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# Variable: Population-historic [ID# 101]

***Basic Demographics***

**Description**: Total

**Source\_Name**: U.S. Census, Population of NH Towns and Counties, 1960-2010

**Source\_Date**: 2011

**Source\_URL**: <http://www.nh.gov/oep/programs/DataCenter/2010Census/documents/NH-POP-60-10.xls>

**Geography**: Municipality, Aggregated to RPC

**Methodology***:*

Totals and Growth

Present data by municipality, aggregated by RPC:

1. Download Excel file, add columns and enter county and RPC for each municipality.
2. Add column for 2000-2010 Annualized Growth Rate and compute for each municipality as follows:

R = (((P2010/ P2000)^(1/n))-1)\*100

Where:

*r = annualized growth rate*

P2000 is the 2000 total population

P2010 is the 2010 total population

*n = number of years elapsed, here n=10*

1. Sort by RPC and calculate the total population for each RPC for each year (1960-2010), the total numeric change 2000-2010 for the region (= P2010 -P2000), regional Percent Change (=((P2010-P2000)/P2000)\*100) and Annualized Growth Rate (see above for formula).
2. Suggested to create line charts of each region’s historic total population 1960-2010 for presentation in regional plans.

Additional Fields to be included in the table:

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

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

# 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/bkmk/table/1.0/en/DEC/10_SF1/P12/0400000US33.06000>

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

**Source\_Date:** 2000

**Source\_URL:** <http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/00_SF1/P012/0400000US33.06000> <http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/00_SF1/P012/0400000US33.06000>

**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). Add the male and female populations together to get the total municipal population by age cohort. Then, 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 |  |  |  |  |  |  |  |  |

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. The tables can be downloaded via the link above.

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. The tables can be downloaded via the link above.

**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

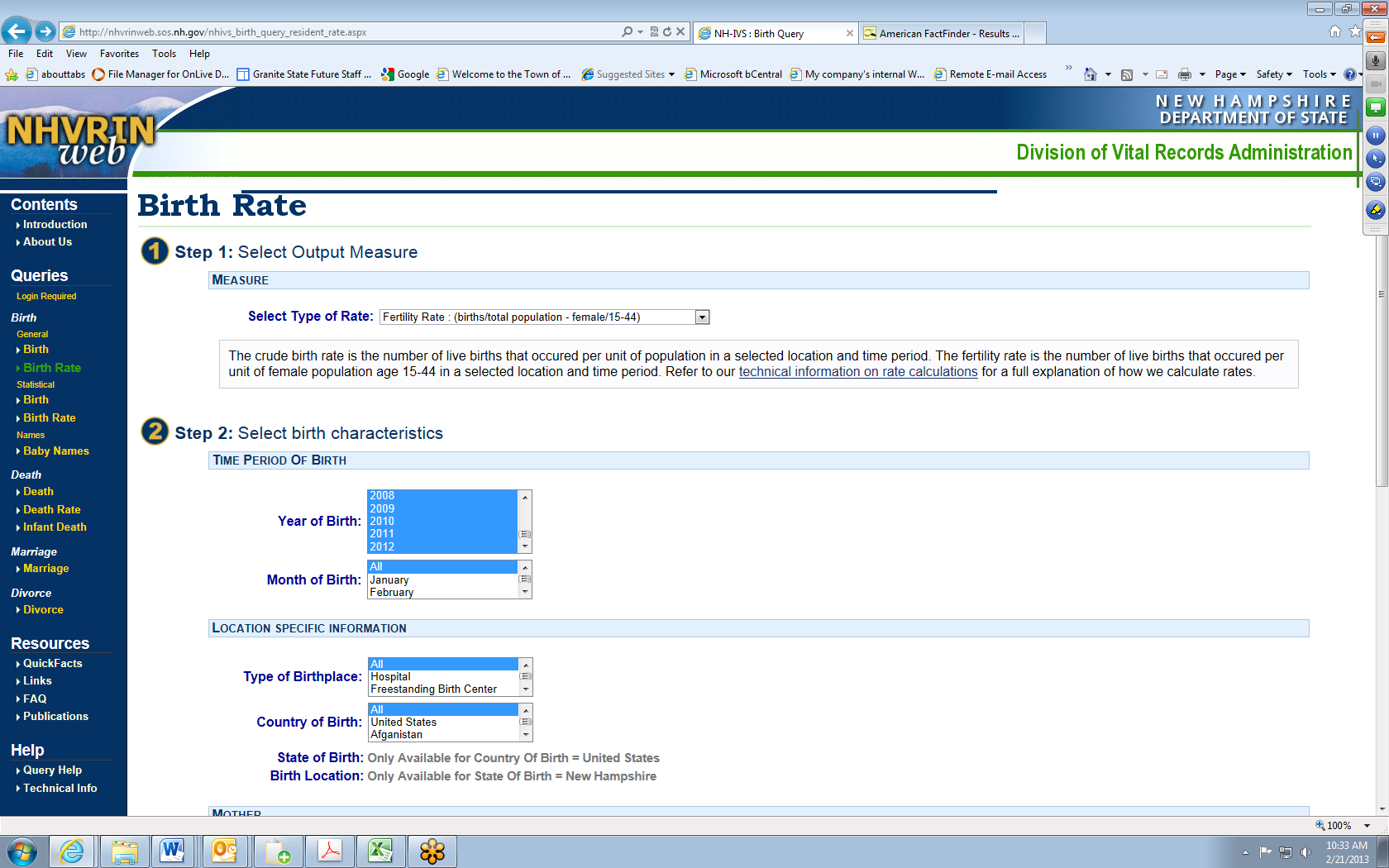
**Source\_Date**: 2003-2007

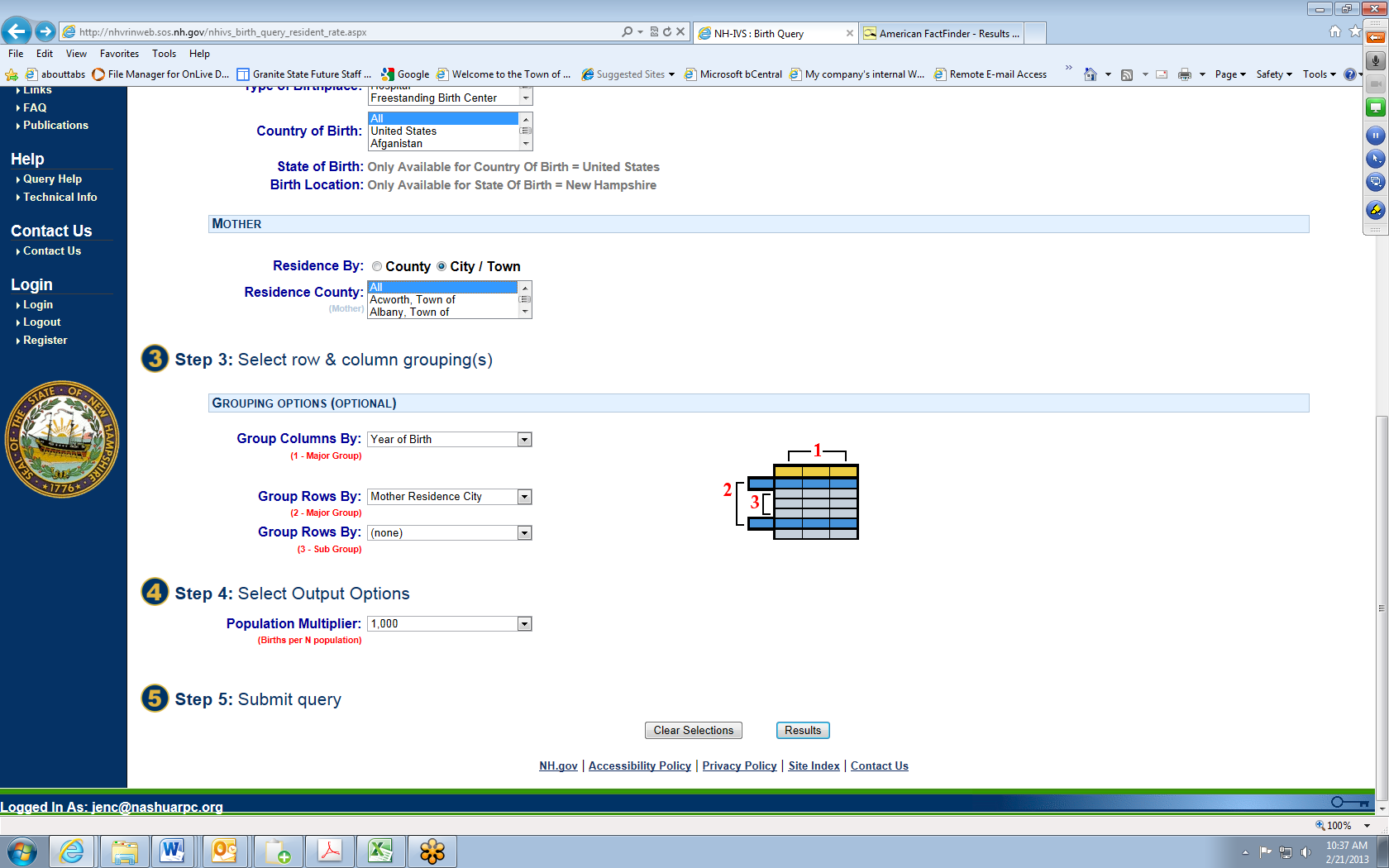
**Source\_URL**: <http://nhvrinweb.sos.nh.gov/Default.aspx>

**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 | A  Births Per 1,000 | B  Births Per 1,000 | C  Births Per 1,000 | D  Births Per 1,000 | E  Births 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

**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.

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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

# Variable: Race [ID# 105]

***Basic Demographics***

**Description**: Percent total population by Race

**Source\_Name**: 2010 U.S. Census, via NH Office of Energy and Planning

**Source\_Date**: 2010

**Source\_URL**: <http://www.nh.gov/oep/programs/DataCenter/2010Census/documents/race_MCD-2010.xls>

**Geography**: Municipality

**Methodology***:*

Totals and percent of total. All data is already tabulated by municipality, need to add RPC field to Excel file, resort, and aggregate by region. Data would be more meaningful to display as percent of total population.

Fields to be included in the table:

* Municipal FIPS code
* County Name
* County FIPS code
* RPC Name
* RPC Code #
* Total Population
* White - Total and Percent of Total Population
* Black or African American - Total and Percent of Total Population
* American Indian and Alaska Native - Total and Percent of Total Population
* Asian Native Hawaiian and Other Pacific Islander - Total and Percent of Total Population
* Some Other Race - Total and Percent of Total Population
* Two or More Races - Total and Percent of Total Population
* Hispanic or Latino (of any race) - Total and Percent of Total Population

**Documentation Author**: J. Czysz, NRPC

# Variable: Net Migration [ID# 106]

***Basic Demographics***

**Description**: Net # of persons moving into or out of each municipality and region.

**Source\_Name**: 2010 U.S. Census, SF1 100 % Data, Table P1

**Source\_Date**: 2010

**Source\_URL**: <http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_SF1/P1/0400000US33.06000>

**Source\_Name**: 2000 U.S. Census, SF1 100 % Data, Table P001

**Source\_Date**: 2000

**Source\_URL**: <http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/00_SF1/P001/0400000US33.06000>

**Source\_Name**: Births – Total # by municipality 2000-2009

**Source\_Date**: 2012

**Source\_URL**: <http://nhvrinweb.sos.nh.gov/Default.aspx> (registration and login required)

**Source\_Name**: Deaths – Total # by municipality 2000-2009

**Source\_Date**: 2012

**Source\_URL**: Data must be special requested from NH DHHS to obtain the total number NH Resident deaths by municipality. The state total annual deaths may be obtained from the same database as births.

