

**Documentation for
Intercensal population estimates of the specified Hispanic origin groups
(July 1, 1991 - July 1, 1999)**

Introduction

These intercensal population files contain estimates of the resident population of specified Hispanic origin groups (i.e., Mexican, Puerto Rican, Cuban, and Other Hispanic) for the United States as of July 1, 1991, to July 1, 1999, by year, age by 5-year age group, and sex. The estimates in these files resulted from adjusting the Current Population Survey (CPS) based postcensal population estimates for specified Hispanic origin groups to the 2000 based intercensal population estimates of Hispanics (total) by year, age-group, and sex. Thus, the estimates in these files are consistent with the 2000 census. The intercensal estimates were produced by the National Center for Health Statistics (NCHS). These files were released by NCHS on November 19, 2004.

Background

The United States Census Bureau, Housing Division, has provided population estimates for specified Hispanic origin groups, including Mexican, Puerto Rican, Cuban, and other Hispanic by age by 5-year age group and sex, to NCHS starting with the data year 1989. These estimates are based on data collected by the Census Bureau in the Annual Demographic Supplement to the March Current Population Survey (CPS) which are weighted according to the 1990 census based postcensal population estimates of the Hispanic population (total) for the year. The total population estimate of the specified Hispanic origin groups is adjusted to equal the 1990 census based postcensal estimate of the Hispanic population (total) for the year. The estimates of the four Hispanic groups are used to calculate national vital rates.

As a result of the finding that the Hispanic population was substantially underestimated during the 1990s (based on a comparison of postcensal estimates based on the 1990 census and intercensal estimates based on the 2000 census) and since the Housing Division did not plan to prepare revised estimates for these groups, NCHS elected to produce intercensal estimates for the groups to calculate revised birth and fertility rates. These revised estimates have proven to be very useful and are available in "Revised Birth and Fertility Rates for the 1990s and New Rates for Hispanic Populations, 2000 and 2001," available on the Internet at: http://www.cdc.gov/nchs/data/nvsr/nvsr51/nvsr51_12.pdf

Interest has been expressed in developing intercensal estimates for males and females and for all age groups, to facilitate the revision of mortality rates for the specified Hispanic origin groups. Therefore, NCHS has applied the methodology (see "**Methodology**") used for the female populations (cited above) to produce intercensal populations for all ages (by 5-year age groups) and both sexes.

The intercensal population estimates for the specified Hispanic origin groups, 1991 to 1999, are available at <http://www.cdc.gov/nchs/about/major/dvs/popbridge/intercensal.htm>. The complete file contains national revised population estimates based on all 50 states and the District of Columbia, 1991-1999. The natality file estimates exclude New Hampshire from the national totals in 1991 and 1992. The population estimates in the natality file were used to calculate the revised birth and fertility rates for specified Hispanic origin groups. The mortality file estimates exclude these areas from the national totals: Oklahoma, New Hampshire, and New York City (Bronx, King, New York, Queens, and Richmond County, New York) in 1991; Oklahoma and New Hampshire in 1992; and Oklahoma from 1993 to 1996. These exclusions reflect the fact that the areas listed did not report Hispanic origin on their birth or death certificate in the specified years. The population estimates in the mortality file are to be used to calculate revised mortality rates for specified Hispanic origin groups.

Postcensal estimates: postcensal population estimates are estimates made for the years after a census, before the next census has been taken.

Intercensal estimates: Intercensal population estimates are estimates made for the years between consecutive censuses and incorporate information from both censuses.

Release of estimates

In response to the need of a wide range of users for revised population estimates for specified Hispanic origin groups, NCHS is making these population estimates available to the public for download at this website. NCHS is using these intercensal population estimates to calculate revised birth and fertility rates. Despite the use of the best available data and methods to produce these estimates, the methodology introduced potential errors into the estimates. For example, the percent differences between the postcensal and intercensal population estimates are the same for all of the Hispanic origin groups (that is, Mexican, Puerto Rican, Cuban, and Other Hispanic) by age and sex. This is due to the adjustment of the population estimates of the specified groups in proportion to the increase or decrease in the population estimate of Hispanics (total) between the postcensal and intercensal population estimates. These estimates may not accurately reflect the changes between the postcensal and intercensal population estimates for the subgroups.

