanic |  |  |  |  |  |  |  |  |  |  |  |
| Age Group | CT Pop | CT LFPR | Unadjusted CLF | Adjusted CLF | All Races Adjusted CLF | Age Groups <br> Following <br> Census <br> Aggregation | All Races - <br> Adjusted <br> CLF | Census CLF |  |  | Census CLF | Age Group Adjustment Factor |
|  |  |  |  |  |  |  |  | Fairfield | Litchfield | New Haven | Connecticut |  |
| MALE |  |  |  |  |  |  |  |  |  |  |  |  |
| POPULATION |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Male |  |  |  |  |  |  |
| 16-19 | 3,392 | 34.14\% | 1,158 | 1,297 | 28,630 | 16-19 yrs | 28,630 | 15,175 | 2,924 | 15,172 | 33,271 | 1.16 |
| 20-24 | 3,430 | 66.47\% | 2,280 | 2,554 | 54,180 | $20-24$ yrs | 54,180 | 24,765 | 4,902 | 26,867 | 56,534 | 1.04 |
| 25-34 | 5,680 | 82.47\% | 4,685 | 5,247 | 123,339 | $25-54$ yrs | 310,637 | 146,817 | 28,959 | 128,964 | 304,740 | 0.98 |
| 35-44 | 3,965 | 83.48\% | 3,310 | 3,708 | 98,133 |  |  |  |  |  |  |  |
| 45-54 | 2,590 | 81.84\% | 2,120 | 2,374 | 89,166 |  |  |  |  |  |  |  |
| 55-64 | 1,519 | 70.87\% | 1,076 | 1,206 | 73,976 | $55-64$ yrs | 73,976 | 36,514 | 6,555 | 30,982 | 74,051 | 1.00 |
| 65 \& Over | 1,053 | 22.36\% | 235 | 264 | 20,389 | $65+\mathrm{yrs}$ | 20,389 | 9,528 | 1,939 | 7,750 | 19,217 | 0.94 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 21,629 | 68.72\% | 14,864 | 16,649 | 487,813 | Total | 487,813 | 232,799 | 45,279 | 209,735 | 487,813 | 1.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| FEMALE |  |  |  |  |  |  |  |  |  |  |  |  |
| POPULATION |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Female |  |  |  |  |  |  |
| 16-19 | 3,356 | 35.70\% | 1,198 | 1,090 | 29,215 | 16-19 yrs | 29,215 | 14,404 | 2,915 | 14,239 | 31,558 | 1.08 |
| 20-24 | 3,763 | 63.02\% | 2,371 | 2,158 | 53,934 | 20-24 yrs | 53,934 | 23,402 | 4,414 | 25,128 | 52,944 | 0.98 |
| 25-34 | 6,466 | 61.62\% | 3,984 | 3,626 | 85,507 | 25-54 yrs | 225,370 | 104,790 | 21,221 | 98,649 | 224,660 | 1.00 |
| 35-44 | 4,650 | 65.19\% | 3,031 | 2,759 | 70,888 |  |  |  |  |  |  |  |
| 45-54 | 2,904 | 67.18\% | 1,951 | 1,775 | 68,975 |  |  |  |  |  |  |  |
| 55-64 | 1,711 | 47.41\% | 811 | 738 | 51,380 | $55-64$ yrs | 51,380 | 23,969 | 4,489 | 23,086 | 51,544 | 1.00 |
| 65 \& Over | 1,480 | 8.64\% | 128 | 116 | 12,043 | $65+\mathrm{yrs}$ | 12,043 | 5,379 | 1,146 | 4,712 | 11,237 | 0.93 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 24,330 | 55.39\% | 13,475 | 12,262 | 371,943 | Total | 371,943 | 171,944 | 34,185 | 165,814 | 371,943 | 1.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOT | 45,959 | 61.66\% | 28,339 | 28,911 | 859,756 | TOT | 859,756 | 404,743 | 79,464 | 375,549 | 859,756 |  |

## Appendix D. Sample 1980 Labor Force Participation Rate Calculations: Connecticut Subregion



## Appendix D. Sample 1980 Labor Force Participation Rate Calculations: Connecticut Subregion

| 8. Calculate LFPRs based on adjusted CLF and population by age group |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | Final <br> Adjusted <br> LFPR |  |  |  |  |  |
| Age Group |  |  |  |  |  |  |  |
|  | White | Black | Asian/Oth | Hispanic |  |  |  |
| MALE |  |  |  |  |  |  |  |
| POPULATION |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| $16-19$ | $55.15 \%$ | $36.88 \%$ | $43.05 \%$ | $44.20 \%$ |  |  |  |
| $20-24$ | $83.42 \%$ | $71.84 \%$ | $72.42 \%$ | $77.26 \%$ |  |  |  |
| $25-34$ | $94.76 \%$ | $86.04 \%$ | $89.33 \%$ | $90.13 \%$ |  |  |  |
| $35-44$ | $96.92 \%$ | $92.05 \%$ | $94.51 \%$ | $91.23 \%$ |  |  |  |
| $45-54$ | $94.55 \%$ | $87.33 \%$ | $92.30 \%$ | $89.43 \%$ |  |  |  |
| $55-64$ | $82.17 \%$ | $73.48 \%$ | $89.12 \%$ | $79.02 \%$ |  |  |  |
| $65 \&$ Over | $23.41 \%$ | $22.78 \%$ | $24.85 \%$ | $23.47 \%$ |  |  |  |
|  |  |  |  |  |  |  |  |
| Total | $78.26 \%$ | $72.10 \%$ | $81.23 \%$ | $76.98 \%$ |  |  |  |
|  |  |  |  |  |  |  |  |
| FEMALE |  |  |  |  |  |  |  |
| POPULATION |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| $16-19$ | $55.01 \%$ | $27.08 \%$ | $35.18 \%$ | $35.04 \%$ |  |  |  |
| $20-24$ | $76.46 \%$ | $52.61 \%$ | $49.03 \%$ | $56.22 \%$ |  |  |  |
| $25-34$ | $61.55 \%$ | $74.70 \%$ | $60.49 \%$ | $55.82 \%$ |  |  |  |
| $35-44$ | $64.79 \%$ | $75.93 \%$ | $66.52 \%$ | $59.06 \%$ |  |  |  |
| $45-54$ | $68.66 \%$ | $72.17 \%$ | $66.77 \%$ | $60.86 \%$ |  |  |  |
| $55-64$ | $50.75 \%$ | $52.82 \%$ | $42.90 \%$ | $43.22 \%$ |  |  |  |
| $65 \&$ Over | $8.55 \%$ | $17.04 \%$ | $10.05 \%$ | $7.32 \%$ |  |  |  |
|  |  |  |  |  |  |  |  |
| Total | $52.14 \%$ | $58.19 \%$ | $54.28 \%$ | $50.40 \%$ |  |  |  |
|  |  |  |  |  |  |  |  |
| TOT | $64.45 \%$ | $64.38 \%$ | $67.39 \%$ | $62.91 \%$ |  |  |  |
|  |  |  |  |  |  |  |  |