**Geography**: Municipality, Aggregated to RPC

**Methodology***:*

Download 2000 and 2010 total population by municipality

To Download all births from 2000 to 2010, go to the New Hampshire Vital Records Information Network Web Query site, select Births: General: Birth from the list of Queries on the left. Then in the step by step selection process - select Population: NH Residents; year of birth 2000-2009; month of birth: all; type of birthplace: all; Country of Birth: all; Mother Race and Ethnicity: any; Age: all; Education: all; Residence: city/town; residency county: all; Father Race and Ethnicity: any, age all, education all; Select All for Mother Married, Infant Weight and Sex, and Plurality. Grouping Options: Columns by Year of Birth, Rows by Mother Residence City. Then click Results. Export to Excel and Sum the total number of births from 200 to 2009 by municipality.

The 10 year total municipal net migration is calculated as the total 2010 population for the selected geography minus the 2000 population and natural population change, where the natural population change is the total number of births that occurred between the two censuses minus the total number of deaths for the time period. More simply, it is calculated as follows:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Community | A  2000 Population | B  2010 Population | C  2000-2009 Births | D  2000-2009 Deaths | E  2000-2009 Natural Population Change | Total Net Migration |
| Muni’s | # | # | # | # | = C - D | = B – (A+E) |
| Region |  |  |  |  |  |  |

This process could be repeated using the annual population estimates along with annual birth and death data, however, given that the population between Censuses is only an estimate, the net migration rate would not be reliable for municipalities.

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**: J. Czysz, NRPC

# Variable: Projected Population [ID# 107]

***Basic Demographics***

**Description**: Total and growth rate

**Source\_Name**: NH Population Projections, NH’s RPCs (RLS Demographics, Inc.)

**Source\_Date**: Under development – expected spring 2013

**Source\_URL**: **Add Source When Available**

**Geography**: NH, Counties and Municipalities

**Methodology***:*

Projections are currently under development and being coordinated by CNHRPC. The final projections will have total populations for the state, counties and municipalities. Projections will be tabulated using the cohort component method at the county level and aggregated to create the state total projection. To generate the municipal projections of total population, the consultant will distribute the county projected growth to municipalities using a yet to be finalized methodology. Likely, this process will begin by distributing to each municipality a share of the total growth based on its share of the county population or historic county population change and adjusting to reflect known conditions that may impact or change that rate of growth. Municipal projections will not be available by age cohort.

Once the projections are complete, the total projected population included in regional plans should be by municipality and aggregated to the RPC total. Totals will be from 2010-2040 and at five year increments. Percent Change (%) is calculated as: ((P2040-P2010)/P2010)\*100; where P2040 is the Total Population in 2040 and P2010 is the Total Population in 2010. The 2010 Population is derived from the 100% count 2010 US Census and 2040 Population from the projections. Annualized Growth Rate is r% = (((F/P)^(1/n))-1)\*100 Where:

r = annualized growth rate

F= Future or projected total, here F= P2040

P=Present, current population, here P = P2010

n = number of years between F and P, here n=30

Additional Fields to be included in the data not indicated above:

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

**Documentation Author**: J. Czysz, NRPC

# Variable: Housing Units Supply-historic [ID# 108]

***Basic Demographics***

**Description**: Total and growth rate

**Source\_Name**: 2010 U.S. Census, SF1-100% Data, Table H1

**Source\_Date**: 2010

**Source\_URL**: <http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_SF1/H1/0400000US33.06000>

**Source\_Name**: 2000 U.S. Census, SF1-100% Data, Table H001

**Source\_Date**: 2000

**Source\_URL**: <http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/00_SF1/H001/0400000US33.06000>

**Geography**: Municipality, Aggregated to RPC

**Methodology***:*

Totals and Growth

Present data by town:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Community | Total Dwelling Units | | # Change 2000 - 2010 | % Change 2000-2010 |
| 2000 | 2010 |
| Muni’s | H2000 | H2010 | = H2010 -H2000 | ((H2010-H2000)/H2000)\*100 |
| Region Totals |  |  |  |  |

H2000 is the total number of dwelling units downloaded from the 2000 U.S. Census, SF1-100% Data, Table H001, by municipality and aggregated by RPC.

H2010 is the total number of dwelling units downloaded from the 2010 U.S. Census, SF1-100% Data, Table H1, by municipality and aggregated by RPC.

% Change 2000-2010 = ((H2010-H2000)/H2000)\*100

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**: J. Czysz, NRPC

# Variable: Housing Units Supply-projected [ID# 109]

***Basic Demographics***

# 

**Description**: Total and Growth Rate

**Source\_Name**: 1980 U.S. Census, SF1-100% Data

**Source\_Date**: 2010

**Source\_URL**: <ftp://ftp2.census.gov/census_1980/>

**Source\_Name**: 2010 U.S. Census, SF1-100% Data, Table H1

**Source\_Date**: 2010

**Source\_URL**: <http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_SF1/H1/0400000US33.06000>

**Geography**: Municipality, Aggregated to RPC

**Methodology***:*

Step 1- Calculate the Change in Total Dwelling Units from 1980 to 2010

See columns A-C in table below table below for details.

Step 2- Calculate the Average 5-year Net Increase of Housing Units:

Divide the total # of new units added between 1980 and 2010 by 6 (there are 6- five year intervals between 1980 and 2010) to derive the average historical number of new housing units created within a five year interval. (Column D in the table below)

Step 3- Calculate the 5-year Total Figures and Projections:

Starting with the2010 U.S. Census count of total dwelling units per municipality in the first column, the projected total is equal to the previous years’ total plus the projected net increase for the previous 5-years. For example, the 2015 projected total number of dwelling units is equal to the 2010 total plus the 5-year Net Increase. Continue process through to 2040 – regions can then limit or select their projection horizon as appropriate. Aggregate regional projections to the RPC level and total the projections at the RPC level. To do so, it would first be easiest to include fields for RPC and County for each Municipality, then sort by RPC and aggregate.

Additional Fields to be included in the table not shown below:

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | Continue process through to 2040 – regions can then limit or select their projection horizon as appropriate. |
| Community | Total Housing Units 1980 | Total Housing Units 2010 | # Change 1980 - 2010 | Average 5 year net increase | Projected Housing Units 2015 | Projected Housing Units 2020 | Projected Housing Units 2025 |
| Muni’s | # | # | =B-A | =C/6 | =B+D | =E+D | =F+D |
| Region Totals | Σ rows above | Σ rows above | Σ rows above | Σ rows above | Σ rows above | Σ rows above | Σ rows above |

**A Word of Caution:** These are rough projections based on the assumption that the housing unit production will continue at the same rate as occurred over the past 30 years. For some parts of the state this may be optimistic, for others it may be pessimistic. The future need for housing units should also consider projected population and employment levels to best project *demand*.

**Documentation Author**: J. Czysz, NRPC

# Variable: Undeveloped Land Protected From Development [ID# 201]

**Description**: Percent of municipality’s land area conserved/protected as undeveloped.

***Land Use***

**Source\_Name**: GRANIT Conservation and Protected Lands\*

**Source\_Date**: November 8, 2012

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=consnh>

**Source\_Name**: GRANIT New Hampshire Political Boundaries

**Source\_Date:** April 14, 2009

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=pb>

**Source\_Name**: New Hampshire Hydrography Dataset – NHDArea and NHDWaterbody

**Source\_Date:** January, 2006

**Source\_URL**: <http://www.granit.sr.unh.edu/cgi-bin/nhsearch?dset=nhhd/nh>

**Geography**: Municipality

**Methodology***:*

\*Note – Regional Planning Commissions may add additional lands not in GRANIT.

In GIS, apply a definition query to NHDWaterbody to select only lakes/ponds and reservoirs greater than 10 acres in size (or 0.0404686 km2). Perform a clip operation on Political Boundaries using both NHDArea and NHDWaterbody – this will clip out public water areas in each municipality, leaving only the land area. Calculate the acreage of the land area in each municipality. Add a field to the original Political Boundaries and transfer the land area acreage from the clipped file field to the Political Boundaries field.

Perform a clip operation on Conservation and Public Lands using both NHDArea and NHDWaterbody – this will clip out public water areas in the Conservation and Public Lands data, leaving only the land area. Query the conservation lands data set on LEVEL = 1, 2, or 3 to extract features with appropriate protection levels. Intersect the Conserved & Public Lands data and the Political Boundaries shapefile. Calculate the acreage of conservation land using Calculate Geometry in the attribute table. Summarize the area of land conserved by town.

In Excel, calculate percentage of town land area conserved by dividing conserved acres into total town land area and multiplying by 100.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A | B | C | D | E | F |
| Municipality | FIPS\_ID | RPC\_ID | Cons. Land Acreage | Town Land Acreage | %Conserved |
|  |  |  |  |  | = (D/E)\*100 |

**Documentation Author**: R. Ruppel, UVLSRPC**Variable: Land in Current Use** [ID# 202]

**Description**: Land enrolled in Current Use by Category, acreage summarized by municipality.

***Land Use***

**Source\_Name**: Current Use Report

**Source\_Date**: 2000, 2010, 2011

**Source\_URL**: <http://www.revenue.nh.gov/munc_prop/current_use/reports.htm>; 2000 data provided in Excel spreadsheet from NH Department of Revenue Adminstration

**Geography**: Municipality

**Methodology***:*

Acreages are reported by municipality in five categories: farm land, forest land, forest land with documented stewardship, unproductive and wetland.

From the Current Use reports from 2000, 2010 and most recent year (2011), the relevant fields should be compiled into an Excel spreadsheet, as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A | B | C | D | E | F |
| Municipality | FIPS\_ID | RPC\_ID | Total Land Acres (2000) | Acres in Current Use  (2000) | # of Total Acres in CU (2000) |
|  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| G | H | I | J | K | L |
| Farm Land (2000) | Forest Land (2000) | Forest Land with Documented Stewardship (2000) | Unproductive (2000) | Wetland (2000) | <Repeat for 2010, 2011> |
|  |  |  |  |  |  |

**Documentation Author**: R. Ruppel, UVLSRPC

# Variable: Change in Land Cover, 2001-2006 [ID# 203]

***Land Use***

**Description**: Change in Land Cover, 2001-2006, acreage summarized by municipality.

**Source\_Name**: National Land Cover Dataset 2006

**Source\_Date**: 2011

**Source\_URL**: <http://www.mrlc.gov/nlcd06_data.php>

**Source\_Name**: National Land Cover Datase 2001

**Source\_Date**: 2011

**Source\_URL**: <http://www.mrlc.gov/nlcd01_data.php>

**Source\_Name**: GRANIT New Hampshire Political Boundaries

**Source\_Date:** April 14, 2009

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=pb>

**Geography**: Regional Planning Commission

**Methodology***:*

In GIS, use the Political Boundaries layer to create a new shapefile of RPC boundaries.

Run the below processes for each RPC in NH, once for the 2001 land cover data, and once for the 2006 data. Name the resulting raster datasets to include the year and RPC number, e.g. 01LC1 would be an appropriate title for the 2001 land cover dataset displaying only the area of North Country Council.

To create a land cover change raster for each RPC’s region:

1. Add image (NLCD raster) to ArcMap.
2. Zoom into the area of interest (in this case, each RPC).
3. Export area of interest to GRID

Extent = Data Frame (Current)

Spatial Reference = Raster Data (Original)

Rename the file name and select a desired output file format (i.e. GRID)

Click Save. Ignore the “Failed to Save Raster Dataset” message. Click OK.