NCHS would appreciate feedback on the usefulness of the estimates as well as notification of any problems identified. Please provide comments via e-mail to: PopEst@cdc.gov.

Data files

The intercensal population estimates for the specified Hispanic origin groups, 1991 to 1999, are available at <http://www.cdc.gov/nchs/about/major/dvs/popbridge/intercensal.htm>.

The complete file contains revised national population estimates based on all 50 states and the District of Columbia, 1991-1999.

The natality file estimates exclude from the national totals New Hampshire in 1991 and 1992. The population estimates in the natality file are used to calculate the revised birth and fertility rates for the specified Hispanic origin groups.

The mortality file estimates exclude from the national totals: Oklahoma, New Hampshire, and New York City (Bronx, King, New York, Queens, and Richmond County, New York) in 1991; Oklahoma and New Hampshire in 1992; and Oklahoma from 1993 to 1996.

Intercensal population estimates for specified Hispanic origin groups (Mexican, Puerto Rican, Cuban, and Other Hispanic) by year, 5-year age group and sex, July 1, 1991 to July 1, 1999 – Complete File (11/19/2004).

Intercensal population estimates for specified Hispanic origin groups (Mexican, Puerto Rican, Cuban, and Other Hispanic) by year, 5-year age group and sex, July 1, 1991 to July 1, 1999 – Natality File (11/19/2004)

Intercensal population estimates for specified Hispanic origin groups (Mexican, Puerto Rican, Cuban, and Other Hispanic) by year, 5-year age group and sex, July 1, 1991 to July 1, 1999 – Mortality File (11/19/2004)

Suggested citation

National Center for Health Statistics. Intercensal estimates of the July 1, 1991-July 1, 1999, United States resident population of the specified Hispanic origin groups, by year, age, sex, and Hispanic origin group, prepared by the National Center for Health Statistics. Complete File. Available on the Internet at:
ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/datasets/nvss/intercensal/intercensal_Complete.xls. November 10, 2004.

National Center for Health Statistics. Intercensal estimates of the July 1, 1991-July 1, 1999, United States resident population of the specified Hispanic origin groups, by year, age, sex, and Hispanic origin group, prepared by the National Center for Health Statistics. Natality File. Available on the Internet at:
ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/datasets/nvss/intercensal/intercensal_Natality.xls. November 19, 2004.

National Center for Health Statistics. Intercensal estimates of the July 1, 1991-July 1, 1999, United States resident population of the specified Hispanic origin groups, by year, age, sex, and Hispanic origin group, prepared by National Center for Health Statistics.

Mortality File. Available on the Internet at:

ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/datasets/nvss/intercensal/intercensal_Mortality.xls.

November 19, 2004.

Methodology

To calculate the intercensal population estimates for the specified Hispanic origin groups (i.e., Mexican, Puerto Rican, Cuban, and Other Hispanic), proportions are computed (**step 1**) based on the postcensal estimates for the Hispanic subgroups (for an example of the methodology, see table A). These postcensal estimates are based on data collected by the Census Bureau in the Annual Demographic Supplement to the March Current Population Survey (CPS) which are weighted according to the 1990 census based postcensal population estimates of Hispanics (total) for the year (see panel I of table A). The control totals for these postcensal estimates are the 1990 based postcensal estimates of the Hispanic population (total) for the year, that is, the sum of the specified Hispanic origin groups equals the population of Hispanics.

The proportions are computed for each year (1991-1999) by 5-year age group (less than 1, 1-4, 5-9, 10-14, . . . , 75-79, 80-84, 85 or more) and sex (male and female) (see panel II of table A). For example, there were 1,094,722 Hispanic males age 40-44 years in 1999 of which 683,204 are Mexican, 99,558 are Puerto Rican, 52,697 are Cuban, and 259,263 are Other Hispanic males, according to the 1999 CPS based postcensal estimates. Thus, the proportion of Hispanic males age 40-44 years in 1999 are 0.624 for the Mexican group, 0.091 for the Puerto Rican group, 0.048 for the Cuban group, and 0.237 for the Other Hispanic group. The proportions for a given year, age-group, and sex sum to 1. (The proportions used to compute the revised population estimates are not restricted to three decimals.)