|  | Estimated |  |  |  |  |  |  |  | Projected |  |  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |  |  |  |  |  |  |  |  |
| White Non-Hispanic Male |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 and over | 76.5 | 76.6 | 76.0 | 75.7 | 75.5 | 75.4 | 75.3 | 75.2 | 75.0 | 75.0 | 75.0 | 75.0 | 74.9 | 74.9 | 74.6 | 74.4 | 74.3 | 74.1 | 73.9 |
| 16-24 | 74.0 | 74.2 | 72.9 | 72.8 | 73.4 | 73.4 | 72.2 | 71.7 | 71.5 | 71.2 | 71.4 | 71.5 | 71.6 | 71.7 | 71.8 | 71.8 | 71.6 | 71.6 | 71.6 |
| 16-19 | 59.6 | 59.1 | 57.2 | 57.2 | 58.9 | 59.8 | 58.2 | 57.9 | 58.2 | 58.2 | 58.3 | 58.3 | 58.2 | 58.2 | 58.3 | 58.2 | 58.1 | 58.1 | 58.3 |
| 16-17 | 49.7 | 49.2 | 47.6 | 47.7 | 49.8 | 49.6 | 48.1 | 48.0 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 |
| 18-19 | 69.0 | 68.4 | 66.2 | 66.3 | 68.4 | 70.4 | 69.1 | 68.2 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 |
| 20 and over | 77.8 | 77.9 | 77.3 | 77.0 | 76.7 | 76.5 | 76.6 | 76.6 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.2 | 75.8 | 75.7 | 75.5 | 75.3 | 75.1 |
| 20-24 | 85.2 | 85.6 | 84.6 | 84.6 | 85.0 | 84.9 | 84.8 | 84.3 | 83.7 | 83.3 | 83.2 | 83.1 | 83.2 | 83.2 | 83.3 | 83.2 | 83.2 | 83.2 | 83.2 |
| 20-21 | 79.1 | 79.4 | 78.5 | 78.5 | 78.8 | 78.7 | 78.6 | 78.1 | 77.6 | 77.5 | 77.5 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 |
| 22-24 | 89.0 | 89.3 | 88.3 | 88.3 | 88.6 | 88.5 | 88.3 | 87.8 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.1 | 87.1 |
| 25 and over | 77.0 | 77.0 | 76.5 | 76.2 | 75.8 | 75.7 | 75.8 | 75.9 | 75.6 | 75.7 | 75.7 | 75.7 | 75.6 | 75.5 | 75.1 | 74.9 | 74.8 | 74.5 | 74.3 |
| 25-54 | 94.5 | 95.0 | 94.3 | 93.9 | 93.1 | 92.9 | 93.1 | 93.1 | 93.1 | 93.1 | 93.0 | 92.9 | 92.9 | 92.9 | 92.9 | 92.8 | 92.8 | 92.8 | 92.8 |
| 25-34 | 95.3 | 95.9 | 95.1 | 94.8 | 94.0 | 94.2 | 94.5 | 94.3 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.6 | 94.6 | 94.6 | 94.6 |
| 25-29 | 94.8 | 95.5 | 94.5 | 94.6 | 93.5 | 93.7 | 94.3 | 94.0 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 |
| 30-34 | 95.7 | 96.3 | 95.6 | 95.0 | 94.5 | 94.7 | 94.7 | 94.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 |
| 35-44 | 95.5 | 96.1 | 94.9 | 94.7 | 94.1 | 93.7 | 93.8 | 93.9 | 94.0 | 94.0 | 93.9 | 93.9 | 93.9 | 93.9 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 |
| 35-39 | 96.0 | 96.5 | 95.3 | 94.9 | 94.3 | 93.9 | 96.1 | 94.3 | 95.2 | 95.2 | 95.2 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 |
| 40-44 | 94.9 | 95.7 | 94.5 | 94.5 | 93.9 | 93.5 | 91.5 | 93.5 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.7 | 92.7 | 92.7 | 92.7 |
| 45-54 | 91.9 | 92.1 | 92.2 | 91.6 | 90.7 | 90.4 | 90.7 | 90.9 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.5 | 90.5 |
| 45-49 | 93.4 | 93.8 | 93.4 | 93.2 | 92.7 | 92.4 | 91.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 |
| 50-54 | 90.0 | 90.0 | 90.6 | 89.7 | 88.1 | 87.9 | 90.2 | 89.4 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 |
| 55 and over | 39.5 | 38.4 | 38.2 | 37.8 | 38.1 | 38.1 | 38.3 | 38.9 | 39.0 | 39.5 | 39.9 | 40.2 | 41.3 | 42.1 | 42.2 | 42.6 | 43.1 | 43.4 | 43.7 |
| 55-64 | 68.7 | 67.7 | 67.6 | 67.5 | 66.7 | 67.5 | 68.2 | 68.9 | 69.0 | 69.2 | 69.3 | 69.4 | 69.8 | 69.9 | 70.0 | 69.9 | 70.0 | 69.8 | 70.1 |
| 55-59 | 80.9 | 80.2 | 79.7 | 79.0 | 78.6 | 79.6 | 78.1 | 80.1 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 |
| 60-64 | 56.5 | 55.4 | 55.3 | 55.3 | 53.8 | 54.5 | 56.8 | 55.6 | 56.7 | 57.0 | 57.2 | 57.4 | 57.6 | 58.2 | 58.3 | 57.9 | 57.8 | 58.6 | 59.5 |
| 60-61 | 71.5 | 71.3 | 68.2 | 67.6 | 65.7 | 66.5 | 69.0 | 67.0 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.7 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 |
| 62-64 | 46.4 | 44.9 | 46.7 | 47.3 | 46.0 | 46.6 | 48.8 | 47.6 | 48.2 | 48.5 | 48.8 | 49.0 | 49.3 | 49.6 | 49.8 | 50.1 | 50.4 | 50.6 | 50.9 |
| 65 and over | 16.8 | 16.1 | 16.3 | 15.9 | 17.3 | 17.0 | 17.2 | 17.4 | 16.7 | 16.6 | 16.7 | 16.8 | 17.0 | 17.2 | 17.2 | 17.3 | 17.6 | 17.8 | 18.3 |
| 65-74 | 22.0 | 21.0 | 21.5 | 21.3 | 22.6 | 22.2 | 23.1 | 23.3 | 23.1 | 23.3 | 23.5 | 23.8 | 24.2 | 24.6 | 24.9 | 25.3 | 25.6 | 26.0 | 26.4 |
| 65-69 | 26.8 | 25.9 | 26.5 | 26.1 | 27.9 | 27.4 | 28.7 | 29.0 | 28.5 | 28.9 | 29.3 | 29.6 | 30.0 | 30.4 | 30.8 | 31.1 | 31.5 | 31.9 | 32.2 |
| 70 and over | 11.0 | 10.6 | 10.9 | 10.7 | 12.0 | 11.8 | 11.7 | 11.8 | 11.3 | 11.3 | 11.3 | 11.4 | 11.4 | 11.4 | 11.3 | 11.3 | 11.4 | 11.4 | 11.5 |
| 70-74 | 15.8 | 14.9 | 15.5 | 15.5 | 16.5 | 16.2 | 16.7 | 16.9 | 17.0 | 17.1 | 17.3 | 17.5 | 17.6 | 17.8 | 17.9 | 18.1 | 18.2 | 18.4 | 18.5 |
| 75 and over | 7.4 | 7.3 | 7.4 | 7.0 | 8.6 | 8.4 | 8.2 | 8.3 | 7.5 | 7.5 | 7.5 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.7 |


|  | Estimated |  |  |  |  |  |  |  | Projected |  |  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |  |  |  |  |  |  |  |  |
| White Non-Hispanic Female |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 and over | 57.8 | 58.3 | 58.1 | 58.6 | 59.5 | 59.7 | 59.8 | 60.1 | 59.9 | 60.4 | 60.8 | 61.3 | 61.8 | 62.2 | 61.7 | 61.9 | 62.1 | 62.2 | 62.3 |
| 16-24 | 67.6 | 68.1 | 66.6 | 67.8 | 68.2 | 67.6 | 67.8 | 67.4 | 67.9 | 68.0 | 68.2 | 68.4 | 68.6 | 68.8 | 69.0 | 69.1 | 69.1 | 69.2 | 69.4 |
| 16-19 | 57.3 | 57.4 | 54.2 | 56.2 | 57.9 | 58.0 | 58.0 | 57.1 | 57.9 | 58.1 | 58.2 | 58.3 | 58.3 | 58.4 | 58.5 | 58.5 | 58.4 | 58.5 | 58.7 |
| 16-17 | 48.6 | 48.7 | 46.0 | 47.7 | 49.0 | 49.3 | 50.0 | 47.8 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 |
| 18-19 | 65.0 | 65.1 | 61.5 | 63.8 | 67.1 | 67.2 | 66.3 | 66.8 | 67.5 | 67.7 | 67.8 | 67.9 | 68.0 | 68.2 | 68.3 | 68.4 | 68.6 | 68.7 | 68.8 |
| 20 and over | 57.8 | 58.3 | 58.4 | 58.8 | 59.7 | 59.8 | 59.9 | 60.3 | 60.1 | 60.5 | 61.0 | 61.5 | 62.0 | 62.4 | 61.9 | 62.1 | 62.3 | 62.4 | 62.5 |
| 20-24 | 75.3 | 75.7 | 75.4 | 76.2 | 75.8 | 75.2 | 76.1 | 76.2 | 76.8 | 76.6 | 76.8 | 76.9 | 77.1 | 77.3 | 77.6 | 77.7 | 77.9 | 78.0 | 78.2 |
| 20-21 | 71.8 | 72.2 | 71.9 | 72.7 | 71.4 | 70.7 | 71.6 | 71.7 | 72.3 | 72.4 | 72.5 | 72.6 | 72.8 | 72.9 | 73.0 | 73.1 | 73.2 | 73.4 | 73.5 |
| 22-24 | 77.5 | 77.9 | 77.6 | 78.4 | 78.5 | 77.8 | 78.7 | 78.9 | 79.5 | 79.7 | 79.9 | 80.1 | 80.3 | 80.5 | 80.7 | 80.9 | 81.0 | 81.2 | 81.4 |
| 25 and over | 56.0 | 56.5 | 56.7 | 57.1 | 58.1 | 58.3 | 58.5 | 58.9 | 58.7 | 59.1 | 59.6 | 60.1 | 60.6 | 61.0 | 60.4 | 60.7 | 60.9 | 61.0 | 61.1 |
| 25-54 | 75.5 | 76.5 | 76.2 | 76.7 | 77.5 | 77.8 | 78.1 | 78.5 | 78.1 | 78.5 | 78.8 | 79.2 | 79.5 | 79.9 | 80.2 | 80.6 | 80.9 | 81.2 | 81.5 |
| 25-34 | 75.5 | 76.3 | 76.0 | 76.2 | 77.0 | 77.7 | 77.8 | 78.5 | 78.5 | 78.8 | 79.1 | 79.4 | 79.8 | 80.1 | 80.4 | 80.7 | 81.0 | 81.3 | 81.6 |
| 25-29 | 76.5 | 77.1 | 77.2 | 77.4 | 77.9 | 78.7 | 77.0 | 80.0 | 80.9 | 80.0 | 80.2 | 80.4 | 80.6 | 80.8 | 81.0 | 81.2 | 81.4 | 81.5 | 81.7 |
| 30-34 | 74.7 | 75.5 | 75.0 | 75.3 | 76.2 | 76.9 | 78.5 | 77.2 | 76.3 | 77.8 | 78.2 | 78.6 | 79.0 | 79.4 | 79.8 | 80.3 | 80.7 | 81.1 | 81.5 |
| 35-44 | 77.5 | 78.5 | 78.0 | 78.2 | 78.7 | 78.9 | 79.1 | 79.0 | 78.1 | 78.4 | 78.8 | 79.1 | 79.4 | 79.8 | 80.1 | 80.4 | 80.7 | 81.0 | 81.3 |
| 35-39 | 76.4 | 77.5 | 76.8 | 76.9 | 77.6 | 77.8 | 79.6 | 77.5 | 77.2 | 76.9 | 77.4 | 77.9 | 78.4 | 78.9 | 79.4 | 79.9 | 80.4 | 80.9 | 81.4 |
| 40-44 | 78.7 | 79.6 | 79.4 | 79.5 | 79.9 | 80.1 | 78.6 | 80.6 | 78.9 | 80.0 | 80.1 | 80.2 | 80.4 | 80.5 | 80.6 | 80.8 | 80.9 | 81.1 | 81.2 |
| 45-54 | 72.3 | 73.8 | 73.9 | 75.3 | 76.5 | 76.4 | 77.2 | 77.8 | 77.8 | 78.2 | 78.6 | 79.0 | 79.5 | 79.9 | 80.2 | 80.6 | 80.9 | 81.3 | 81.6 |
| 45-49 | 75.9 | 77.0 | 77.2 | 78.2 | 79.6 | 79.5 | 79.6 | 79.6 | 81.2 | 80.5 | 80.8 | 81.1 | 81.4 | 81.7 | 82.0 | 82.3 | 82.6 | 82.9 | 83.2 |
| 50-54 | 68.0 | 69.9 | 69.7 | 71.6 | 72.5 | 72.4 | 74.2 | 75.8 | 73.9 | 75.6 | 76.2 | 76.7 | 77.2 | 77.7 | 78.2 | 78.7 | 79.1 | 79.5 | 79.9 |
| 55 and over | 22.5 | 22.3 | 22.6 | 22.6 | 24.0 | 23.8 | 23.8 | 24.5 | 25.0 | 25.6 | 26.3 | 27.0 | 28.4 | 29.4 | 29.3 | 29.9 | 30.7 | 31.2 | 31.7 |
| 55-64 | 45.9 | 45.9 | 47.4 | 48.2 | 50.3 | 50.6 | 50.9 | 52.5 | 52.5 | 53.3 | 54.2 | 54.8 | 55.8 | 56.5 | 57.2 | 57.7 | 58.5 | 58.8 | 59.5 |
| 55-59 | 56.4 | 57.0 | 58.0 | 58.6 | 61.2 | 61.6 | 60.9 | 62.8 | 62.9 | 63.7 | 64.5 | 65.3 | 66.1 | 66.9 | 67.7 | 68.5 | 69.2 | 70.0 | 70.7 |
| 60-64 | 36.1 | 35.4 | 37.2 | 37.8 | 38.7 | 38.9 | 39.9 | 41.1 | 40.0 | 40.7 | 41.2 | 41.7 | 42.4 | 43.2 | 43.7 | 43.9 | 44.2 | 45.2 | 46.2 |
| 60-61 | 44.5 | 43.6 | 45.9 | 46.6 | 47.1 | 47.4 | 48.5 | 49.9 | 48.4 | 48.8 | 49.2 | 49.7 | 50.1 | 50.5 | 50.9 | 51.3 | 51.8 | 52.2 | 52.6 |
| 62-64 | 30.4 | 29.8 | 31.4 | 31.9 | 33.1 | 33.3 | 34.3 | 35.3 | 34.0 | 34.6 | 35.2 | 35.9 | 36.5 | 37.1 | 37.8 | 38.4 | 39.0 | 39.7 | 40.3 |
| 65 and over | 8.5 | 8.5 | 8.3 | 8.2 | 9.3 | 9.1 | 8.8 | 8.7 | 8.8 | 8.7 | 8.8 | 8.9 | 9.0 | 9.2 | 9.0 | 9.1 | 9.2 | 9.4 | 9.7 |
| 65-74 | 13.0 | 12.9 | 12.6 | 12.4 | 14.0 | 13.8 | 13.8 | 13.5 | 14.3 | 14.3 | 14.5 | 14.6 | 14.8 | 15.1 | 15.3 | 15.5 | 15.8 | 16.0 | 16.3 |
| 65-69 | 17.2 | 17.0 | 16.5 | 16.5 | 18.7 | 18.3 | 18.6 | 18.3 | 18.7 | 18.9 | 19.1 | 19.3 | 19.5 | 19.7 | 19.9 | 20.2 | 20.4 | 20.6 | 20.8 |
| 70 and over | 4.7 | 4.8 | 4.8 | 4.7 | 5.5 | 5.4 | 5.1 | 5.1 | 5.3 | 5.2 | 5.3 | 5.3 | 5.3 | 5.3 | 5.1 | 5.1 | 5.2 | 5.2 | 5.2 |
| 70-74 | 8.0 | 8.2 | 8.2 | 7.9 | 9.0 | 8.9 | 8.7 | 8.6 | 9.7 | 9.7 | 9.8 | 9.9 | 10.0 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.4 |
| 75 and over | 2.7 | 2.8 | 2.8 | 2.8 | 3.4 | 3.4 | 3.1 | 3.1 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |


|  | Estimated |  |  |  |  |  |  |  | Projected |  |  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |  |  |  |  |  |  |  |  |
| Black Male |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 and over | 71.1 | 70.4 | 70.7 | 69.6 | 69.1 | 69.0 | 68.7 | 68.3 | 69.0 | 69.0 | 69.0 | 68.9 | 68.8 | 68.7 | 68.8 | 68.7 | 68.6 | 68.4 | 68.3 |
| 16-24 | 59.1 | 57.9 | 59.1 | 57.6 | 58.2 | 57.6 | 56.4 | 54.5 | 56.0 | 56.3 | 56.5 | 56.6 | 56.6 | 56.5 | 56.9 | 56.7 | 56.6 | 56.6 | 56.8 |
| 16-19 | 40.7 | 37.3 | 40.6 | 39.5 | 40.8 | 40.1 | 39.5 | 37.4 | 40.6 | 40.6 | 40.8 | 40.9 | 40.8 | 40.9 | 41.1 | 41.1 | 41.3 | 41.6 | 41.9 |
| 16-17 | 29.0 | 25.6 | 27.4 | 27.5 | 30.0 | 30.6 | 29.3 | 28.0 | 29.1 | 29.3 | 29.5 | 29.8 | 30.0 | 30.3 | 30.5 | 30.8 | 31.0 | 31.3 | 31.5 |
| 18-19 | 52.6 | 49.4 | 54.7 | 52.3 | 53.1 | 50.8 | 51.3 | 48.1 | 53.1 | 53.1 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 |
| 20 and over | 75.0 | 74.6 | 74.3 | 73.2 | 72.5 | 72.5 | 72.3 | 72.2 | 72.5 | 72.5 | 72.4 | 72.3 | 72.1 | 72.0 | 72.1 | 72.0 | 71.9 | 71.7 | 71.6 |
| 20-24 | 76.8 | 76.7 | 75.4 | 74.1 | 73.8 | 74.6 | 73.4 | 72.1 | 71.8 | 72.0 | 71.9 | 71.9 | 71.9 | 72.0 | 72.1 | 72.0 | 72.0 | 71.9 | 71.9 |
| 20-21 | 69.3 | 72.1 | 68.7 | 67.2 | 68.0 | 67.5 | 65.3 | 67.3 | 64.3 | 64.2 | 64.2 | 64.1 | 64.0 | 64.0 | 64.0 | 64.0 | 64.0 | 64.1 | 64.1 |
| 22-24 | 82.5 | 80.1 | 79.9 | 78.8 | 77.7 | 79.3 | 79.4 | 75.9 | 77.8 | 77.8 | 77.8 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 |
| 25 and over | 74.7 | 74.2 | 74.1 | 73.1 | 72.3 | 72.2 | 72.1 | 72.2 | 72.6 | 72.6 | 72.5 | 72.3 | 72.1 | 72.0 | 72.1 | 72.0 | 71.9 | 71.7 | 71.5 |
| 25-54 | 87.4 | 86.6 | 86.1 | 85.3 | 84.5 | 84.1 | 84.1 | 84.4 | 84.4 | 84.3 | 84.2 | 84.1 | 84.0 | 84.0 | 84.0 | 84.0 | 83.9 | 83.9 | 83.9 |
| 25-34 | 88.8 | 87.3 | 88.0 | 87.3 | 86.2 | 87.5 | 87.5 | 86.8 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.0 | 87.0 |
| 25-29 | 88.5 | 87.6 | 87.6 | 85.8 | 85.8 | 86.9 | 88.2 | 86.5 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 |
| 30-34 | 89.1 | 87.0 | 88.5 | 88.7 | 86.6 | 88.0 | 86.9 | 87.1 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 |
| 35-44 | 88.1 | 87.7 | 86.5 | 86.1 | 85.9 | 84.1 | 84.4 | 84.8 | 85.0 | 85.0 | 85.0 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 85.0 | 85.0 |
| 35-39 | 88.5 | 88.3 | 87.1 | 87.1 | 85.2 | 84.4 | 85.0 | 86.0 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 |
| 40-44 | 87.5 | 86.9 | 85.7 | 84.9 | 86.6 | 83.7 | 83.6 | 83.6 | 84.5 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.5 |
| 45-54 | 83.5 | 83.4 | 81.8 | 80.1 | 79.2 | 78.5 | 78.5 | 80.1 | 79.9 | 79.8 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.6 | 79.6 | 79.5 |
| 45-49 | 86.5 | 85.9 | 84.2 | 83.0 | 80.9 | 82.4 | 81.9 | 82.6 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.8 |
| 50-54 | 79.7 | 80.1 | 78.6 | 76.3 | 76.8 | 73.0 | 73.5 | 76.5 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 |
| 55 and over | 34.7 | 34.9 | 35.8 | 33.5 | 32.6 | 33.5 | 33.1 | 32.4 | 34.5 | 35.0 | 35.3 | 35.5 | 36.1 | 36.7 | 37.0 | 37.5 | 38.1 | 38.5 | 38.9 |
| 55-64 | 58.0 | 58.7 | 60.0 | 57.9 | 54.4 | 54.4 | 55.6 | 54.3 | 57.4 | 57.6 | 57.7 | 57.7 | 57.9 | 58.1 | 58.3 | 58.5 | 58.7 | 58.8 | 58.9 |
| 55-59 | 67.2 | 66.4 | 67.7 | 67.0 | 65.3 | 66.1 | 66.5 | 65.6 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 |
| 60-64 | 47.4 | 50.1 | 51.1 | 47.7 | 41.8 | 40.6 | 42.7 | 40.4 | 46.3 | 46.6 | 46.7 | 46.8 | 47.0 | 47.3 | 47.4 | 47.5 | 47.5 | 47.9 | 48.4 |
| 60-61 | 59.6 | 61.1 | 62.8 | 60.0 | 53.6 | 51.9 | 51.7 | 54.4 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 |
| 62-64 | 38.9 | 41.9 | 41.4 | 37.4 | 33.4 | 33.7 | 36.8 | 30.1 | 39.8 | 40.1 | 40.4 | 40.6 | 40.9 | 41.2 | 41.4 | 41.7 | 42.0 | 42.3 | 42.5 |
| 65 and over | 13.0 | 13.1 | 13.7 | 11.6 | 12.7 | 14.9 | 12.9 | 12.9 | 14.0 | 14.3 | 14.5 | 14.6 | 14.8 | 15.0 | 15.2 | 15.4 | 15.6 | 15.9 | 16.1 |
| 65-74 | 17.0 | 16.5 | 17.2 | 14.6 | 15.6 | 19.1 | 17.0 | 15.6 | 17.4 | 17.6 | 17.8 | 18.1 | 18.4 | 18.7 | 19.0 | 19.3 | 19.7 | 20.0 | 20.3 |
| 65-69 | 19.1 | 19.5 | 21.8 | 19.2 | 18.9 | 23.1 | 18.9 | 19.8 | 21.9 | 22.2 | 22.5 | 22.8 | 23.2 | 23.5 | 23.8 | 24.2 | 24.5 | 24.8 | 25.1 |
| 70 and over | 9.2 | 9.3 | 8.5 | 6.9 | 9.1 | 9.8 | 8.9 | 9.3 | 10.0 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 | 10.9 | 11.1 | 11.2 |
| 70-74 | 14.2 | 12.7 | 10.9 | 8.9 | 11.6 | 13.9 | 14.2 | 10.7 | 12.0 | 12.2 | 12.4 | 12.6 | 12.8 | 13.0 | 13.2 | 13.4 | 13.6 | 13.8 | 14.0 |
| 75 and over | 4.9 | 6.2 | 6.2 | 5.1 | 6.9 | 5.9 | 4.6 | 8.1 | 8.4 | 8.5 | 8.5 | 8.6 | 8.7 | 8.7 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 |