1. In ArcCatalog, go to ArcToolbox, Data Management Tools, Raster, Raster Properties, Build Raster Attribute Table.

Input grid file

Check “Overwrite”

Run

1. In ArcCatalog, go to ArcToolbox, Data Management Tools, Joins, Join Field.

Input dataset = grid file

Input join field = value

Join table = (Source NLCD image)

Output join field = value

Join fields

Check – Red, Green, Blue, Opacity, Land cover

Run

When Steps 1-5 have been completed for the 2001 and 2006 National Land Cover Datasets, there will be 18 raster files, two for each RPC.

Open Map Algebra🡪 Raster Calculator, and use the formula:

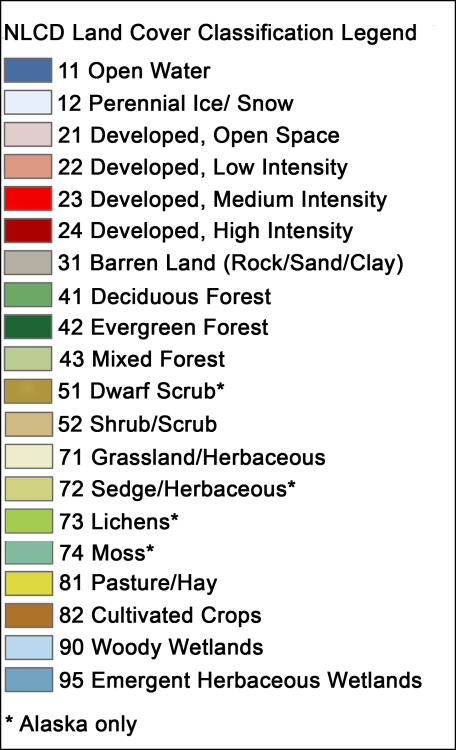
* (01LC\*100)+ 06LC.
* 01LC represents the 2001 NLCD for a specific RPC.
* 06LC represents the 2006 NLCD for that same RPC.
* The resulting dataset should include four digit values, where the first two digits are the NLCD value in 2001 and the second two digits are equal to the NLCD value in 2006.

Extract each 0106change raster data set by mask using the appropriate RPC.

Project resulting raster files to NAD\_1983\_StatePlane\_New\_Hampshire\_FIPS\_2800\_Feet

To calculate the change in acreage, use formula (COUNT\*30²)\* 0.00024711

If generalized land cover change is necessary, reclassify values using Spatial Analyst Tools🡪Reclass🡪Reclassify.

Export table for use in Excel. Summarize by series (1\_, 2\_, 3\_, 4\_, 7\_, 8\_, 9\_), e.g. forest to developed, agriculture to forest, etc.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | C | D | E |
| RPC\_ID | Change from 1 to 2 | Change from 1 to 3 | Change from 1 to 4 | etc. |
|  |  |  |  |  |

For more information on the land cover classifications used by the NLCD, refer to <http://www.mrlc.gov/nlcd06_leg.php>.

**Documentation Author**: R. Ruppel, UVLSRPC

# Variable: Key Destinations within ½ mile of Community Center Areas [ID# 204]

***Land Use***

**Description**: Percentage of Key Destinations located within ½ mile of Community Center Areas, summarized by municipality. (Note - ½ mile represents a “walkable” distance, per NHDES recommendation.)

**Source\_Name**: Key Destinations

**Source\_Date**: 2006

**Source\_URL**: <http://www.granit.unh.edu/data/search?sterm3=destinations&fieldname3=themekey>

**Source\_Name**: Community Anchor Institutions

**Source\_Date**: 2012

**Source\_URL**: via GRANIT staff from NH Broadband Mapping and Planning Program

**Source\_Name**: Community Center Areas

**Source\_Date:** 2006

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=communitycenterareas&#47;nh>

**Geography**: Municipality

**Methodology***:*

In GIS, update Key Destinations shapefile based on 2012 Community Anchor Institutions data for K-12 schools, higher education facilities, municipal offices, libraries, community facilities, athletic/recreation facilities, and hospitals.

In GIS, query by location to select key destinations located within ½-mile of Community Center Areas. Add a text field to the Key Destinations attribute table, name it “In\_CCA” and populate selected records with a “Y.”

In Excel, open both polygon and point Key Destinations attribute table and combine into one spreadsheet. Calculate % of Key Destinations located within Community Center Areas (i.e. Key Destinations with a “Y” in “IN\_CCA” field) for each municipality.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A | B | C | D | E | F |
| Municipality | FIPS\_ID | RPC\_ID | % Key Destinations in ½ Mile of CCAs | # Key Destinations in ½ Mile of CCAs | Area (mi2) of Community Center Areas + ½ Mile |
|  |  |  |  |  |  |

**Documentation Author**: R. Ruppel, UVLSRPC

# Variable: Population Density [ID# 205]

***Land Use***

**Description**: Population Density by municipality, persons per square mile

**Source\_Name**: U.S. Census, Population of NH Towns and Counties, 1960-2010

**Source\_Date:** March 31, 2011

**Source\_URL**: <http://www.nh.gov/oep/programs/DataCenter/2010Census/index.htm>

**Source\_Name**: GRANIT New Hampshire Political Boundaries

**Source\_Date:** April 14, 2009

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=pb>

**Source\_Name**: New Hampshire Hydrography Dataset – NHDArea and NHDWaterbody

**Source\_Date:** January, 2006

**Source\_URL**: <http://www.granit.sr.unh.edu/cgi-bin/nhsearch?dset=nhhd/nh>

**Geography**: Municipality

**Methodology***:*

In GIS, apply a definition query to NHDWaterbody to select only lakes/ponds and reservoirs. Perform a clip operation on Political Boundaries using both NHDArea and NHDWaterbody – this will clip out water areas in each municipality, leaving only the land area. Calculate the acreage of the land area in each municipality. Add a field to the original Political Boundaries and transfer the land area acreage from the clipped file field to the Political Boundaries field.

In Excel, combine 2010 population counts with municipal land area. Calculate municipal land area in square miles and divide population by area to determine population density.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A | B | C | D | E | F |
| Municipality | FIPS\_ID | RPC\_ID | 2010 Population | Town Land Area (mi2) | Population Density |
|  |  |  |  |  | = D/E |

**Documentation Author**: R. Ruppel, UVLSRPC

# Variable: % Population and % Housing Units within ½ Mile of CCA [ID# 206]

***Land Use***

**Description**: Percentage of Population and Housing Units located within ½ mile of Community Center Areas, summarized by municipality. (Note - ½ mile represents a “walkable” distance, per NHDES recommendation.)

**Source\_Name**: U.S. Census, 2000 Population and Housing Unit by Census Block

**Source\_Date**: 2001

**Source\_URL**: <https://data2.nhgis.org/main>

**Source\_Name**: U.S. Census, 2010 Population and Housing Unit by Census Block

**Source\_Date**: 2011

**Source\_URL**: <http://www.census.gov/cgi-bin/geo/shapefiles2010/layers.cgi>

**Source\_Name**: Community Center Areas

**Source\_Date:** 2006

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=communitycenterareas&#47;nh>

**Geography**: Regional Planning Commission

To download data from the National Historic GIS Database, use search parameters Geographic Level= block, and Years= 2000, selecting New Hampshire from the *GIS boundary files tab*. Select households and populations from Topics, and add the Total Population and Total Households datasets from *the source tables tab* to data cart. Downloaded tables can be joined to the GIS block boundaries in ArcGIS.

In GIS, calculate area of each census block, then perform a Clip operation on census blocks located within ½-mile of Community Center Areas. Add a new field and calculate the census block area inside the CCA+1/2-mile, then calculate the percentage of the census block inside the CCA+1/2-mile as a decimal. (If less than 10% of the census block is located within the CCA+1/2-mile, remove it from the analysis.)

Add two new fields and calculate an estimate of the population and housing units within the CCA+1/2-mile portion of each census block by multiplying total population and housing units by the percentage of the census block inside the CCA+1/2-mile.

In Excel, report out on the data as shown below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A | B | C | D | E | F |
| RPC\_ID | RPC\_Name | 2000 Population Total | 2000 Population in CCA+1/2-mile | % 2000 Population in CCA+1/2-mile | Repeat for 2010 population and 2000/2010 housing units |
|  |  |  |  |  |  |

**Documentation Author**: R. Ruppel, UVLSRPC

# Variable: High-hazard and significant-hazard dams [ID# 207]

***Land Use***

**Description**: Number of high-hazard and significant-hazard dams in each municipality.

**Source\_Name**: New Hampshire Dam Bureau

**Source\_Date**: 2012

**Source\_URL**: provided by Nancy McGrath, NHDES Dam Bureau

**Geography**: Municipality

**Methodology***:*

In GIS, query the NH dams data set on HAZCL = H to extract features with high hazard classification. Then query the NH dams data set on HAZCL = S to extract features with significant hazard classification.

OR

In Excel, filter the NH dams data set on HAZCL = H to extract features with high hazard classification. Then filter the NH dams data set on HAZCL = S to extract features with significant hazard classification.

Calculate number of high-hazard and significant-hazard dams within each municipality.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | C | D | E |
| Municipality | FIPS\_ID | RPC\_ID | # of High-Hazard Dams in Municipality | # of Significant-Hazard Dams in Municipality |
|  |  |  |  |  |

Also, list the ID number and name of high-hazard dams in each municipality.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | C | D | E |
| Municipality | FIPS\_ID | RPC\_ID | Dam ID # | Dam Name |
|  |  |  |  |  |

Also, list the ID number and name of significant-hazard dams in each municipality.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | C | D | E |
| Municipality | FIPS\_ID | RPC\_ID | Dam ID # | Dam Name |
|  |  |  |  |  |

This metric may be most useful as a map graphic, showing the location of high-hazard and significant-hazard dams – NHDES will recommend a sample map product with appropriate language.

**Documentation Author**: R. Ruppel, UVLSRPC

# Variable: Median Home Price [ID# 301]

**Description**: Median purchase price of a home by Region in 2012. Information provided by the N.H. Department of Revenue, PA-34 Dataset.

**Source\_Name**: Median Home Purchase Price

**Source\_Date**: 2012

**Source\_URL**: <http://www.nhhfa.org/rl_demographic.cfm>

**Geography**: Region, Municipality optional if data is available

**Methodology***:*

***Housing***

Go to the website: [http://www.nhhfa.org/rl\_demographic.cfm](http://www.nhhfa.org/rl_demographic.cfm%20) and select the “Housing Data” link. Select “Purchase Price Data” from the top row of tabs and then select “Purchase Price Data: Median Purchase Price” on the left hand side of the webpage. Select your geography using the drop down menus and select RPC for the region in interest. NOTE: As an optional metric, you may select by town if the information is available.

In the first table, you will find Median Purchase Price (shown below). Download the table in either Excel format or PDF format by right clicking the spreadsheet. Collect data from the “All Homes” category for the year 2012.

Create an Excel table for each region’s Median Home Price for 2012 as shown in the Example below:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **RPC Code** | **Median Home Price (All Homes)** | **Sample Size** |
| **RPC Name** |  |  |  |
| Southwest Region Planning Commission | 4 | $165,000 | 672 |

**Documentation Author**: S. Waleryszak, SWRPC

# Variable: Median Rental Price [ID# 302]

***Housing***

**Description**: Median rental price by Region or Muncipality, if data is available for 2012. Information provided by the N.H. Department of Revenue, PA-34 Dataset.

