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# Variable: Population by age [ID# 102]

***Basic Demographics***

**Description**:

Total Age Distribution, percent change and growth rate by 5 year age cohorts (varying increments)as shown in Census 2010 SF1 P12 data, and Census 2000 SF1 P12 data.

School Age Population and Change in School age population are extracted/ calculated from the 2010 table and the 2000 table.

Senior population is extracted from 2010 table, and percent is calculated using 2010 total population.

**Source\_Name:** 2010 US Census Bureau, SF1 100% data, table P12

**Source\_Date:** 2010

**Source\_URL:**  <http://factfinder2.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>

**Source\_Name:** 2000 US Census Bureau, SF1 100% data, table P012

**Source\_Date:** 2000

**Source\_URL:** <http://factfinder2.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>

**Geography**: Municipality, Aggregated to RPC

**Methodology***:*

Total Age Distribution, percent change and growth rate by 5 year age cohorts: Download municipal data from the 2000 and 2010 census (save raw data for municipalities). Aggregate the data to derive the total regional population by age cohort for 2000 and 2010.

Additional Fields to be included in the table:

* Municipal FIPS code
* County Name
* County FIPS code
* RPC Name
* RPC Code #

Then, using the 2000 and 2010 total population by cohorts, calculate the numerical and percent change for the decade and the annualized growth rate as follows. Some cohorts will need to be combined to arrive at the 5-year increments:

|  |  |  |  |
| --- | --- | --- | --- |
| **RPC Summary Table** | **2000** | **2010** | **2000 to 2010 – Change in Total Population** |
| **Male** | **Female** | **Total** | **Male** | **Female** | **Total** | **# Change** | **% Change** |
| Total Population: | X | Y | Z =X+Y | A | B | C=A+B | M =C-Z | =M/Z |
| Under 5 years |   |   |   |   |   |   |   |   |
| 5 to 9 years |   |   |   |   |   |   |   |   |
| 10 to 14 years |   |   |   |   |   |   |   |   |
| 15 to 17 years |    |    |    |    |    |    |    |    |
| 18 & 19 years |
| 20 years |     |     |     |     |     |     |     |     |
| 21 years |
| 22 to 24 years |
| 25 to 29 years |   |   |   |   |   |   |   |   |
| 30 to 34 years |   |   |   |   |   |   |   |   |
| 35 to 39 years |   |   |   |   |   |   |   |   |
| 40 to 44 years |   |   |   |   |   |   |   |   |
| 45 to 49 years |   |   |   |   |   |   |   |   |
| 50 to 54 years |   |   |   |   |   |   |   |   |
| 55 to 59 years |   |   |   |   |   |   |   |   |
| 60 & 61 years |    |  |   |    |   |   |    |    |
| 62 to 64 years |
| 65 & 66 years |    |    |    |    |    |    |    |    |
| 67 to 69 years |
| 70 to 74 years |   |   |   |   |   |   |   |   |
| 75 to 79 years |   |   |   |   |   |   |   |   |
| 80 to 84 years |   |   |   |   |   |   |   |   |
| 85 years and over |   |   |   |   |   |   |   |   |

Raw Data is separated by RPC on separate sheets, as Excel cannot accommodate enough columns for all municipalities to fit on one sheet. RPC Summary Tables and State Summary Table are on separate sheets.

School Age Population and Percent Change in School Age Population: Total School age population (ages 5-17) as reported by 2010 SF1 P12 data. Percentage created by subtracting 2000 population from 2010 population and dividing by the 2000 population. Must aggregate age groups 5 to 9, 10-14, and 15-17 for both male and female. This data is added to the bottom of the Population by Age table.

Senior Population and Percent Population over 65 Years Old: Population 65 and over as reported in Age Distribution table, 2010 Census SF1 table P12. Need to aggregate several age categories 65 and over, and also male and female. To calculate percent divide by total population. Total population is also available via 2010 Census SF1 table P1. This data is added to the bottom the Population by Age table.