|  | Estimated |  |  |  |  |  |  |  | Projected |  |  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |  |  |  |  |  |  |  |  |
| Black Female |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 and over | 58.3 | 57.5 | 58.5 | 57.9 | 58.7 | 59.5 | 60.4 | 61.7 | 62.8 | 63.1 | 63.5 | 63.8 | 64.1 | 64.4 | 64.3 | 64.4 | 64.5 | 64.6 | 64.6 |
| 16-24 | 50.9 | 48.5 | 49.6 | 50.3 | 52.0 | 52.9 | 52.9 | 55.7 | 56.8 | 57.0 | 57.6 | 58.0 | 58.3 | 58.6 | 58.8 | 58.8 | 58.9 | 59.1 | 59.5 |
| 16-19 | 36.8 | 33.5 | 35.2 | 34.6 | 36.4 | 39.7 | 38.8 | 39.9 | 42.5 | 42.7 | 43.1 | 43.4 | 43.5 | 43.8 | 44.0 | 44.2 | 44.6 | 45.0 | 45.5 |
| 16-17 | 26.6 | 23.4 | 24.9 | 23.3 | 29.9 | 30.5 | 29.9 | 28.2 | 30.6 | 30.8 | 31.1 | 31.3 | 31.6 | 31.9 | 32.2 | 32.6 | 32.9 | 33.2 | 33.6 |
| 18-19 | 46.2 | 43.1 | 45.2 | 46.0 | 43.3 | 49.6 | 48.3 | 52.0 | 54.3 | 54.7 | 55.1 | 55.5 | 55.8 | 56.1 | 56.4 | 56.7 | 57.0 | 57.3 | 57.5 |
| 20 and over | 60.6 | 60.0 | 60.8 | 60.2 | 60.9 | 61.4 | 62.6 | 64.0 | 64.8 | 65.1 | 65.5 | 65.8 | 66.1 | 66.4 | 66.3 | 66.4 | 66.5 | 66.5 | 66.6 |
| 20-24 | 62.3 | 60.3 | 60.7 | 62.6 | 64.5 | 63.7 | 65.2 | 69.8 | 69.6 | 69.8 | 70.1 | 70.4 | 70.8 | 71.0 | 71.3 | 71.5 | 71.7 | 71.8 | 71.9 |
| 20-21 | 57.0 | 53.4 | 56.5 | 57.5 | 57.9 | 56.8 | 58.3 | 64.4 | 65.5 | 65.9 | 66.3 | 66.7 | 67.0 | 67.3 | 67.6 | 67.8 | 68.0 | 68.2 | 68.3 |
| 22-24 | 65.7 | 65.5 | 63.5 | 65.9 | 68.8 | 68.1 | 69.9 | 73.6 | 72.4 | 72.6 | 72.9 | 73.2 | 73.4 | 73.7 | 73.9 | 74.1 | 74.3 | 74.5 | 74.6 |
| 25 and over | 60.3 | 59.9 | 60.8 | 59.9 | 60.4 | 61.1 | 62.2 | 63.2 | 64.2 | 64.5 | 64.9 | 65.2 | 65.5 | 65.8 | 65.6 | 65.7 | 65.8 | 65.9 | 65.9 |
| 25-54 | 73.8 | 73.2 | 74.2 | 73.1 | 73.5 | 74.4 | 75.8 | 77.0 | 78.3 | 78.6 | 78.9 | 79.2 | 79.5 | 79.9 | 80.1 | 80.4 | 80.6 | 80.9 | 81.1 |
| 25-34 | 72.3 | 71.4 | 73.1 | 70.9 | 71.9 | 73.8 | 75.9 | 78.1 | 79.6 | 80.0 | 80.4 | 80.8 | 81.1 | 81.4 | 81.6 | 81.8 | 81.9 | 82.0 | 82.0 |
| 25-29 | 70.9 | 69.1 | 70.9 | 69.0 | 71.3 | 73.5 | 74.8 | 77.7 | 78.4 | 78.9 | 79.3 | 79.7 | 80.0 | 80.3 | 80.6 | 80.8 | 80.9 | 81.0 | 81.0 |
| 30-34 | 73.7 | 73.7 | 75.1 | 72.7 | 72.6 | 74.2 | 76.8 | 78.5 | 80.8 | 81.2 | 81.5 | 81.9 | 82.2 | 82.4 | 82.6 | 82.8 | 82.9 | 83.0 | 83.1 |
| 35-44 | 77.7 | 77.2 | 77.1 | 76.8 | 76.4 | 77.3 | 78.2 | 78.4 | 79.9 | 80.2 | 80.5 | 80.9 | 81.2 | 81.5 | 81.8 | 82.1 | 82.3 | 82.6 | 82.9 |
| 35-39 | 77.1 | 77.0 | 76.1 | 76.4 | 76.7 | 78.5 | 78.7 | 78.8 | 79.0 | 79.4 | 79.7 | 80.1 | 80.4 | 80.7 | 81.1 | 81.4 | 81.7 | 82.1 | 82.4 |
| 40-44 | 78.4 | 77.4 | 78.4 | 77.3 | 76.2 | 75.9 | 77.7 | 78.0 | 80.9 | 81.1 | 81.4 | 81.7 | 81.9 | 82.2 | 82.4 | 82.7 | 82.9 | 83.1 | 83.4 |
| 45-54 | 70.7 | 70.2 | 71.7 | 71.2 | 71.3 | 70.5 | 72.0 | 73.2 | 74.0 | 74.5 | 74.9 | 75.3 | 75.7 | 76.2 | 76.6 | 77.1 | 77.5 | 77.9 | 78.3 |
| 45-49 | 74.0 | 76.0 | 74.3 | 74.3 | 74.9 | 72.9 | 75.2 | 76.3 | 77.4 | 77.9 | 78.4 | 78.9 | 79.4 | 79.8 | 80.3 | 80.8 | 81.2 | 81.7 | 82.1 |
| 50-54 | 66.7 | 63.1 | 68.3 | 67.1 | 66.4 | 67.1 | 67.4 | 68.8 | 69.3 | 69.8 | 70.3 | 70.8 | 71.2 | 71.7 | 72.2 | 72.6 | 73.1 | 73.5 | 74.0 |
| 55 and over | 24.4 | 24.3 | 24.3 | 23.8 | 24.7 | 24.7 | 24.7 | 25.2 | 25.7 | 26.1 | 26.6 | 27.0 | 27.7 | 28.5 | 28.7 | 29.3 | 30.1 | 30.6 | 31.1 |
| 55-64 | 43.2 | 44.1 | 45.1 | 44.3 | 45.2 | 47.2 | 47.2 | 47.6 | 48.5 | 49.1 | 49.7 | 50.2 | 50.9 | 51.6 | 52.3 | 53.0 | 53.7 | 54.3 | 54.9 |
| 55-59 | 51.7 | 52.9 | 54.4 | 52.5 | 53.6 | 56.9 | 58.4 | 55.5 | 57.6 | 58.3 | 59.0 | 59.7 | 60.4 | 61.0 | 61.7 | 62.4 | 63.0 | 63.7 | 64.3 |
| 60-64 | 34.3 | 34.8 | 35.2 | 35.6 | 35.9 | 35.9 | 34.2 | 38.2 | 37.8 | 38.1 | 38.4 | 38.8 | 39.2 | 39.7 | 40.0 | 40.3 | 40.6 | 41.2 | 42.1 |
| 60-61 | 40.4 | 42.0 | 42.9 | 43.6 | 39.9 | 42.9 | 40.8 | 45.9 | 46.0 | 46.5 | 47.0 | 47.5 | 48.0 | 48.5 | 49.0 | 49.5 | 50.0 | 50.5 | 51.0 |
| 62-64 | 29.9 | 29.3 | 29.8 | 30.3 | 33.4 | 31.0 | 28.8 | 31.9 | 31.5 | 31.8 | 32.1 | 32.4 | 32.6 | 32.9 | 33.2 | 33.5 | 33.8 | 34.1 | 34.4 |
| 65 and over | 9.9 | 9.2 | 8.6 | 8.2 | 9.3 | 7.7 | 7.7 | 8.2 | 7.9 | 7.8 | 7.7 | 7.7 | 7.6 | 7.6 | 7.4 | 7.4 | 7.3 | 7.3 | 7.2 |
| 65-74 | 14.5 | 13.9 | 12.3 | 12.0 | 12.7 | 11.5 | 11.0 | 11.5 | 11.3 | 11.1 | 11.0 | 10.9 | 10.7 | 10.7 | 10.6 | 10.5 | 10.4 | 10.3 | 10.2 |
| 65-69 | 17.7 | 18.8 | 15.3 | 16.0 | 16.6 | 14.3 | 13.7 | 13.8 | 14.0 | 13.8 | 13.5 | 13.3 | 13.1 | 12.8 | 12.6 | 12.4 | 12.2 | 12.0 | 11.8 |
| 70 and over | 5.7 | 4.2 | 5.5 | 4.5 | 5.6 | 4.5 | 4.9 | 5.4 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.9 | 4.9 | 4.9 | 5.0 |
| 70-74 | 9.8 | 7.1 | 8.8 | 7.4 | 7.9 | 7.8 | 7.7 | 8.5 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 75 and over | 3.2 | 2.5 | 3.2 | 2.7 | 4.2 | 2.5 | 3.2 | 3.5 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |


|  | Estimated |  | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | Projected |  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 |  |  |  |  |  |  |  | 1999 | 2000 |  |  |  |  |  |  |  |  |
| Asian \& Other Male |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 and over | 75.0 | 74.4 | 75.2 | 74.9 | 74.3 | 75.2 | 73.4 | 74.7 | 75.5 | 74.8 | 74.8 | 74.8 | 74.8 | 74.8 | 74.6 | 74.5 | 74.4 | 74.2 | 74.0 |
| 16-24 | 56.6 | 53.2 | 56.4 | 57.7 | 56.1 | 59.6 | 53.4 | 53.8 | 54.5 | 53.7 | 53.7 | 53.9 | 54.1 | 54.3 | 54.5 | 54.5 | 54.5 | 54.3 | 54.3 |
| 16-19 | 37.6 | 34.9 | 36.5 | 39.4 | 37.6 | 40.8 | 34.9 | 35.2 | 37.3 | 37.5 | 37.7 | 37.9 | 38.0 | 38.1 | 38.2 | 38.2 | 38.4 | 38.5 | 38.6 |
| 16-17 | 25.3 | 23.4 | 24.6 | 29.3 | 26.1 | 27.7 | 26.7 | 27.9 | 29.9 | 30.1 | 30.3 | 30.5 | 30.7 | 31.0 | 31.2 | 31.5 | 31.7 | 32.0 | 32.3 |
| 18-19 | 50.0 | 49.1 | 48.6 | 49.4 | 50.3 | 54.9 | 46.1 | 43.6 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 |
| 20 and over | 79.1 | 78.8 | 79.3 | 78.5 | 78.0 | 78.8 | 77.5 | 78.6 | 79.1 | 78.7 | 78.6 | 78.6 | 78.5 | 78.4 | 78.3 | 78.1 | 78.0 | 77.8 | 77.6 |
| 20-24 | 72.2 | 67.6 | 71.9 | 70.8 | 69.5 | 73.7 | 68.8 | 69.5 | 68.5 | 67.8 | 67.7 | 67.7 | 67.7 | 67.8 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 |
| 20-21 | 63.4 | 57.5 | 66.1 | 64.6 | 61.7 | 67.7 | 61.8 | 63.9 | 61.1 | 61.1 | 61.1 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.1 | 61.1 |
| 22-24 | 77.9 | 74.0 | 76.1 | 74.9 | 75.6 | 78.0 | 72.9 | 73.4 | 73.7 | 73.7 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.5 | 73.5 | 73.5 |
| 25 and over | 80.1 | 80.7 | 80.5 | 79.7 | 79.4 | 79.6 | 78.8 | 79.8 | 80.4 | 80.2 | 80.1 | 80.0 | 80.0 | 79.9 | 79.7 | 79.5 | 79.3 | 79.2 | 78.9 |
| 25-54 | 88.5 | 88.9 | 89.5 | 88.3 | 87.9 | 88.7 | 88.0 | 89.2 | 90.1 | 90.1 | 90.1 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.1 |
| 25-34 | 86.4 | 87.1 | 88.0 | 86.5 | 86.6 | 87.9 | 87.3 | 87.6 | 88.9 | 88.8 | 88.9 | 88.9 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 88.9 | 88.9 |
| 25-29 | 85.6 | 85.9 | 84.8 | 84.8 | 83.6 | 87.0 | 84.8 | 84.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 |
| 30-34 | 87.1 | 88.2 | 90.9 | 88.1 | 89.6 | 88.7 | 89.8 | 90.7 | 90.4 | 90.4 | 90.5 | 90.5 | 90.5 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 |
| 35-44 | 91.3 | 91.9 | 91.9 | 90.7 | 89.7 | 90.5 | 89.0 | 91.2 | 91.8 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 92.0 | 92.0 | 92.0 | 91.9 |
| 35-39 | 89.8 | 91.1 | 93.0 | 90.2 | 88.8 | 86.5 | 89.1 | 91.5 | 93.0 | 93.1 | 93.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 |
| 40-44 | 93.1 | 92.9 | 90.8 | 91.4 | 90.7 | 95.6 | 89.0 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 |
| 45-54 | 88.0 | 87.7 | 88.5 | 87.6 | 87.7 | 87.5 | 87.7 | 88.5 | 89.4 | 89.4 | 89.4 | 89.4 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 |
| 45-49 | 88.8 | 89.4 | 90.4 | 88.6 | 88.7 | 82.9 | 88.4 | 89.7 | 90.7 | 90.8 | 90.8 | 90.8 | 90.8 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.8 |
| 50-54 | 86.8 | 85.4 | 86.3 | 86.3 | 86.4 | 91.1 | 87.0 | 87.2 | 87.7 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| 55 and over | 43.1 | 45.0 | 44.5 | 43.5 | 43.6 | 42.1 | 44.2 | 46.6 | 46.0 | 44.3 | 44.7 | 45.2 | 45.8 | 46.3 | 46.6 | 46.9 | 47.2 | 47.4 | 47.5 |
| 55-64 | 72.3 | 70.7 | 68.6 | 68.8 | 69.7 | 68.0 | 69.2 | 69.9 | 71.3 | 72.0 | 72.2 | 72.3 | 72.5 | 72.7 | 72.9 | 73.0 | 73.1 | 73.1 | 73.1 |
| 55-59 | 80.6 | 80.5 | 82.5 | 81.0 | 78.7 | 67.5 | 75.0 | 77.7 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 |
| 60-64 | 62.8 | 59.1 | 51.1 | 54.3 | 59.3 | 68.5 | 60.9 | 61.2 | 61.4 | 63.4 | 63.7 | 63.9 | 64.1 | 64.4 | 64.6 | 64.8 | 65.0 | 65.2 | 65.4 |
| 60-61 | 77.6 | 64.4 | 57.1 | 62.1 | 65.3 | 70.9 | 66.4 | 71.9 | 74.0 | 74.3 | 74.6 | 74.8 | 75.0 | 75.1 | 75.2 | 75.3 | 75.3 | 75.3 | 75.3 |
| 62-64 | 51.6 | 54.4 | 46.8 | 48.8 | 52.9 | 64.6 | 55.5 | 52.1 | 52.0 | 52.4 | 52.9 | 53.3 | 53.8 | 54.2 | 54.6 | 54.9 | 55.3 | 55.6 | 55.9 |
| 65 and over | 15.1 | 16.3 | 18.0 | 15.5 | 17.4 | 16.8 | 18.1 | 19.3 | 19.6 | 17.8 | 18.1 | 18.4 | 18.8 | 19.1 | 19.3 | 19.4 | 19.6 | 19.7 | 19.8 |
| 65-74 | 19.2 | 21.3 | 23.0 | 19.8 | 18.7 | 22.8 | 22.4 | 25.3 | 28.3 | 27.7 | 28.2 | 28.7 | 29.1 | 29.5 | 29.8 | 30.0 | 30.2 | 30.2 | 30.2 |
| 65-69 | 25.0 | 23.3 | 25.6 | 24.1 | 26.2 | 38.5 | 27.6 | 33.7 | 34.0 | 34.8 | 35.4 | 36.0 | 36.5 | 36.9 | 37.2 | 37.4 | 37.6 | 37.7 | 37.7 |
| 70 and over | 8.6 | 11.2 | 12.4 | 10.0 | 12.7 | 7.8 | 12.3 | 10.4 | 10.3 | 10.1 | 10.1 | 10.3 | 10.4 | 10.5 | 10.5 | 10.6 | 10.7 | 10.8 | 10.8 |
| 70-74 | 11.1 | 18.2 | 18.6 | 13.9 | 9.9 | 8.2 | 15.7 | 11.6 | 19.1 | 19.2 | 19.4 | 19.6 | 19.7 | 19.9 | 20.1 | 20.3 | 20.4 | 20.5 | 20.5 |
| 75 and over | 6.3 | 5.2 | 7.7 | 6.6 | 15.1 | 7.4 | 9.1 | 9.6 | 4.6 | 4.6 | 4.6 | 4.7 | 4.7 | 4.7 | 4.8 | 4.8 | 4.8 | 4.9 | 4.9 |