**Source\_Name**: Median Gross Rental Cost

**Source\_Date**: April 2012

**Source\_URL**: <http://www.nhhfa.org/rl_demographic.cfm>

**Geography**: Region, Municipality optional if data is available

**Methodology***:*

Go to the website: [http://www.nhhfa.org/rl\_demographic.cfm](http://www.nhhfa.org/rl_demographic.cfm%20) and select the “Housing Data” link. Select “Rental Price Data” from the top row of tabs and then select “Rental Cost Data: Median Gross Rent” on the left hand side of the webpage. Select your geography using the drop down menus and select RPC for the region in interest. NOTE: As an optional metric, you may select by town if the information is available.

Download the “Median Rent” table by right clicking the spreadsheet. Collect 2012 data from the “All Units” Category for each Region.

Create an Excel table with the information shown in the Example below:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **RPC Code** | **Median Gross Rent** | **Sample Size** |
| **RPC Name** |  |  |  |
| Southwest Region Planning Commission | 4 | $995 | 840 |

***Housing***

**Documentation Author**: S. Waleryszak, SWRPC

# Variable: Housing Affordability[ID# 303]

***Housing***

**Description**: Percentage of Renter Units and Owner Units affordable to households earning 80 percent of the Housing and Urban Development Area Median Family Income (HAMFI).

**Source\_Name**: Percentage of Renter and Owner-Occupied Housing Units Affordable to Households Earning 80% of the HAMFI.

**Source\_Date**: 2005-2009 American Community Survey (ACS) data

**Source\_URL**: <http://egis.hud.gov/cpdmaps/>

**Source\_Name**: Number of occupied housing units by tenure and household size

**Source\_Date**: 2005-2009 American Community Survey (ACS) data

**Source\_URL**: <http://egis.hud.gov/cpdmaps/>

**Geography**: Region wide by selecting each Municipality in the Regional Planning Commission boundaries.

**Methodology:**

1. Go to [http://egis.hud.gov/cpdmaps/](http://egis.hud.gov/cpdmaps/%20)
2. Close the “Guide Me” window that pops up on the screen.
3. Use the map tools to zoom to your region.
4. Chose the “Map Selection Button”  (you may have to expand it from the top left corner). Next, navigate to Boundaries then Grantee Boundaries and check “CoC and “UGLG” to view the boundaries of the towns and cities.
5. Click on the Reports icon on the toolbar on the top of the screen.
6. In the Target Jurisdiction drop-down menu, select Municipalities as your geography:
7. Use the drawing controls in the window to select the municipalities in your region.
8. Click the Next button in the lower-right corner of the Reports window.
9. On the next screen, you will be prompted to choose an optional set of reference data to include in the report. “None (default)” should be selected; ensure that it is and then click the Next button.
10. On the next screen, you will be prompted to choose the data that you want to include in the report. Click the Uncheck All button, and then click the check boxes next to Housing Supply, then click the Next Button.
11. On the next screen, you can enter a customized title for the report if you wish, and then click the Finish button in the lower right-hand corner of the Reports window. Your browser will download an Excel file of the report. (Note: if the download does not begin, you may need to turn of the pop-up blocker on your website.
12. Open the Excel file and locate the table showing the number of Owners and Renters that fall within the category of 80% HAMFI.
13. Locate the table: Total Number of occupied housing units by tenure and household size for Owner and Renter.

Calculations

1. Divide the total number of rental housing units affordable to households earning 80% of the HAMFI by the total number of rental households to calculate the percentage.
2. Divide the number of owner-occupied housing units affordable to households earning 80% of the HAMFI by the total number of owner-occupied housing units to calculate the percentage.

EXAMPLE:

Southwest Region Planning Commission

* Percentage of Rental Housing Units affordable to household earning 80% of the HAMFI: 1,899/3,682 x 100 = 51.6%
* Percentage of Owner-Occupied Housing Units affordable to households earning 80% of the HAMFI: 1,121/6,751 x 100 = 16.6%

|  |  |
| --- | --- |
|  | Southwest Region Planning Commission |
| Total Owner-Occupied Housing Units | 6,751 |
| Total Renter-Occupied Housing Units | 3,682 |
| Owner-Occupied Units Affordable to 80% of HAMFI | 1,121 |
| Renter-Occupied Units Affordable to 80% of HAMFI | 1,899 |
| Percent of Owner-Occupied Housing Units Affordable to Households Earning 80% of HAMFI | 16.6% |
| Percent of Renter-Occupied Housing Units Affordable to Households Earning 80% of HAMFI | 51.6% |

Final table will also include the following fields:

* RPC Code

**Documentation Author**: S. Waleryszak, SWRPC

# Variable: Number of Affordable Housing Units[ID# 304]

***Housing***

**Description**: Number of “assisted housing” units in a particular geographic area. Data provided by the New Hampshire Housing Finance Authority.

**Source\_Name**: Total Number of Assisted Housing Units

**Source\_Date**: December 4, 2012

**Source\_URL**: <http://www.nhhfa.org/rent_dah.cfm>

**Geography**: Municipality

**Methodology***:*

1. Go to <http://www.nhhfa.org/rent_dah.cfm> and download the “Printable Directory of Assisted Housing (with Accessible Unit Listing)” Microsoft Word document.
2. Convert this Microsoft Word document into a spreadsheet using Microsoft Excel so that the fields are separated into columns. (Complete Excel file can be obtained by calling NH Housing).
3. Geocode the Housing Units based on the address data in the Excel table using GIS.
4. Calculate the total number of Assisted Housing units per town.

NOTE: This does not include “Section 8” housing vouchers, as this information is not available.

Final Table will include the following fields:

* Name of Facility
* Number of Housing Units
* Name of Municipality
* Town FIPS
* Name of County
* County FIPS
* RPC Name
* RPC Code

**Documentation Author**: S. Waleryszak, SWRPC

# Variable: Housing Unit Vacancy Rates[ID# 305]

***Housing***

**Description**: Percentage of non-seasonal vacant housing units out of the total number of housing units in a municipality.

**Source\_Name**: Vacancy Status: U.S. Census Bureau 2010 Census Summary File 1, Table QT-H1.

**Source\_Date**: April 1, 2010

**Source\_URL**:

<http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_SF1/QTH1/0400000US33.06000>.

**Geography**: Municipality

**Methodology***:*

1.Go to the website:

<http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_SF1/QTH1/0400000US33.06000>.

2. “Vacancy Status” is the third heading from the top.

3. Calculate the percent vacant by following the Example below.

**EXAMPLE**

**Alton, NH**

Total Vacant Housing Units: 2,136

Vacant Housing Units for Seasonal, Recreational, or Occasional Use: 1,928

Total Housing Units: 4,281

*Total non-seasonal housing units: 4,281-1,928 = 2,353*

2,136-1,928 = 208 *Real* Vacant housing units (not seasonal)

208 / *2,353* = 0.088

.088 x 100 = 8.8 % *Real* Vacancy Rate (Adjusted for vacancy status due to seasonal use)

Final table will include the following fields:

* RPC Name
* RPC Code
* County Name
* County FIPS
* Municipality Name
* Town FIPS

**Documentation Author**: S. Waleryszak, SWRPC

# Variable: Percent Year Round Occupied Homes[ID# 306]

***Housing***

**Description**: The percent of year round owner occupied housing units out of the total of occupied housing units in a given geographic area.

**Source\_Name**: Owner Occupied Housing Units: US Census Bureau 2010 Census Summary File 1, Table QT-H3.

**Source\_Date**: April 1, 2010

**Source\_URL**:

<http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_SF1/QTH3/0400000US33.06000>.

**Geography**: Municipality

**Methodology***:*

Go to the website:

<http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_SF1/QTH3/0400000US33.06000>.“Owner-occupied housing units” is the third line down where you will find the whole number and the percent of the total number of occupied housing units in that particular geographic area.

**Documentation Author**: S. Waleryszak, SWRPC

# Variable: Percent Renter Occupied Housing Units[ID# 307]

***Housing***

**Source\_Name**: Renter Occupied Housing Units: US Census Bureau 2010 Census Summary File 1, Table QT-H3.

**Source\_Date**: April 1, 2010

**Source\_URL**:

<http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_SF1/QTH3/0400000US33.06000>.

**Methodology**

Go to the website:

<http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_SF1/QTH3/0400000US33.06000>.

Renter-occupied housing units” is the sixth line down where you will find the whole number and the percent of the total number of occupied housing units in that particular geographic area. Download data for each Municipality.

Final table will include the following fields:

* RPC Name
* RPC Code
* Municipality Name
* Town FIPS
* County Name
* County FIPS
* Number of Owner Occupied Housing Units
* Percent Owner of Total Housing Units
* Number of Renter Occupied Housing Units
* Percent Rental of Total Housing Units

**Documentation Author:** S. Waleryszak, SWRPC

# Variable: Total Number and Percent Change in Building Permits [ID# 308]

***Housing***

**Description**: The total estimated number and percent change in building permits issued for a particular municipality. Data provided by NH Office of Energy and Planning (OEP).

**Source\_Name**: Residential Permits; Housing Units Authorized by Permit

**Source\_Date**: 2010

**Source\_URL**:<http://www.nh.gov/oep/programs/DataCenter/Housing/documents/2009housingreport.pdf>

**Source\_Name**: Building Permits Since 2000

**Source\_Date**: 2010

**Source\_URL**: <http://www.nhhfa.org/rl_5year.cfm>

**Geography**: Municipality

**Methodology***:*

1. Go to the website:
2. <http://www.nh.gov/oep/programs/DataCenter/Housing/documents/2009housingreport.pdf> and <http://www.nhhfa.org/rl_5year.cfm> to view Building Permit data for 2000 – 2010. You can request a customized Excel sheet from NH Housing or Office of Energy and Planning for all of the municipalities in the state of New Hampshire.
3. Determine Annual Total and # of permits for first and second half of the decades (2000-2005; 2006-2010).
4. Use the following mathematical formula to determine percent change between the 2000-2005 period. and the 2005 -2010 period.

pc_formula

1. Present data by Municipality

Final table will include the following fields:

* Municipality Name
* Town FIPS
* County Name
* County FIPS
* RPC Name
* RPC Code
* Annual # of Building Permits 2000-2010
* Comparison of average # of building permits issued in the first half of the decade compared to the second half of the decade (two fields: 2000-2005 and 2006-2010).

**Documentation Author**: S. Waleryszak, SWRPC

# Variable: Percent Change in Median Home Price[ID# 309]

***Housing***

**Description**: The percent change in Median Home Prices between 2005 and 2012.

**Source\_Name**: Median Home Purchase Price

**Source\_Date**: April 2012

**Source\_URL**: <http://www.nhhfa.org/rl_demographic.cfm>

**Geography**: Region, Municipality optional if data is available

**Methodology***:*

1. Go to the website: [http://www.nhhfa.org/rl\_demographic.cfm](http://www.nhhfa.org/rl_demographic.cfm%20) and select the “Housing Data” link. Select “Purchase Price Data” from the top row of tabs and then select “Purchase Price Data: Median Purchase Price” on the left hand side of the webpage. Select your geography using the drop down menus and select RPC for the region in interest. NOTE: As an optional metric, you may select by town if the information is available.
2. In the first table, you will find Median Purchase Price (shown below). Download the table in either Excel format or PDF format by right clicking the spreadsheet. Collect data from the “All Homes” category for the year 2012.
3. Calculate the percent change from 2005 – 2012. The reason for these two periods is 2005 was before the peak of the “housing bubble” and 2012 is the most current data.