**Documentation Author**: J. Czysz, NRPC; C. Tufts, CNHRPC

# Variable: Fertility [ID# 103]

**Description**: Number of annual births per 1000 women of reproductive age (15-44)

***Basic Demographics***

**Source\_Name**: NH Department of Health and Human Services, NH Vital Records

**Source\_Date**: 2003-2007

**Source\_URL**: <http://nhvrinweb.sos.nh.gov/Default.aspx>

**Geography**: Municipality

**Methodology***:*

1. Go to the Division of Vital Records Administration website: <http://nhvrinweb.sos.nh.gov/Default.aspx>. Users must first register to use the database, log in and accept the privacy policy before accessing data. A link to the registration page can be found at the bottom of the menu of options on the left.
2. Select data source from menu of options on left: Birth 🡪 Birth Rate
3. Then chose the following:

1. Export table into a csv comma delimited file, and import into Excel
2. Add a new column to compute the average over the 5 years

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 2003 | 2004 | 2005 | 2006 | 2007 | 03-07 |
| Mother Residence City | ABirths Per 1,000 | BBirths Per 1,000 | CBirths Per 1,000 | DBirths Per 1,000 | EBirths Per 1,000 | ((A-E)/5)Average Births |

1. Additional Fields to be included in the table not shown above:
	* Municipal FIPS code
	* County Name
	* County FIPS code
	* RPC Name
	* RPC Code #

 **Documentation Author**: C. Tufts, CNHRPC; M. Monahan, CNHRPC

# Variable: School Enrollment [ID# 104]

**Description**: Total school enrollment by district by year and by school level, 2002/03 academic year through the 2011-2012 academic year. Also change in enrolment over 10 year period.

***Basic Demographics***

**Source\_Name**: NH Department of Education, Enrollments in New Hampshire Public Schools

**Source\_Date**: April 1, 2002-February 8, 2012

**Source\_URL**: <http://www.education.nh.gov/data/attendance.htm>

**Geography**: NH School Districts and School Administrative Units

**Methodology***:*

Tables of school enrollment by district are available for download in Excel or PDF format at the NH Department of Education website. Enrollment is available by year for the past 10 years and by age group. To download data, please follow:

1. Go to <http://www.education.nh.gov/data/attendance.htm> and look for the table titled “School Administrative Unit Enrollments”. Download spreadsheets from 2002/03 academic year through the 2011-2012 academic years. Spreadsheets can be downloaded as Microsoft Excel Worksheets.

2. Combine spreadsheets as shown in the sample table. For simplicity, the sample only shows the 2010-2011 and 2011-2012 academic years. Note that there are districts in SAUs 14, 21, 27, 35, 38, 43, 51, 63 that are added or removed, and new SAUs are created over the reporting period. Also, additions and changes to charter schools are frequent.

3. Add columns for Numeric Change and Percent Change to the 2011-20012 academic year columns only, as shown in the sample.

RPC and FIPS codes are not included because SAU and district coverage areas do not necessarily align with municipal boundaries. A map of SAU boundaries can be found here: <http://www.education.nh.gov/data/documents/sau_map.pdf>

|  |  |  |
| --- | --- | --- |
| SAU/District | 2011 | 2012 |
| Preschool | Kindergarten | Elementary | Middle | High | Total | Preschool | Numeric Change from 2003 | % Change from 2003 | Kindergarten | Numeric Change from 2003 | % Change from 2003 | Elementary | Numeric Change from 2003 | % Change from 2003 | Middle | Numeric Change from 2003 | % Change from 2003 | High | Numeric Change from 2003 | % Change from 2003 | 2012 Totals | Total Num. Change 03 to12 | % Change 2003 to 2012 |
| District |   |   |   |   |   |  |   | P2012-P2003 | ((P2012-P2003)/P2003)\*100 |   | K2012-K2003 | ((K2012-K2003)/K2003)\*100 |   | E2012-E2003 | ((E2012-E2003)/E2003)\*100 |   | M2012-M2003 | ((M2012-((M2003)/M2003)\*100 |   | H2012-H2003 | (H2012-((H2003)/H2003)\*100 |  | T2012-T2003 | ((T2012-T2001)/T2003)\*100 |
| District |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Total SAU # | ∑ | ∑ | ∑ | ∑ | ∑ | ∑ | ∑ |  |   | ∑ |   |   | ∑ |   |   | ∑ |   |   | ∑ |   |   | ∑ |   |   |

 **Documentation Author**: C. Tufts CNHRPC; M. Monahan CNHRPC