The intercensal estimates for the specified Hispanic origin groups (Mexican, Puerto Rican, Cuban, and Other Hispanic) are obtained by multiplying (**step two**) the proportions for each year by 5-year age group and sex, from the 1990 based CPS population estimates of the four groups, by the 2000 based intercensal population estimates of Hispanics (total) for the same year, age-group, and sex. The intercensal estimates have rounded to the nearest whole integer. The “control totals” of these estimates are the 2000 census based intercensal estimates of Hispanics (total) for the year. That is, the sum of the intercensal estimates for the four Hispanic origin groups equals the corresponding intercensal estimate of the total Hispanic population.

The intercensal estimates of the number of Hispanic males aged 40-44 years in 1999, in the example above, was 1,124,564 (see panel III of table A). Thus, the intercensal estimates of the four Hispanic origin groups are 701,828 ($1,124,564 \cdot 0.624$) Mexican males, 102,272 ($1,124,564 \cdot 0.091$) Puerto Rican males, 54,134 ($1,124,564 \cdot 0.048$) Cuban males, and 266,330 ($1,124,564 \cdot 0.237$) Other Hispanic males (see panel IV of table A).

Table A. Example of calculation of intercensal population estimates of specified Hispanic origin groups by 5-year age groups and sex: United States, 1999

| Panel I: 1999 postcensal population estimates of specified Hispanic origin and sex group based on Current Population Survey and 1990 census ¹ | | | | | | | | | | | | | | | | | | | |
|--|--------------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Specified Hispanic origin and sex group | Under 1 year | Age | | | | | | | | | | | | | | | | | |
| | | 1-4 years | 5-9 years | 10-14 years | 15-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years | 50-54 years | 55-59 years | 60-64 years | 65-69 years | 70-74 years | 75-79 years | 80-84 years | 85 years and over |
| Mexican Male | 261,059 | 997,510 | 1,166,537 | 984,573 | 1,008,035 | 996,037 | 938,050 | 900,723 | 847,519 | 683,204 | 516,540 | 360,159 | 261,264 | 189,133 | 151,311 | 120,603 | 87,874 | 44,779 | 33,572 |
| Mexican Female | 251,204 | 985,352 | 1,116,075 | 897,933 | 908,706 | 875,033 | 860,673 | 804,502 | 736,515 | 657,939 | 486,298 | 345,156 | 271,863 | 201,773 | 174,964 | 150,958 | 97,748 | 61,881 | 55,727 |
| Puerto Rican Male | 30,919 | 128,458 | 145,357 | 135,285 | 132,731 | 114,097 | 105,402 | 105,565 | 103,801 | 99,558 | 81,060 | 67,968 | 48,186 | 42,448 | 25,210 | 23,900 | 15,078 | 10,705 | 3,736 |
| Puerto Rican Female | 29,576 | 103,007 | 124,608 | 139,303 | 148,558 | 110,189 | 106,482 | 133,857 | 132,791 | 103,480 | 87,892 | 80,817 | 50,772 | 51,658 | 46,015 | 32,163 | 23,668 | 12,805 | 8,067 |
| Cuban Male | 7,260 | 17,640 | 33,549 | 38,625 | 41,294 | 24,908 | 31,219 | 55,031 | 59,379 | 52,697 | 41,513 | 40,848 | 43,193 | 43,143 | 45,583 | 29,606 | 20,603 | 10,927 | 9,844 |
| Cuban Female | 9,027 | 36,625 | 28,899 | 34,282 | 36,152 | 33,722 | 39,415 | 49,786 | 51,231 | 45,093 | 44,731 | 42,752 | 32,741 | 54,545 | 37,168 | 32,602 | 43,071 | 23,065 | 22,641 |
| Other Hispanic Male | 68,679 | 258,314 | 309,174 | 241,660 | 263,014 | 259,786 | 244,446 | 314,024 | 317,672 | 259,263 | 179,587 | 136,249 | 83,974 | 66,793 | 50,891 | 38,745 | 26,202 | 11,825 | 16,380 |
| Other Hispanic Female | 63,781 | 218,697 | 318,838 | 267,726 | 241,870 | 276,058 | 244,267 | 296,730 | 334,508 | 263,581 | 220,030 | 183,049 | 140,270 | 80,913 | 80,991 | 61,103 | 37,001 | 27,202 | 39,216 |