EXAMPLE

Central Region Planning Commission

2012 = $180,000 (New Value)

2005 = $232,000 (Old Number)

pc_formula

Percent Change = ((180,000-232,000)/232,000) x 100 = 22.2% Decrease in Median Home Price between 2005 and 2012.

The table will also include the following fields:

• RPC Name

• RPC Code

• Median Purchase Price from 2012

**Documentation Author:** S. Waleryszak, SWRPC

# Variable: Number of Assisted Housing Units Near Major Employers [ID# 310]

**Description:** The number of assisted housing units near Major Employer Centers according to The U.S. Census Bureau’s Local Employment Dynamics (LED) On The Map program.

***Housing***

**Source\_Name**: Assisted Housing; Provided by the New Hampshire Housing Finance Authority

**Source\_Date**: December 4, 2012

**Source\_URL**: <http://www.nhhfa.org/rent_dah.cfm>

**Geography:** County

**Source\_Name**: On The Map; U.S. Census Bureau

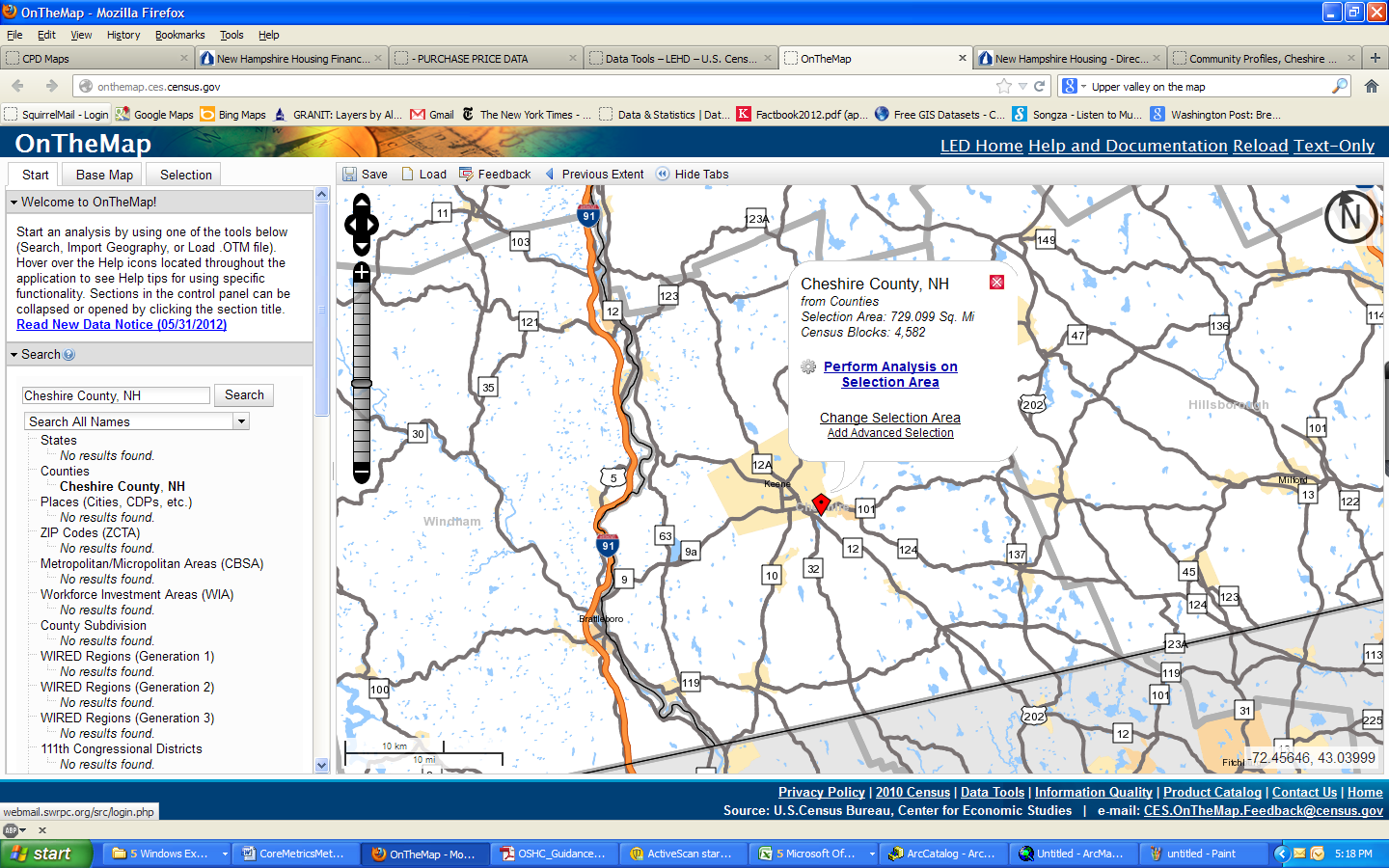
**Source\_Date**: 2012

**Source\_URL**: <http://onthemap.ces.census.gov/>

**Geography**: County

**Methodology***:*

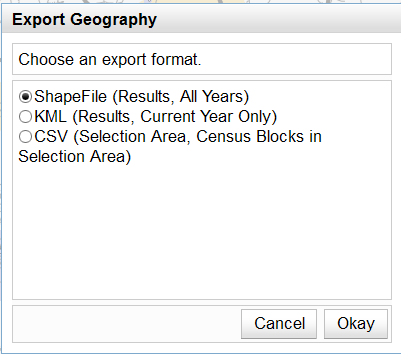
1. Go to <http://www.nhhfa.org/rent_dah.cfm> and download the “Printable Directory of Assisted Housing (with Accessible Unit Listing)” Microsoft Word document.
2. Convert this Microsoft Word document into a spreadsheet using Microsoft Excel so that the fields are separated into columns. (Excel can be obtained by calling NH Housing).
3. Using GIS, geocode the Housing Units based on the address data in the Excel table using GIS.
4. Go to <http://onthemap.ces.census.gov/>



1. Type in the county you desire (Cheshire County, NH). Select your county and then click “Perform Analysis on Selection Area”.
2. Select “Work”; Select Area Profile; Choose 2010; and Primary Jobs from the categories shown below and click “Go!”.



1. Export the Geography button on the left side of the web page to either a Shapefile or KML.

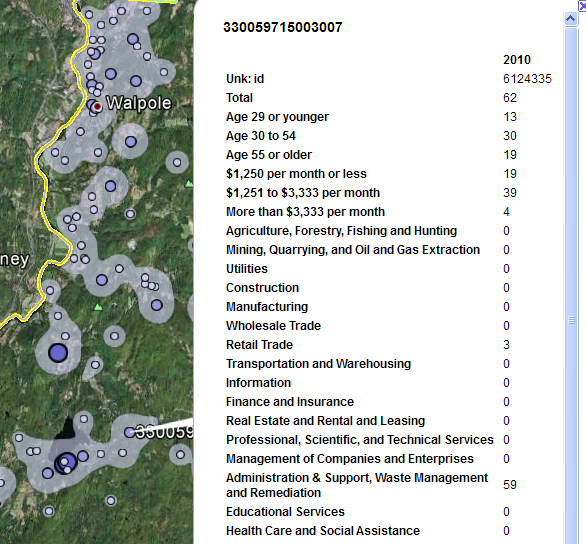


1. Import the geocoded Affordable Housing data into ArcGIS or Google Earth and overlay the two datasets.
2. Perform a visual or spatial analysis on the number of Affordable Housing units that fall within the second of five categories relating to jobs per square mile. The numerical values to the thematic categories will change depending on the County.

NOTE: You can find the descriptions of the tables that you will see in the Shapefile by going to page 4 in this [PDF](http://lehd.ces.census.gov/datatools/doc/OnTheMap_shapefile_data_dictionary.pdf).

The result will be two geographic data sets: Affordable Housing shapefile by county and the On The Map exported geography containing the thematic data and business data mapped by Census Block. Total Employees are under the heading of c000 in the ArcGIS shapefile.

Google Earth KML Example:



**Documentation Author**: S. Waleryszak, SWRPC

# Variable: Gasoline and Diesel Consumption[ID# 401]

***Transportation***

**Description**: % Change in gasoline and diesel consumption over time.

**Source\_Name**: US Department of Transportation; Office of Highway Policy Information; Highway Statistics Series

**Source\_Date**: Last Updated June 25, 2012

**Source\_URL**: <http://www.google.com/publicdata/explore?ds=gb66jodhlsaab_>

**Geography**: Statewide dataset

**Methodology***:*

Year and Gallons of Gasoline and Gallons of Diesel were gathered from the listed website and recorded in the attached spreadsheet.

% change in gasoline was calculated by 1 year, by 5 years, and by 10 years.

% change in Diesel was calculated by 1 year, by 5 years, and by 10 years.