|  | Estimated |  |  |  |  |  |  |  | Projected |  |  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |  |  |  |  |  |  |  |  |
| Asian \& Other Female |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 and over | 57.4 | 56.6 | 58.2 | 57.1 | 56.9 | 57.2 | 58.8 | 59.0 | 59.2 | 58.9 | 59.1 | 59.4 | 59.6 | 59.9 | 59.9 | 60.1 | 60.3 | 60.4 | 60.5 |
| 16-24 | 51.1 | 49.3 | 49.6 | 47.7 | 48.6 | 51.9 | 51.4 | 51.2 | 49.9 | 50.2 | 50.3 | 50.6 | 50.9 | 51.2 | 51.4 | 51.5 | 51.6 | 51.5 | 51.4 |
| 16-19 | 37.3 | 36.7 | 39.4 | 36.7 | 38.1 | 41.5 | 38.5 | 37.3 | 35.0 | 34.7 | 34.7 | 34.9 | 34.9 | 34.8 | 34.8 | 34.6 | 34.6 | 34.5 | 34.5 |
| 16-17 | 28.3 | 26.9 | 31.7 | 24.4 | 30.0 | 29.1 | 30.4 | 25.4 | 23.8 | 23.7 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.7 | 23.8 |
| 18-19 | 46.7 | 46.9 | 47.2 | 48.8 | 46.1 | 54.7 | 47.0 | 48.4 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 |
| 20 and over | 59.3 | 58.5 | 59.9 | 58.8 | 58.5 | 58.6 | 60.5 | 60.9 | 61.3 | 61.1 | 61.3 | 61.5 | 61.8 | 62.0 | 62.0 | 62.2 | 62.4 | 62.6 | 62.7 |
| 20-24 | 62.0 | 59.2 | 57.5 | 55.3 | 55.7 | 59.7 | 60.5 | 62.2 | 62.8 | 62.8 | 62.9 | 63.1 | 63.4 | 63.6 | 63.9 | 64.2 | 64.5 | 64.7 | 65.0 |
| 20-21 | 67.2 | 124.0 | 75.6 | 50.8 | 54.4 | 59.2 | 52.9 | 61.5 | 60.1 | 60.4 | 60.7 | 60.9 | 61.2 | 61.4 | 61.7 | 61.9 | 62.2 | 62.4 | 62.6 |
| 22-24 | 59.2 | 45.4 | 50.8 | 58.2 | 56.6 | 60.1 | 65.4 | 62.6 | 64.5 | 64.5 | 64.6 | 64.8 | 65.0 | 65.3 | 65.5 | 65.8 | 66.1 | 66.4 | 66.6 |
| 25 and over | 58.9 | 58.4 | 60.3 | 59.3 | 59.0 | 58.5 | 60.5 | 60.7 | 61.1 | 60.8 | 61.1 | 61.3 | 61.6 | 61.8 | 61.8 | 62.0 | 62.2 | 62.3 | 62.5 |
| 25-54 | 67.7 | 67.3 | 69.7 | 68.7 | 68.3 | 67.6 | 70.4 | 70.7 | 71.4 | 71.8 | 72.2 | 72.7 | 73.1 | 73.6 | 74.0 | 74.4 | 74.8 | 75.3 | 75.7 |
| 25-34 | 65.9 | 65.1 | 67.4 | 66.0 | 64.6 | 64.9 | 69.2 | 67.3 | 67.8 | 68.1 | 68.5 | 68.9 | 69.2 | 69.6 | 70.0 | 70.4 | 70.8 | 71.2 | 71.5 |
| 25-29 | 64.2 | 64.6 | 65.6 | 64.6 | 64.6 | 63.2 | 69.2 | 67.7 | 68.2 | 68.5 | 68.9 | 69.3 | 69.6 | 70.0 | 70.4 | 70.8 | 71.2 | 71.6 | 72.0 |
| 30-34 | 67.5 | 65.5 | 68.9 | 67.4 | 64.6 | 66.6 | 69.2 | 66.9 | 67.3 | 67.7 | 68.1 | 68.5 | 68.9 | 69.2 | 69.6 | 70.0 | 70.4 | 70.7 | 71.1 |
| 35-44 | 68.6 | 69.5 | 71.2 | 70.9 | 71.4 | 69.8 | 71.7 | 72.8 | 72.9 | 73.1 | 73.4 | 73.8 | 74.2 | 74.5 | 74.9 | 75.3 | 75.6 | 75.9 | 76.3 |
| 35-39 | 67.9 | 68.6 | 69.7 | 67.5 | 68.5 | 64.3 | 69.7 | 71.2 | 69.5 | 70.0 | 70.4 | 70.9 | 71.3 | 71.8 | 72.2 | 72.7 | 73.1 | 73.5 | 74.0 |
| 40-44 | 69.4 | 70.5 | 72.8 | 74.7 | 74.9 | 77.1 | 74.1 | 74.5 | 76.2 | 76.5 | 76.8 | 77.0 | 77.3 | 77.6 | 77.8 | 78.1 | 78.4 | 78.6 | 78.9 |
| 45-54 | 69.6 | 67.7 | 71.3 | 69.6 | 69.4 | 68.5 | 70.5 | 72.4 | 74.3 | 75.0 | 75.5 | 76.0 | 76.6 | 77.1 | 77.6 | 78.1 | 78.6 | 79.0 | 79.5 |
| 45-49 | 71.6 | 71.4 | 75.2 | 70.9 | 70.1 | 75.6 | 72.8 | 74.8 | 77.4 | 77.8 | 78.3 | 78.7 | 79.1 | 79.5 | 79.9 | 80.3 | 80.6 | 81.0 | 81.3 |
| 50-54 | 66.8 | 62.6 | 66.4 | 68.0 | 68.5 | 62.2 | 67.0 | 69.3 | 70.7 | 71.4 | 72.1 | 72.8 | 73.5 | 74.1 | 74.8 | 75.5 | 76.1 | 76.8 | 77.4 |
| 55 and over | 26.3 | 26.6 | 26.2 | 25.7 | 26.1 | 26.5 | 25.7 | 26.4 | 27.2 | 26.6 | 27.0 | 27.4 | 28.0 | 28.6 | 28.8 | 29.3 | 29.8 | 30.1 | 30.5 |
| 55-64 | 44.2 | 43.5 | 43.6 | 44.6 | 47.4 | 48.1 | 46.1 | 47.3 | 49.1 | 49.9 | 50.4 | 50.9 | 51.5 | 52.1 | 52.7 | 53.2 | 53.7 | 54.1 | 54.5 |
| 55-59 | 56.5 | 50.9 | 53.4 | 54.8 | 58.0 | 66.2 | 54.6 | 55.8 | 57.6 | 58.0 | 58.4 | 58.8 | 59.1 | 59.5 | 59.9 | 60.3 | 60.7 | 61.0 | 61.4 |
| 60-64 | 30.3 | 35.8 | 33.5 | 32.1 | 33.5 | 28.7 | 35.9 | 36.8 | 38.5 | 38.7 | 39.3 | 40.0 | 40.6 | 41.3 | 41.9 | 42.6 | 43.3 | 44.0 | 44.8 |
| 60-61 | 37.9 | 44.4 | 40.3 | 39.1 | 45.9 | 37.6 | 46.4 | 47.4 | 43.4 | 44.0 | 44.7 | 45.3 | 45.9 | 46.6 | 47.2 | 47.8 | 48.5 | 49.1 | 49.7 |
| 62-64 | 25.0 | 29.0 | 28.7 | 27.6 | 26.8 | 24.8 | 29.5 | 30.6 | 34.5 | 35.1 | 35.7 | 36.3 | 36.9 | 37.6 | 38.2 | 38.9 | 39.5 | 40.2 | 40.9 |
| 65 and over | 8.9 | 9.1 | 8.6 | 7.7 | 7.1 | 7.3 | 6.6 | 7.8 | 8.6 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.1 | 8.1 | 8.2 |
| 65-74 | 12.0 | 11.4 | 11.8 | 10.6 | 7.9 | 4.7 | 9.0 | 10.6 | 10.8 | 10.7 | 10.7 | 10.7 | 10.8 | 10.9 | 10.9 | 11.0 | 11.1 | 11.2 | 11.3 |
| 65-69 | 14.6 | 14.5 | 16.5 | 11.3 | 9.1 | 5.0 | 11.3 | 13.8 | 14.1 | 14.2 | 14.3 | 14.3 | 14.4 | 14.5 | 14.6 | 14.7 | 14.8 | 14.9 | 15.1 |
| 70 and over | 4.9 | 5.6 | 3.7 | 5.6 | 5.9 | 8.6 | 4.2 | 4.3 | 5.3 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 70-74 | 7.6 | 6.7 | 5.2 | 9.7 | 6.2 | 4.4 | 6.6 | 6.2 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| 75 and over | 2.9 | 4.6 | 2.5 | 2.3 | 5.7 | 12.5 | 2.2 | 3.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |


|  | Estimated |  |  |  |  |  |  |  | Projected |  |  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |  |  |  |  |  |  |  |  |
| Hispanic Male |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 and over | 81.4 | 80.3 | 80.7 | 80.2 | 79.2 | 79.1 | 79.6 | 80.1 | 79.8 | 79.1 | 79.0 | 78.9 | 78.8 | 78.7 | 78.7 | 78.5 | 78.4 | 78.1 | 77.9 |
| 16-24 | 75.8 | 73.7 | 73.0 | 72.8 | 72.5 | 71.2 | 70.4 | 70.3 | 70.6 | 70.6 | 70.7 | 70.9 | 70.8 | 70.8 | 70.9 | 70.7 | 70.4 | 70.0 | 69.7 |
| 16-19 | 56.0 | 51.5 | 52.1 | 50.9 | 50.0 | 50.2 | 50.0 | 47.4 | 48.7 | 48.8 | 48.9 | 49.0 | 48.8 | 48.7 | 48.8 | 48.8 | 48.7 | 48.5 | 48.6 |
| 16-17 | 38.3 | 33.2 | 35.3 | 33.2 | 34.6 | 35.0 | 32.2 | 30.2 | 32.0 | 32.1 | 32.2 | 32.2 | 32.3 | 32.4 | 32.5 | 32.6 | 32.7 | 32.8 | 33.0 |
| 18-19 | 71.5 | 67.8 | 67.8 | 67.8 | 66.1 | 65.7 | 67.1 | 66.3 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.7 |
| 20 and over | 84.7 | 83.8 | 84.0 | 83.5 | 82.5 | 82.4 | 83.0 | 84.1 | 83.6 | 82.8 | 82.7 | 82.5 | 82.4 | 82.3 | 82.2 | 82.1 | 81.9 | 81.7 | 81.6 |
| 20-24 | 89.6 | 88.5 | 87.4 | 87.8 | 88.0 | 86.2 | 85.7 | 88.1 | 88.1 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.8 |
| 20-21 | 86.2 | 85.7 | 83.8 | 83.5 | 84.4 | 83.0 | 82.0 | 84.2 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 83.9 |
| 22-24 | 91.8 | 90.4 | 89.7 | 91.0 | 90.1 | 88.2 | 88.0 | 90.4 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.5 | 90.5 | 90.5 | 90.5 |
| 25 and over | 83.6 | 82.8 | 83.3 | 82.6 | 81.4 | 81.6 | 82.5 | 83.4 | 82.8 | 81.9 | 81.7 | 81.6 | 81.4 | 81.2 | 81.2 | 81.0 | 80.9 | 80.7 | 80.5 |
| 25-54 | 92.4 | 91.2 | 91.5 | 91.7 | 90.9 | 91.0 | 91.5 | 91.8 | 91.6 | 91.4 | 91.4 | 91.3 | 91.3 | 91.2 | 91.2 | 91.2 | 91.1 | 91.1 | 91.1 |
| 25-34 | 94.1 | 92.6 | 92.9 | 92.9 | 92.5 | 92.9 | 93.2 | 93.5 | 94.0 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 |
| 25-29 | 94.2 | 92.6 | 92.6 | 92.8 | 91.8 | 91.2 | 93.2 | 93.5 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.9 | 92.9 |
| 30-34 | 94.0 | 92.6 | 93.2 | 92.9 | 93.2 | 94.7 | 93.2 | 93.5 | 95.2 | 95.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 |
| 35-44 | 92.8 | 91.1 | 92.2 | 92.4 | 91.6 | 91.3 | 91.7 | 91.9 | 91.4 | 91.4 | 91.4 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 |
| 35-39 | 93.8 | 91.8 | 92.7 | 93.4 | 91.7 | 96.8 | 92.6 | 92.9 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 |
| 40-44 | 91.6 | 90.3 | 91.7 | 91.2 | 91.2 | 85.0 | 90.5 | 90.7 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 |
| 45-54 | 87.1 | 87.6 | 86.8 | 87.2 | 85.7 | 85.6 | 87.0 | 87.9 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 |
| 45-49 | 87.6 | 90.5 | 88.0 | 88.1 | 87.6 | 83.3 | 88.0 | 88.8 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 |
| 50-54 | 86.4 | 84.2 | 85.4 | 86.0 | 82.9 | 89.2 | 85.7 | 86.5 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 |
| 55 and over | 42.9 | 43.7 | 44.3 | 40.9 | 39.7 | 40.0 | 42.8 | 44.6 | 43.6 | 42.4 | 42.6 | 42.7 | 43.2 | 43.5 | 43.7 | 44.0 | 44.4 | 44.6 | 44.9 |
| 55-64 | 66.3 | 67.5 | 68.7 | 65.7 | 63.7 | 62.4 | 65.9 | 68.4 | 70.2 | 71.4 | 71.6 | 71.8 | 72.0 | 72.1 | 72.3 | 72.4 | 72.6 | 72.5 | 72.6 |
| 55-59 | 78.0 | 78.5 | 78.5 | 77.9 | 72.4 | 71.1 | 78.4 | 81.4 | 83.5 | 83.6 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 |
| 60-64 | 52.8 | 54.9 | 57.0 | 50.4 | 52.0 | 50.8 | 50.7 | 52.7 | 54.0 | 54.5 | 54.7 | 55.0 | 55.1 | 55.3 | 55.6 | 55.7 | 55.9 | 56.2 | 56.5 |
| 60-61 | 68.1 | 69.0 | 69.4 | 61.0 | 63.1 | 61.6 | 61.5 | 63.9 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 |
| 62-64 | 41.2 | 45.1 | 48.8 | 43.6 | 44.9 | 43.9 | 43.8 | 45.5 | 46.6 | 46.9 | 47.2 | 47.5 | 47.7 | 48.0 | 48.3 | 48.5 | 48.8 | 49.1 | 49.4 |
| 65 and over | 14.0 | 14.0 | 14.8 | 15.2 | 14.5 | 15.8 | 16.7 | 17.3 | 14.9 | 13.8 | 13.8 | 13.7 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.9 | 14.0 |
| 65-74 | 17.4 | 18.5 | 18.8 | 19.4 | 17.6 | 20.6 | 21.3 | 22.1 | 19.0 | 18.5 | 18.5 | 18.6 | 18.7 | 18.9 | 19.1 | 19.2 | 19.3 | 19.4 | 19.6 |
| 65-69 | 22.4 | 22.0 | 23.7 | 25.1 | 22.0 | 27.8 | 27.5 | 28.6 | 24.6 | 24.7 | 24.9 | 25.1 | 25.3 | 25.5 | 25.6 | 25.8 | 26.0 | 26.1 | 26.3 |
| 70 and over | 7.5 | 8.7 | 8.7 | 8.1 | 9.5 | 7.9 | 8.7 | 9.0 | 7.8 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 70-74 | 9.6 | 13.3 | 11.2 | 10.5 | 11.2 | 10.3 | 11.3 | 11.8 | 10.1 | 10.1 | 10.1 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.3 | 10.3 |
| 75 and over | 5.6 | 5.1 | 6.5 | 6.0 | 8.0 | 5.8 | 6.4 | 6.7 | 5.7 | 5.7 | 5.7 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |


|  | Estimated |  |  |  |  |  |  |  | Projected |  |  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |  |  |  |  |  |  |  |  |
| Hispanic Female |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 and over | 53.1 | 52.3 | 52.8 | 52.1 | 52.9 | 52.6 | 53.4 | 55.1 | 55.6 | 55.7 | 56.1 | 56.4 | 56.7 | 57.0 | 57.2 | 57.4 | 57.6 | 57.7 | 57.9 |
| 16-24 | 50.4 | 48.6 | 50.7 | 48.0 | 49.6 | 49.2 | 49.2 | 51.1 | 53.2 | 53.3 | 53.6 | 53.9 | 54.1 | 54.3 | 54.5 | 54.6 | 54.6 | 54.6 | 54.6 |
| 16-19 | 38.7 | 38.0 | 39.1 | 36.7 | 38.7 | 40.4 | 36.5 | 38.0 | 42.4 | 42.1 | 42.3 | 42.5 | 42.5 | 42.5 | 42.7 | 42.7 | 42.7 | 42.5 | 42.6 |
| 16-17 | 28.1 | 27.2 | 27.5 | 24.2 | 28.4 | 29.0 | 26.8 | 27.5 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 |
| 18-19 | 48.0 | 47.6 | 49.9 | 48.4 | 48.0 | 50.1 | 46.1 | 48.5 | 55.4 | 55.7 | 56.0 | 56.3 | 56.6 | 56.9 | 57.2 | 57.4 | 57.7 | 58.0 | 58.3 |
| 20 and over | 54.8 | 54.0 | 54.3 | 53.8 | 54.4 | 53.9 | 55.2 | 57.0 | 57.1 | 57.3 | 57.6 | 57.9 | 58.3 | 58.6 | 58.7 | 58.9 | 59.2 | 59.4 | 59.6 |
| 20-24 | 59.2 | 56.4 | 59.2 | 56.2 | 57.9 | 55.9 | 59.2 | 62.3 | 62.2 | 62.4 | 62.6 | 62.8 | 63.1 | 63.4 | 63.7 | 64.0 | 64.4 | 64.7 | 65.0 |
| 20-21 | 59.0 | 55.1 | 57.0 | 55.5 | 59.3 | 52.3 | 57.4 | 62.2 | 62.0 | 62.3 | 62.6 | 62.9 | 63.2 | 63.5 | 63.8 | 64.0 | 64.3 | 64.5 | 64.8 |
| 22-24 | 59.3 | 57.2 | 60.8 | 56.4 | 56.9 | 58.2 | 60.4 | 62.3 | 62.4 | 62.4 | 62.6 | 62.8 | 63.0 | 63.3 | 63.7 | 64.0 | 64.4 | 64.8 | 65.2 |
| 25 and over | 53.9 | 53.5 | 53.4 | 53.3 | 53.8 | 53.6 | 54.6 | 56.2 | 56.3 | 56.5 | 56.8 | 57.2 | 57.5 | 57.8 | 57.9 | 58.2 | 58.4 | 58.6 | 58.8 |
| 25-54 | 62.3 | 61.7 | 62.3 | 62.1 | 62.7 | 62.9 | 64.0 | 65.7 | 65.8 | 66.3 | 66.8 | 67.2 | 67.7 | 68.2 | 68.6 | 69.1 | 69.5 | 70.0 | 70.4 |
| 25-34 | 61.3 | 59.8 | 60.8 | 60.5 | 60.5 | 61.6 | 62.0 | 63.7 | 64.5 | 65.0 | 65.4 | 65.8 | 66.3 | 66.7 | 67.1 | 67.5 | 67.9 | 68.3 | 68.6 |
| 25-29 | 59.4 | 59.0 | 60.2 | 59.4 | 59.6 | 59.2 | 60.9 | 62.6 | 63.4 | 63.9 | 64.3 | 64.8 | 65.2 | 65.7 | 66.1 | 66.6 | 67.0 | 67.4 | 67.8 |
| 30-34 | 63.3 | 60.8 | 61.7 | 61.7 | 61.4 | 64.0 | 63.1 | 64.8 | 65.7 | 66.1 | 66.5 | 66.9 | 67.3 | 67.7 | 68.1 | 68.4 | 68.8 | 69.2 | 69.5 |
| 35-44 | 66.0 | 65.3 | 66.0 | 65.4 | 66.4 | 65.9 | 67.0 | 69.3 | 67.9 | 68.4 | 68.8 | 69.2 | 69.6 | 70.0 | 70.5 | 70.9 | 71.3 | 71.7 | 72.0 |
| 35-39 | 66.1 | 65.3 | 66.1 | 64.9 | 65.0 | 68.0 | 66.4 | 68.8 | 67.3 | 67.7 | 68.0 | 68.3 | 68.7 | 69.0 | 69.3 | 69.7 | 70.0 | 70.3 | 70.6 |
| 40-44 | 65.9 | 65.5 | 65.9 | 66.0 | 68.1 | 63.4 | 67.7 | 70.1 | 68.6 | 69.1 | 69.6 | 70.1 | 70.6 | 71.1 | 71.6 | 72.1 | 72.5 | 73.0 | 73.5 |
| 45-54 | 58.8 | 60.3 | 59.4 | 59.6 | 61.4 | 60.5 | 62.7 | 63.3 | 64.7 | 65.3 | 65.9 | 66.5 | 67.2 | 67.8 | 68.4 | 69.0 | 69.5 | 70.1 | 70.6 |
| 45-49 | 63.0 | 61.5 | 60.8 | 63.1 | 63.8 | 64.4 | 66.4 | 67.2 | 68.6 | 69.4 | 70.2 | 71.0 | 71.8 | 72.6 | 73.3 | 74.0 | 74.7 | 75.4 | 76.1 |
| 50-54 | 53.9 | 58.8 | 57.7 | 55.1 | 58.3 | 55.7 | 57.9 | 58.5 | 59.7 | 60.2 | 60.6 | 61.1 | 61.5 | 61.9 | 62.4 | 62.8 | 63.2 | 63.7 | 64.1 |
| 55 and over | 24.2 | 24.0 | 22.4 | 23.2 | 22.6 | 21.8 | 23.2 | 23.6 | 23.2 | 23.5 | 23.8 | 24.0 | 24.4 | 24.7 | 24.8 | 25.1 | 25.4 | 25.6 | 25.9 |
| 55-64 | 39.7 | 40.5 | 38.0 | 40.1 | 37.9 | 37.2 | 40.5 | 40.6 | 41.8 | 42.2 | 42.7 | 43.1 | 43.6 | 44.0 | 44.5 | 44.9 | 45.3 | 45.6 | 46.0 |
| 55-59 | 46.3 | 48.5 | 46.4 | 47.9 | 44.1 | 45.8 | 47.7 | 47.7 | 49.1 | 49.5 | 49.9 | 50.3 | 50.7 | 51.1 | 51.5 | 51.9 | 52.3 | 52.7 | 53.1 |
| 60-64 | 31.1 | 31.8 | 29.1 | 31.1 | 31.3 | 27.8 | 32.1 | 32.3 | 33.3 | 33.8 | 34.2 | 34.5 | 34.8 | 35.3 | 35.7 | 36.0 | 36.3 | 36.8 | 37.2 |
| 60-61 | 36.3 | 39.3 | 37.5 | 38.9 | 39.8 | 35.4 | 39.5 | 39.6 | 40.8 | 41.1 | 41.4 | 41.7 | 42.0 | 42.3 | 42.7 | 43.0 | 43.3 | 43.6 | 43.9 |
| 62-64 | 27.4 | 25.7 | 23.6 | 26.1 | 25.7 | 22.8 | 27.1 | 27.5 | 28.3 | 28.7 | 29.0 | 29.4 | 29.8 | 30.1 | 30.5 | 30.9 | 31.3 | 31.7 | 32.0 |
| 65 and over | 7.2 | 6.7 | 6.7 | 7.4 | 7.9 | 6.6 | 6.9 | 8.1 | 6.6 | 6.3 | 6.2 | 6.1 | 6.1 | 6.1 | 5.9 | 5.9 | 5.8 | 5.8 | 5.8 |
| 65-74 | 10.6 | 9.6 | 10.0 | 10.1 | 10.1 | 7.1 | 7.4 | 10.9 | 8.9 | 8.7 | 8.7 | 8.6 | 8.5 | 8.5 | 8.5 | 8.4 | 8.4 | 8.3 | 8.3 |
| 65-69 | 12.1 | 12.2 | 12.4 | 12.1 | 13.1 | 10.9 | 12.2 | 14.0 | 11.4 | 11.3 | 11.2 | 11.1 | 11.0 | 10.9 | 10.8 | 10.7 | 10.7 | 10.6 | 10.5 |
| 70 and over | 4.4 | 3.2 | 3.3 | 4.7 | 4.7 | 5.5 | 5.8 | 4.6 | 3.7 | 3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 70-74 | 8.5 | 5.6 | 6.7 | 7.5 | 6.0 | 5.4 | 5.6 | 6.8 | 5.5 | 5.5 | 5.5 | 5.5 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 75 and over | 1.3 | 1.7 | 0.8 | 2.5 | 3.6 | 2.7 | 2.6 | 2.9 | 2.4 | 2.4 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 | 2.4 | 2.4 |


[^0]:    ${ }^{1}$ The New York Metro Region includes the following counties, by subregion: New York City subregion: Bronx, Kings, New York, Queens, Richmond Counties; Long Island subregion: Nassau \& Suffolk Counties; Mid-Hudson subregion: Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester Counties; New Jersey subregion: Bergen, Essex, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union, Warren Counties; Connecticut subregion: Fairfield, Litchfield, New Haven Counties.

[^1]:    ${ }^{2}$ See Technical Memorandum 1.1.1 for a further discussion of racial/ethnic groupings used for this study.
    ${ }^{3}$ Under the TMDI, the Labor Force Model outputs were also used as inputs to a separate Journey-to-Work Model. No comparable model is being developed for the current round of 2025 forecasts. However, journey-to-work forecasts will be produced by the Enhanced Best Practices Model developed for the TMDI project.

[^2]:    ${ }^{4}$ It should be noted that all population figures used in the calculation of Labor Force Participation Rates are based upon the Census Bureau's STF data set, whereas the data described in the section above on population inputs rely on the Bureau's Modified Age, Race, Sex (MARS) data set for 1980 and 1990. The MARS data set incorporates adjustments to the STF data in order to improve allocation by racial/ethnic group and age. However, since the Census's labor force figures rely on unadjusted STF population data, STF data were used in the calculation of Labor Force Participation Rates for the sake of consistency.

[^3]:    ${ }^{5}$ All BLS Labor Force Participation Rate estimates and projections are available at their web site: www.bs.gov/emphome.htm. Projections are discussed in some detail in a series of articles contained in the Bureau's publication, Monthly Labor Review. See in particular two articles by Howard Fullerton, Jr.: "Labor Force Participation: 75 Years of Change, 1950-98 and 1998-2025", December 1999 and "The Labor Force: Steady Growth, Changing Composition," November 1999. Both are available free of charge in Adobe Acrobat (pdf) format at the above-referenced web site.
    6 The forecasted Labor Force Participation Rates for Hispanics, Asians and Blacks were adjusted upward between 2010 and 2020 by factors ranging from 1.05 to 1.15 as the multiple of the nationally-driven subregionally-benchmarked forecasts. Thus, for the initial year of adjustment, 2010, each age/sex Labor Force Participation Rate was increased by 5\%. This adjustment was made after inspection of the national forecasts, which at the time of the TMDI forecasts held Labor Force Participation Rates constant after 2005, but which allowed modest changes of the order adopted between 1990 and 2005.

[^4]:    72020 civilian labor force forecasts were used as weights for both 2020 and 2025 since no 2025 CLF forecast was produced for the TMDI.

[^5]:    ${ }^{8}$ Definitions and sources of all data inputs are discussed in Section 1.2.