| Panel II: Proportions based on 1999 postcensal estimates of specified Hispanic origin and sex groups by age ² | | | | | | | | | | | | | | | | | | | |
|--|--------------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Specified Hispanic origin and sex group | Under 1 year | Age | | | | | | | | | | | | | | | | | |
| | | 1-4 years | 5-9 years | 10-14 years | 15-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years | 50-54 years | 55-59 years | 60-64 years | 65-69 years | 70-74 years | 75-79 years | 80-84 years | 85 years and over |
| Mexican Male | 0.710 | 0.712 | 0.705 | 0.703 | 0.698 | 0.714 | 0.711 | 0.655 | 0.638 | 0.624 | 0.631 | 0.595 | 0.598 | 0.554 | 0.554 | 0.567 | 0.587 | 0.572 | 0.528 |
| Mexican Female | 0.710 | 0.733 | 0.703 | 0.670 | 0.681 | 0.676 | 0.688 | 0.626 | 0.587 | 0.615 | 0.580 | 0.530 | 0.549 | 0.498 | 0.516 | 0.545 | 0.485 | 0.495 | 0.444 |
| Puerto Rican Male | 0.084 | 0.092 | 0.088 | 0.097 | 0.092 | 0.082 | 0.080 | 0.077 | 0.078 | 0.091 | 0.099 | 0.112 | 0.110 | 0.124 | 0.092 | 0.112 | 0.101 | 0.137 | 0.059 |
| Puerto Rican Female | 0.084 | 0.077 | 0.078 | 0.104 | 0.111 | 0.085 | 0.085 | 0.104 | 0.106 | 0.097 | 0.105 | 0.124 | 0.102 | 0.127 | 0.136 | 0.116 | 0.117 | 0.102 | 0.064 |
| Cuban Male | 0.020 | 0.013 | 0.020 | 0.028 | 0.029 | 0.018 | 0.024 | 0.040 | 0.045 | 0.048 | 0.051 | 0.067 | 0.099 | 0.126 | 0.167 | 0.139 | 0.138 | 0.140 | 0.155 |
| Cuban Female | 0.026 | 0.027 | 0.018 | 0.026 | 0.027 | 0.026 | 0.032 | 0.039 | 0.041 | 0.042 | 0.053 | 0.066 | 0.066 | 0.135 | 0.110 | 0.118 | 0.214 | 0.185 | 0.180 |
| Other Hispanic Male | 0.187 | 0.184 | 0.187 | 0.173 | 0.182 | 0.186 | 0.185 | 0.228 | 0.239 | 0.237 | 0.219 | 0.225 | 0.192 | 0.196 | 0.186 | 0.182 | 0.175 | 0.151 | 0.258 |
| Other Hispanic Female | 0.180 | 0.163 | 0.201 | 0.200 | 0.181 | 0.213 | 0.195 | 0.231 | 0.267 | 0.246 | 0.262 | 0.281 | 0.283 | 0.240 | 0.239 | 0.221 | 0.184 | 0.218 | 0.312 |

| Panel III: 1999 intercensal population estimates of Hispanics (total) by age and sex based on 2000 census ³ | | | | | | | | | | | | | | | | | | | |
|--|--------------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Sex | Under 1 year | Age | | | | | | | | | | | | | | | | | |
| | | 1-4 years | 5-9 years | 10-14 years | 15-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years | 50-54 years | 55-59 years | 60-64 years | 65-69 years | 70-74 years | 75-79 years | 80-84 years | 85 years and over |
| Male | 386,749 | 1,461,053 | 1,784,479 | 1,539,282 | 1,631,899 | 1,775,826 | 1,760,280 | 1,627,482 | 1,421,140 | 1,124,564 | 836,973 | 624,936 | 432,589 | 335,753 | 258,811 | 196,386 | 128,176 | 63,619 | 46,367 |
| Female | 368,982 | 1,396,377 | 1,708,987 | 1,471,463 | 1,437,096 | 1,471,971 | 1,502,244 | 1,423,280 | 1,305,825 | 1,078,833 | 843,840 | 658,272 | 479,192 | 389,617 | 319,984 | 261,053 | 181,613 | 106,632 | 96,170 |