**Documentation Author**: Amy Kizak, SNHPC

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **% Change of Gasoline over time** | | | | **% Change of Diesel over time** | | | |
| Year | Gallons of Gas | % Change By Year | % Change by 5 years | % Change by 10 years | Gallons of Diesel | % Change By Year | % Change by 5 years | % Change by 10 years |
| 1950 | 128,140,000 | 3.74% |  |  | 460,000 |  |  |  |
| 1951 | 132,929,000 | 4.29% |  |  | 582,000 | 26.5% |  |  |
| 1952 | 138,632,000 | 7.00% |  |  | 608,000 | 4.5% |  |  |
| 1953 | 148,341,000 | 5.14% |  |  | 624,000 | 2.6% |  |  |
| 1954 | 155,965,000 | 6.68% |  |  | 618,000 | -1.0% |  |  |
| 1955 | 166,387,000 | 5.91% | 29.85% |  | 1,257,000 | 103.4% | 173.26% |  |
| 1956 | 176,213,000 | 5.07% |  |  | 942,000 | -25.1% |  |  |
| 1957 | 185,139,000 | 0.22% |  |  | 1,236,000 | 31.2% |  |  |
| 1958 | 185,539,000 | 3.57% |  |  | 1,473,000 | 19.2% |  |  |
| 1959 | 192,156,000 | 1.99% |  |  | 1,889,000 | 28.2% |  |  |
| 1960 | 195,980,000 | 0.00% | 17.79% | 52.94% | 2,333,000 | 23.5% | 85.60% | 407.17% |
| 1961 | 195,980,000 | 4.52% |  |  | 2,793,000 | 19.7% |  |  |
| 1962 | 204,833,000 | 5.16% |  |  | 3,314,000 | 18.7% |  |  |
| 1963 | 215,404,000 | 5.62% |  |  | 4,036,000 | 21.8% |  |  |
| 1964 | 227,518,000 | 4.68% |  |  | 4,668,000 | 15.7% |  |  |
| 1965 | 238,163,000 | 6.87% | 21.52% |  | 5,541,000 | 18.7% | 137.51% |  |
| 1966 | 254,524,000 | 5.43% |  |  | 7,401,000 | 33.6% |  |  |
| 1967 | 268,352,000 | 9.40% |  |  | 7,873,000 | 6.4% |  |  |
| 1968 | 293,581,000 | 6.93% |  |  | 10,088,000 | 28.1% |  |  |
| 1969 | 313,931,000 | 7.72% |  |  | 11,515,000 | 14.1% |  |  |
| 1970 | 338,173,000 | 6.59% | 41.99% | 72.55% | 12,546,000 | 9.0% | 126.42% | 437.76% |
| 1971 | 360,455,000 | 5.91% |  |  | 15,028,000 | 19.8% |  |  |
| 1972 | 381,755,000 | 3.03% |  |  | 16,373,000 | 8.9% |  |  |
| 1973 | 393,313,000 | -3.40% |  |  | 18,195,000 | 11.1% |  |  |
| 1974 | 379,948,000 | 2.53% |  |  | 19,035,000 | 4.6% |  |  |
| 1975 | 389,555,000 | 6.55% | 15.19% |  | 17,937,000 | -5.8% | 42.97% |  |
| 1976 | 415,056,000 | 4.17% |  |  | 20,467,000 | 14.1% |  |  |
| 1977 | 432,351,000 | 2.65% |  |  | 21,019,000 | 2.7% |  |  |
| 1978 | 443,789,000 | -5.69% |  |  | 24,152,000 | 14.9% |  |  |
| 1979 | 418,547,000 | -4.90% |  |  | 26,386,000 | 9.2% |  |  |
| 1980 | 398,030,000 | -2.47% | 2.18% | 17.70% | 27,956,000 | 6.0% | 55.86% | 122.83% |
| 1981 | 388,192,000 | -1.59% |  |  | 29,826,000 | 6.7% |  |  |
| 1982 | 382,003,000 | 3.15% |  |  | 32,078,000 | 7.6% |  |  |
| 1983 | 394,044,000 | 7.78% |  |  | 34,468,000 | 7.5% |  |  |
| 1984 | 424,697,000 | 2.61% |  |  | 41,718,000 | 21.0% |  |  |
| 1985 | 435,779,000 | 7.60% | 9.48% |  | 43,101,000 | 3.3% | 54.17% |  |
| 1986 | 468,902,000 | 5.84% |  |  | 51,936,000 | 20.5% |  |  |
| 1987 | 496,305,000 | 3.02% |  |  | 55,666,000 | 7.2% |  |  |
| 1988 | 511,270,000 | 0.61% |  |  | 58,798,000 | 5.6% |  |  |
| 1989 | 514,367,000 | -4.06% |  |  | 60,266,000 | 2.5% |  |  |
| 1990 | 493,509,000 | 2.26% | 13.25% | 23.99% | 51,759,000 | -14.1% | 20.09% | 85.14% |
| 1991 | 504,641,000 | 1.22% |  |  | 48,895,000 | -5.5% |  |  |
| 1992 | 510,788,000 | 1.95% |  |  | 51,273,000 | 4.9% |  |  |
| 1993 | 520,732,000 | 2.65% |  |  | 53,913,000 | 5.1% |  |  |
| 1994 | 534,520,000 | 3.95% |  |  | 56,564,000 | 4.9% |  |  |
| 1995 | 555,636,000 | 5.03% | 12.59% |  | 63,584,000 | 12.4% | 22.85% |  |
| 1996 | 583,610,000 | 5.28% |  |  | 61,335,000 | -3.5% |  |  |
| 1997 | 614,432,000 | 0.68% |  |  | 116,402,000 | 89.8% |  |  |
| 1998 | 618,629,000 | 6.88% |  |  | 103,848,000 | -10.8% |  |  |
| 1999 | 661,203,000 | 1.27% |  |  | 103,763,000 | -0.1% |  |  |
| 2000 | 669,578,600 | 1.20% | 20.51% | 35.68% | 99,492,000 | -4.1% | 56.47% | 92.22% |
| 2001 | 677,593,900 | 3.80% |  |  | 100,115,000 | 0.6% |  |  |
| 2002 | 703,327,000 | 1.37% |  |  | 105,418,000 | 5.3% |  |  |
| 2003 | 712,935,000 | 0.49% |  |  | 102,119,000 | -3.1% |  |  |
| 2004 | 716,396,000 | -2.26% |  |  | 112,131,000 | 9.8% |  |  |
| 2005 | 700,221,000 | 1.03% | 4.58% |  | 111,356,000 | -0.7% | 11.92% |  |
| 2006 | 707,403,000 | 2.07% |  |  | 102,259,000 | -8.2% |  |  |
| 2007 | 722,024,000 | -1.80% |  |  | 102,878,000 | 0.6% |  |  |
| 2008 | 709,052,000 | -0.18% |  |  | 98,975,000 | -3.8% |  |  |
| 2009 | 707,791,000 | 0.09% |  |  | 93,697,000 | -5.3% |  |  |
| 2010 | 708,430,000 |  | 1.17% | 5.80% | 94,210,000 | 0.5% | -15.40% | -5.31% |

# Variable: Greenhouse Gas (GHG) emissions attributed to transportation [ID# 402]

***Transportation***

**Description**: Percentage of GHG emissions attributed to transportation.

**Source\_Name**: EPA US GHG Inventory

**Source\_Date**: 2012

**Source\_URL**:

http://www.epa.gov/climatechange/Downloads/ghgemissions/US-GHG-Inventory-2012-Main-Text.pdf

**Geography**: National Statistic. No geographic component.

**Methodology***:*

In the 2012 US EPA GHG Inventory report, a calculation (performed in 2010), reports the transportation sector contributed 1,834 teragrams (1 million metric tons) of GHG emissions accounting for 26.9 percent out of the major contributing sectors, Table 2-12.

Statistic reported annually.

**Documentation Author**: Derek Serach, SNHPC

# Variable: Rail Lines Capable of 40 mph speed [ID# 403]

***Transportation***

**Description**: Miles of rail lines capable of 40 mph speeds.

**Source\_Name**: NH DOT 2011 Scorecard

**Source\_Date**: 2011

**Source\_URL**: http://www.nh.gov/dot/org/commissioner/balanced-scorecard/department/documents/bs\_performance\_rail\_lines\_40mph.pdf

**Source\_Name**: GRANIT Railroads - Selection

**Source\_Date:** January 1, 1993

**Source\_URL**: http://www.granit.unh.edu/data/search?dset=rr

**Geography**: Statewide data layer – report at RPC level.

**Methodology***:*

This category is classified as what is known as Class 3 Rail Line (operation of freight at 40 mph and passenger at 60 mph).

From NH DOT Scorecard Report 2011:

“In recent years, improvements in the condition of railroad lines have been attributable to upgrades in track funded by a variety of sources. For example, prior to initiation of the Downeaster Amtrak service in 2001, the Freight Main Line owned and operated by Guilford Rail System (now Pan Am Railways) was upgraded with new ties, ballast and continuous welded rail funded by the FRA. This line, with 35 miles in New Hampshire, has been primarily maintained at Class 3 since that time. The New England Central’s Connecticut River line has been recently upgraded to Class 3 in part with a grant from the FRA, to allow the Amtrak Vermonter to travel at higher speeds and improve the performance of the line for freight as well. Portions of two other lines, the St. Lawrence & Atlantic and the New Hampshire Northcoast, have been upgraded to Class 3 with railroad funds and state and federal loan and grant funds.”

**Contact NH DOT (Fay Rubin) first to see if shapefile already exists.**

Download Railroads shapefile from GRANIT UNH. Query RRA Attribute Field=1 to show only active railroad segments.

Select out specific rail lines:

The New England Central Connecticut River Line: Starts at SW most point of NH and runs to White River Junction. Map reference: <http://www.railamerica.com/Files/NECR/NECR_2012Feb26_NN.pdf>

Downeaster Amtrak: The most SE line running through Exeter and Dover, NH. <http://www.amtrakdowneaster.com/>

St. Lawrence & Atlantic: Running through northern NH (Berlin). <http://www.gwrr.com/operations/railroads/north_america/st_lawrence_atlantic_railroad.be>

New Hampshire Northcoast: Eastern rail line starting Somersworth & Rochester area.

<http://www.trainweb.org/nhrra/History/RR-Map.htm>

Note: the 2011 scorecard references 103 miles of rail line capable of 40 mph speed, Contact Fay Rubin for up to date data layer. ***Additional information from DOT will be needed to confirm which segments are capable, current dataset only includes status and length.***

<http://www.nh.gov/dot/org/commissioner/documents/2011bsc_executivesummarylr.pdf>

35 miles of Amtrak and at least 50 miles of the Central Connecticut River Line comprise this 103. The smaller segments of the other two rail lines, stated as “portions” in the 2011 report may require contact with NHDOT or the involved rail line companies.

**Documentation Author**: Derek Serach, SNHPC

# Variable: Red Listed Bridges [ID# 404]

***Transportation***

**Description**: # of Red Listed Bridges.

**Source\_Name**: NH DOT 2011 Scorecard

**Source\_Date**: 2011

**Source\_URL**: http://www.nh.gov/dot/org/commissioner/documents/bsc\_booklet\_weblr.pdf

**Source\_Name**: NH DOT Ten Year Plan: NH Bridges

**Source\_Date:** 2011

**Source\_URL**: http://www.nh.gov/dot/org/projectdevelopment/planning/typ/documents/03\_Br\_State\_All\_11-20.pdf

**Geography**: Municipality and Region

**Methodology***:*

In 2011 NH DOT Scorecard reported 149 red listed bridges. <http://www.nh.gov/dot/org/projectdevelopment/bridgedesign/documents.htm>

The website above is an index for all the bridge related materials NH DOT has available. Including corresponding pdfs as well as a continually revised Google Earth Mapping Application. Request shapefile from NHDOT, select out red listed bridges if required ***(Contact Fay Rubin for latest data layer).***

Note: 140 listed bridges as of April 2012 <http://www.nh.gov/dot/org/projectdevelopment/bridgedesign/documents/nhdot_redlist2012-04-23.pdf>

Refer to documents.htm for the latest updates.

**Documentation Author**: Derek Serach, SNHPC

# Variable: Pavement Condition [ID# 405]

***Transportation***

**Description**: Miles of road by pavement condition.

**Source\_Name**: NH DOT 2011 Scorecard

**Source\_Date**: 2011

**Source\_URL**: http://www.nh.gov/dot/org/commissioner/documents/2011bsc\_executivesummarylr.pdf

**Source\_Name**: NH DOT Report

**Source\_Date:** 2011

**Source\_URL**: http://www.nh.gov/dot/org/commissioner/balanced-scorecard/department/documents/bs\_performance\_pavecond.pdf

**Source\_Name**: NH DOT 10 year report

**Source\_Date:** Map based on 2008 data

**Source\_URL**: http://www.nh.gov/dot/org/projectdevelopment/planning/typ/documents/02\_PaveCond\_All\_11-20.pdf

**Geography**: Region

**Methodology***:*

2,695 miles of state maintained roads were reported in the 2011 scorecard as pavement that was in good or fair condition.

The second source tracks how NH DOT performed this calculation that is reported every 2 years. NHDOT’s metric of Ride Comfort Index (RCI) establishes limits to categorize NHDOT maintained roads, where “Good” is the equivalent of a score greater than 5, “Fair” being between 3.5 and 2.5, and “Poor” defined as less than 2.5 in the effort to measure the “roughness” of a road traveled by a motorist.

NH DOT maintained road segments with the Ride Comfort Index (RCI) attribute would have to be requested from DOT and would then be queried for the “Good”, “Fair”, and “Poor” rating intervals and selected out for each region.

**Documentation Author**: Derek Serach, SNHPC

# Variable: Tons of freight shipped via all modes [ID# 406]

***Transportation***

**Description**: Number in tons

**Source\_Name**: NH DOT 2011 Scorecard

**Source\_Date**: 2011

**Source\_URL**: http://www.nh.gov/dot/org/commissioner/documents/bsc\_booklet\_weblr.pdf

**Source\_Name**: NH DOT 2011 Reporting

**Source\_Date:** 2011

**Source\_URL**: http://www.nh.gov/dot/org/commissioner/balanced-scorecard/department/documents/bs\_performance\_totalcargoshipped.pdf

**Geography**: Statewide statistic based off of four different categories from a number of sources that include air, railway, waterway, and motor carrier transportation. Not available by region and lacks uniformity.

**Methodology***:*

In the 2011 NH DOT Scorecard report, NH DOT states a number of tons freight shipped via all modes (including air, railway, waterway, and motor carrier) is 68,677,213. Note this number is only updated every 5 years and was calculated last in 2009, even though it is reported for the year 2011. The second source includes the number breakout for each mode as well as the number of sources DOT used to get to this calculation. In addition they report this indicator may not be a good current estimation given that the calculation was performed before the current recession.

**Documentation Author**: Derek Serach, SNHPC

# Variable: Public Transit Utilization[ID# 407]

***Transportation***

**Description**: Annual # of public transit passengers, # of miles served by transit.

**Source\_Name**: NH DOT 2011 Scorecard

**Source\_Date**: 2011

**Source\_URL**: <http://www.nh.gov/dot/org/commissioner/documents/2011bsc_executivesummarylr.pdf> and <http://www.nh.gov/dot/org/commissioner/documents/bsc_booklet_weblr.pdf>

Pages 29 & 30

**Source\_Name**: Regional Transit Shapefiles, if available.

**Source\_Date:**

**Source\_URL**:

**Geography**: Regional

**Methodology***:*

**Part 1: Annual # of public transit passengers -**

NH DOT Scorecard reported transit ridership of 3,415,291 for the year 2011.

From DOT Scorecard report 2011, describing how the data was received:

“Ridership measures one-way trips, i.e. boardings on transit vehicles. Transit systems report ridership, among other measures, to the Federal Transit Administration through the National Transit Database.”

Statistic reported annually.

**Part 2: # of miles served by transit -**

Calculation based on best estimation with existing or created shapefiles of local transit providers.

<http://www.nh.gov/dot/programs/rideshare/transit.htm> NHDOT list of local transit providers. RPC’s may have access to shapefiles for the organizations within their particular region, calculate out the total miles.

**MTA:** 90.1 Miles

**CART:** Sun Shuttle Route: 11 miles

**Documentation Author**: Derek Serach, SNHPC

# Variable: Travel Mode Share [ID# 408]

***Transportation***

**Description**: Total percentage of workers commuting via walking, biking, transit, and carpooling.

**Source\_Name**: American Community Survey: Table B08301. Means of Transportation to Work for Workers 16 and Over.

**Source\_Date**: 2010

**Source\_URL**:

<http://factfinder2.census.gov>

**Geography**: Regional.

**Methodology:** Taken from HUD OSHC Guidance on Performance Measurement/Flagship Sustainability Indicators:

**“Data Elements:** All required data elements can be sourced from a single table in the ACS (or Census). In the ACS, data are found in *Table B08301. Means of Transportation to Work for Workers 16 and Over.* Data elements required are:

* Number of workers commuting by carpool
* Number of workers commuting by public transportation (excluding taxicab)
* Number of workers commuting by bicycle
* Number of workers commuting by foot (walking)
* Total number of workers
* **Step-by-step Guidance on Obtaining Data:**

1. Go to http://factfinder2.census.gov

2. In the left-hand sidebar, click on “Topics.”

3. Under “Select Topics to add to ‘Your Selections,’” click on the plus sign next to “People.”

4. In the expanded list of topics that appears under “People,” click on the plus sign next to “Employment.”

5. In the expanded list of topics that appears under “Employment,” click on “Commuting (Journey to Work)”

6. In the left-hand sidebar, click on “Geographies.”

7. Select a geographic type from the drop-down menu. The geographic type will depend upon the scope of grant projects. In general:

c. Community Challenge grantees working on corridor- or neighborhood- scale projects will need to identify the census tracts or block groups that make up the project area using the “Address” or “Map” tabs at the top of the “Select Geographies” box. ***(Census Tract Level by Region)***

i. Census tract-level data can be downloaded by selecting “Census Tract” in the “Select a geographic type” menu, selecting a state and county from the drop-down menus, and then selecting a census tract from the resulting list in the box marked “Select one or more geographic areas and click Add to Your Selections.”

ii. Block group data can be downloaded from the ACS Summary File by following the instructions in Appendix A: *Working with Census Block Group Data*.

d. Note that you can select multiple geographies from the drop-down menus by holding down the control key and clicking on multiple states, metro areas, or census tracts.

8. Click the “Add to Your Selections” button.

9. Click on “Close” in the upper-right corner of the “Select Geographies” box.

10. Scroll through the search results until you see the *Table ID B08301: Means of Transportation* to Work, and click on the table title to view the table.

a. If there are a large number of search results, you can locate the table more quickly by entering “B08301” in the “Narrow your search” box at the top of the “Search results” window.

b. Multiple results from different years and different estimates (1-year, 3-year, or 5-year) may be available for the same table. Select data from the desired year using estimate that is collected over the shortest time span (i.e., 1-year estimates are more desirable than 3- or 5-year estimates; 3-year estimates are more desirable than 5-year estimates).

c. At the top of the table view, under “Actions,” click on “Download” to download the file in Excel format in order to facilitate calculations. If the data estimates download formatted as text, click the “!” error to convert them to numbers in order to facilitate calculations.

**Basic Calculation Steps:**

1. Sum number of workers commuting by carpool, public transportation, bicycling, and walking.

2. Divide by total number of workers and multiply by 100 to calculate the percentage of workers commuting by carpool, public transportation, bicycle, and foot.

3. If using multiple census geographies, create a weighted average by multiplying the percentage of workers commuting by carpool, public transportation, bicycle, and foot within each given geographical area by the percentage of total workers within the project area that are located within that area, and summing the results across all geographic areas. For in-depth instructions on calculating weighted averages, including sample calculations, refer to the separate *Weighted Averages Calculation Worksheet “*

**Documentation Author**: Amy Kizak, Derek Serach, SNHPC

# Variable: Population with access to multi-modal transportation [ID# 409]

***Transportation***

**Description**: Percentage of Population with access to Multi-modal transportation.

**Source\_Name**: NH DOT 2011 Scorecard

**Source\_Date**: 2011

**Source\_URL**: http://www.nh.gov/dot/org/commissioner/documents/2011bsc\_executivesummarylr.pdf

**Source\_Name**: NH DOT Report

**Source\_Date:** 2011

**Source\_URL**: http://www.nh.gov/dot/org/commissioner/balanced-scorecard/department/documents/bs\_performance\_multimodaltrans.pdf

**Source\_Name**: 2010 Census Data – Population & NHDOT Multimodal Terminals

**Source\_Date:**

**Source\_URL**:

**Geography**: Statewide statistic.

**Methodology***:*

In the 2011 NH DOT Scorecard report, it is reported that 24 percent the state’s population has access to multi-modal transportation.

The second source describes the GIS calculation NH DOT conducted using 2010 Census data to calculate the population within a quarter (.25) mile of multimodal terminals. Since it is reliant on Census data the only indicator that could change yearly is the number of terminals, this statistic is updated yearly or bi-yearly by NH DOT and there might not be any need to conduct this measure “in-house” unless seeking map representation which would require the NHDOT terminal database or creation of our own.

Example of possible calculation: Buffer .25 from NHDOT terminals database, calculate population of census blocks within radius, compare population with overall state population.

**Documentation Author**: Derek Serach, SNHPC

# Variable: Public Sewer Systems, Private Septic Systems, Public Water Systems, and Private Well Systems [ID# 501]

***Water Infrastructure***

**Description**: Total Users on Public Sewer Systems, Private Septic Systems, Public Water Systems, and Private Well Systems

**Source\_Name**: USGS New Hampshire Water Use Data

**Source\_Date**: 2005

**Source\_URL**: <http://nh.water.usgs.gov/projects/nhvtwateruse/data/NHTownSum2005.xlsx>

**Geography**: Municipality

**Methodology**:

*Note: USGS Methodology Summary: USGS analysis uses a proportion of the total road length within the census track that falls within the water/sewer service area to break out population (private vs. public water/sewer). For a more detailed review of the methodology used by USGS see page 11 at:* [*http://pubs.usgs.gov/of/2009/1168/pdf/ofr2009-1168.pdf*](http://pubs.usgs.gov/of/2009/1168/pdf/ofr2009-1168.pdf)*.*

Navigate to: <http://nh.water.usgs.gov/projects/nhvtwateruse/data/NHTownSum2005.xlsx>

**Public Sewer/Septic Systems**:

***NHTownRetFlw*** tab contains Total Population Data with On-Site Disposal Systems (Septic) and Wastewater Treatment Systems (Public Sewers)

Apply Filter to Town Name Field and query as needed

Example:

|  |  |  |  |
| --- | --- | --- | --- |
|  | ***Population*** | | |
| **TOWN NAME** | **Total** | **On-Site Disposal Systems** | **Wastewater Treatment Systems (Sewers)** |
| Acworth | 872 | 872 | 0 |
| Albany | 690 | 690 | 0 |
| Alexandria | 1,469 | 1,469 | 0 |
| Allenstown | 4,905 | 2,567 | 2,463 |
| Alstead | 1,993 | 1,993 | 0 |
| Alton | 4,990 | 4,990 | 0 |
| Amherst | 11,513 | 11,486 | 27 |
| Andover | 2,213 | 2,213 | 0 |

**Public Water/Well Systems**:

***NHTownWith*** tab contains Total Population Data on Household Well and Community (Public) Water Systems

Apply Filter to Town Name Field and query as needed

Example:

|  |  |  |  |
| --- | --- | --- | --- |
|  | ***Population*** | | |
| **TOWN NAME** | **Total** | **Household Wells** | **Community Water Systems** |
| Acworth | 872 | 872 | 0 |
| Albany | 690 | 483 | 207 |
| Alexandria | 1,469 | 1,461 | 8 |
| Allenstown | 4,905 | 1,252 | 3,653 |
| Alstead | 1,993 | 1,927 | 66 |
| Alton | 4,990 | 3,905 | 1,085 |
| Amherst | 11,513 | 9,245 | 2,268 |
| Andover | 2,213 | 1,898 | 315 |

\*Disclaimer: "The Water Distribution and Sewer Collection Areas data set has limited accuracy for the following reasons:

* The water distribution and sewer collection lines have been buffered to depict areas and, therefore, capture some parts of other roads within 200 feet that are not served;
* The data set shows the entire system, including con­veyances that extend from the source of supply to the distribution system and may cross roads that are not actually served by the system;
* Water distribution or sewer collection lines may have been extended since the last revision of the data set; and
* The buffered lines were based on the NH DOT road data set rather than the census road data set, which may result in some minor discrepancies with the census blocks."

**Possible Second Iteration**: Census 2010 population data, updated road layer, updated service area layer (available April 2013) to estimate the desired metrics.