| Panel IV: 1999 intercensal population estimates of specified Hispanic origin and sex groups based on Current Population Survey and 2000 census | | | | | | | | | | | | | | | | | | | |
|--|--------------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Specified Hispanic origin and sex group | Under 1 year | Age | | | | | | | | | | | | | | | | | |
| | | 1-4 years | 5-9 years | 10-14 years | 15-19 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years | 50-54 years | 55-59 years | 60-64 years | 65-69 years | 70-74 years | 75-79 years | 80-84 years | 85 years and over |
| Mexican Male | 274,421 | 1,039,583 | 1,258,092 | 1,082,415 | 1,138,358 | 1,268,105 | 1,251,770 | 1,065,851 | 906,707 | 701,828 | 528,069 | 371,889 | 258,854 | 185,941 | 143,449 | 111,272 | 75,211 | 36,413 | 24,502 |
| Mexican Female | 262,141 | 1,023,995 | 1,200,789 | 986,583 | 977,991 | 994,611 | 1,033,661 | 891,162 | 766,315 | 663,313 | 489,132 | 348,597 | 262,838 | 193,987 | 165,120 | 142,357 | 88,106 | 52,808 | 42,652 |
| Puerto Rican Male | 32,502 | 133,876 | 156,765 | 148,729 | 149,891 | 145,263 | 140,652 | 124,918 | 111,050 | 102,272 | 82,869 | 70,182 | 47,741 | 41,732 | 23,900 | 22,051 | 12,905 | 8,705 | 2,727 |
| Puerto Rican Female | 30,864 | 107,047 | 134,066 | 153,056 | 159,885 | 125,247 | 127,884 | 148,276 | 138,164 | 104,325 | 88,404 | 81,623 | 49,087 | 49,665 | 43,426 | 30,330 | 21,333 | 10,927 | 6,174 |
| Cuban Male | 7,632 | 18,384 | 36,182 | 42,463 | 46,633 | 31,712 | 41,660 | 65,120 | 63,526 | 54,134 | 42,440 | 42,178 | 42,795 | 42,415 | 43,215 | 27,315 | 17,634 | 8,885 | 7,184 |
| Cuban Female | 9,420 | 38,061 | 31,093 | 37,667 | 38,908 | 38,330 | 47,337 | 55,149 | 53,304 | 45,461 | 44,992 | 43,178 | 31,654 | 52,440 | 35,077 | 30,744 | 38,822 | 19,683 | 17,329 |
| Other Hispanic Male | 72,194 | 269,209 | 333,439 | 265,675 | 297,018 | 330,747 | 326,198 | 371,593 | 339,857 | 266,330 | 183,595 | 140,687 | 83,199 | 65,666 | 48,247 | 35,747 | 22,426 | 9,616 | 11,954 |
| Other Hispanic Female | 66,558 | 227,274 | 343,039 | 294,158 | 260,312 | 313,783 | 293,362 | 328,693 | 348,042 | 265,734 | 221,312 | 184,874 | 135,613 | 93,525 | 76,361 | 57,621 | 33,351 | 23,214 | 30,015 |

1 Postcensal estimates based on unpublished tabulations prepared by the Housing and Household Economic Statistics Divisions, U.S. Bureau of the Census.

2 The proportions used to compute the revised population estimates are not restricted (rounded) to three decimals.

3 National Center for Health Statistics. Bridged-race intercensal estimates of the July 1, 1999, resident population of the United States by county, 5-year age groups, bridged-race, Hispanic origin, and sex. Released April 15, 2003. Available