**Documentation Author**: Matt Sullivan, SRPC

# Variable: Communities with Aquifer or Well-Head Protection Ordinances [ID# 502]

***Water Infrastructure***

**Description**: Number of Municipalities with Groundwater Protection Ordinances as statewide or regional statistic (Ordinance details also available)

**Source\_Name**: DES Groundwater Ordinances

**Source\_Date**: 2012

**Source\_URL**: Groundwater Ordinance Database requested from DES

**Geography**: Municipality, Statewide/Regional Statistic

**Methodology**:

***Sheet 1*** tab contains Town Name field and Name field necessary for analysis

1. Apply Filter to “Town Name” Field and query as needed
   1. Type of Groundwater Ordinance indicated in “Name” field

Example:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TOWN\_NAME | Town Id | TOWN | Date | Name |
| ALLENSTOWN | 171 | ALLENSTOWN | 3/8/2011 | Groundwater Protection Overlay District |
| ALTON | 109 | ALTON | 3/9/2004 | Aquifer Protection Overlay District |
| AMHERST | 224 | AMHERST | 3/1/2003 | Aquifer Cons. District-Zoning Ord. |
| ANTRIM | 183 | ANTRIM | 3/11/2008 | Aquifer and Wellhead Protection District |
| ASHLAND | 93 | ASHLAND | 3/8/2005 |  |
| BARNSTEAD | 135 | BARNSTEAD |  | Aquifer Recharge District |
| BARRINGTON | 151 | BARRINGTON | 1/6/2005 | Groundwater Protection District |

\*Disclaimer: Accuracy of data collected by DES is dependent on town reporting

**Possible Second Iteration**: Database update to be completed by April 2013

**Documentation Author**: Matt Sullivan, SRPC

# Variable: Potential Water Supply Lands in Conservation [ID# 601]

***Environment***

**Description**: Acreage and percent of municipality’s potential water supply land area conserved.

**Source\_Name**: DES Favorable Gravel Well Analysis

**Source\_Date**: July 2011

**Source\_URL**:

**Source\_Name**: GRANIT Conservation and Protected Lands

**Source\_Date**: November 2012

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=consnh>

**Source\_Name**: GRANIT New Hampshire Political Boundaries

**Source\_Date:** April 2009

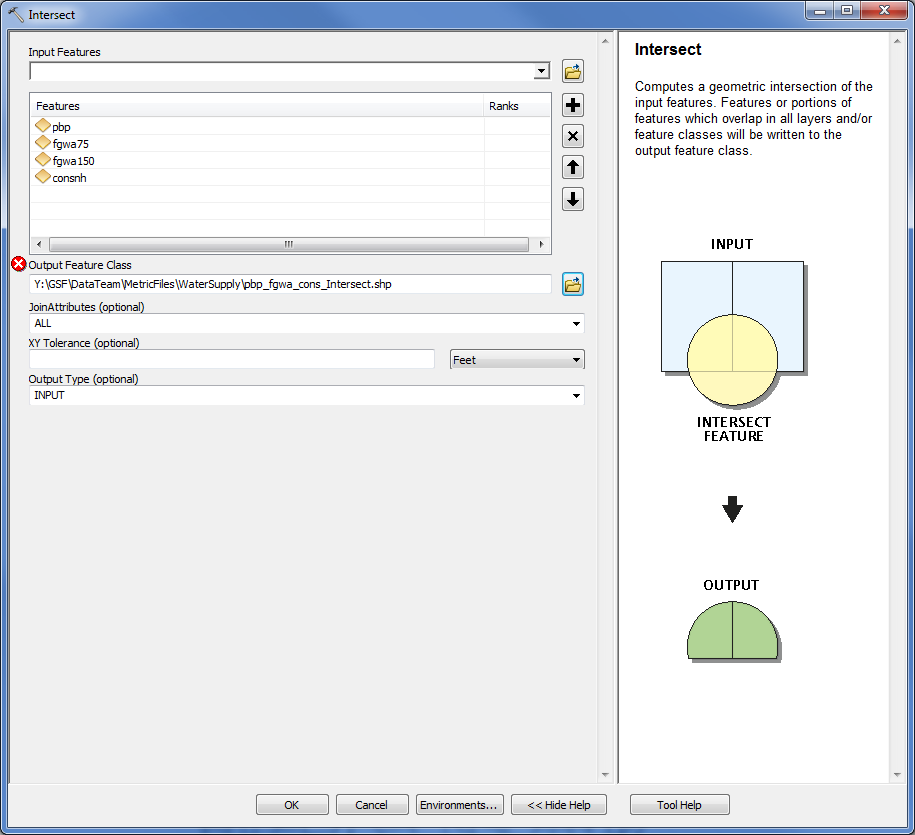
**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=pb>

**Geography**:

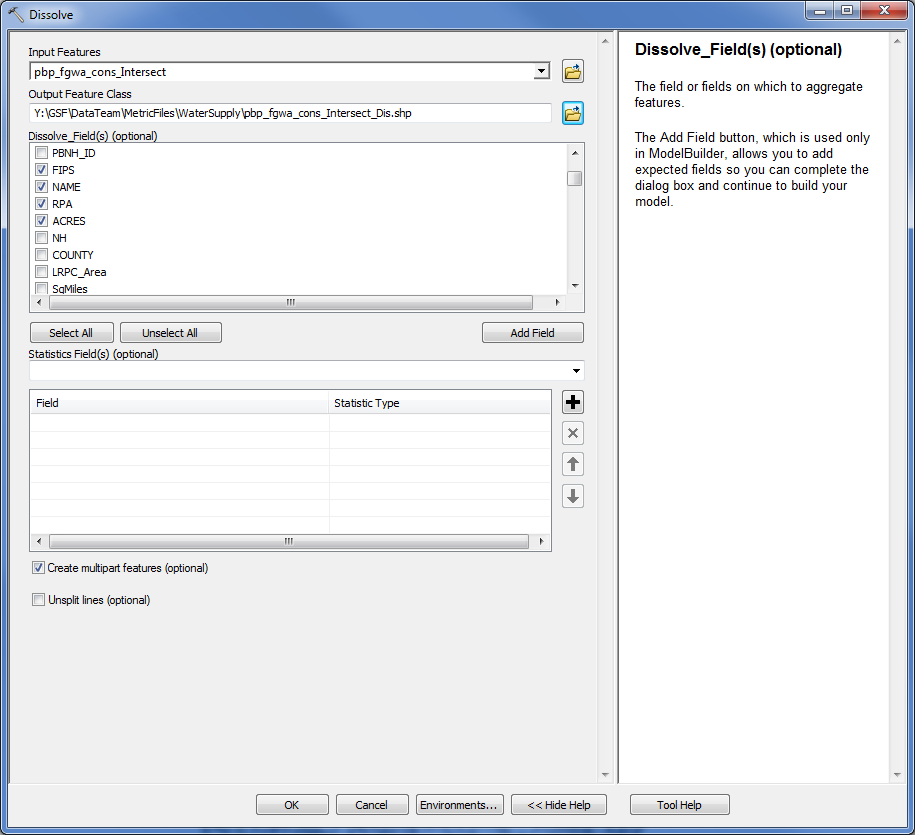
**Methodology***:*

In GIS:

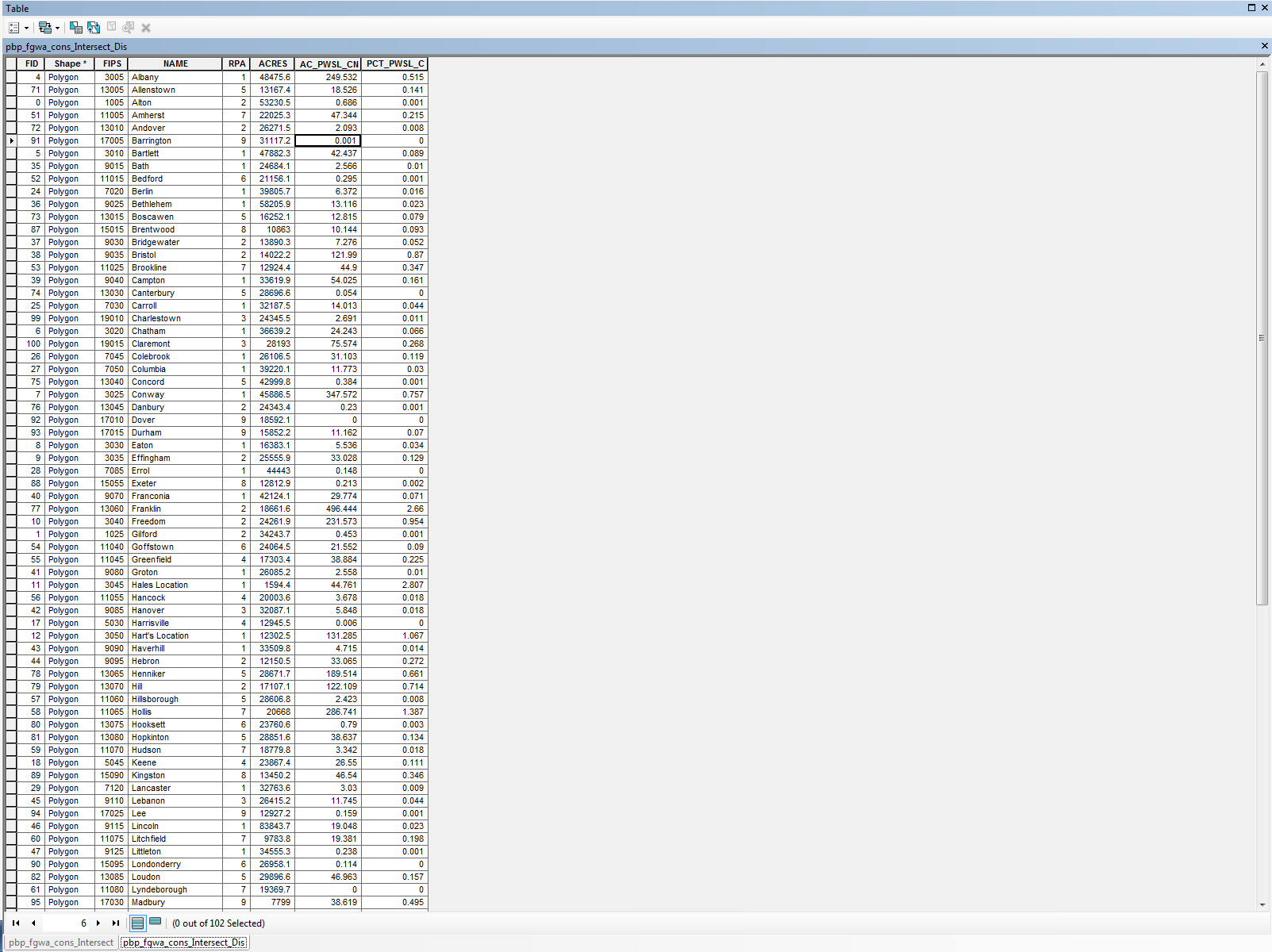
* Use fgwa75 and fgwa150
* Set Definition Query in conservation lands layer to LEVEL = 1
* Perform INTERSECT on political boundaries, favorable gravel well analysis, and conservation lands



* Perform DISSOLVE on intersected layer, set Dissolved Fields to FIPS, NAME, RPA, ACRES



* Add new field (AC\_PWSL\_CN) to the dissolved layer to determine the acreage of potential water supply land in conservation
  + Calculate Geometry: Acres for field (AC\_PWSL\_CN)
* Add new field (PCT\_WAP\_CN) to dissolved layer to determine the percentage of potential water supply land in conservation
  + Field Calculator: PCT\_PWSL\_CN = [AC\_PWSL\_CN]/[ACRES] \* 100



**Documentation Author**: M. Therrien, LRPC

# Variable: Conserved Wildlife Habitat [ID# 602]

# 

**Description**: Acreage and percent of municipality’s important wildlife habitat area conserved.

**Source\_Name**: NH Wildlife Action Plan 2010: Wildlife Habitat Ranked by Ecological Condition

***Environment***

**Source\_Date**: March 2010

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=wap10_tiers>

**Source\_Name**: GRANIT Conservation and Protected Lands

**Source\_Date**: November 2012

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=consnh>

**Source\_Name**: GRANIT New Hampshire Political Boundaries

**Source\_Date:** April 2009

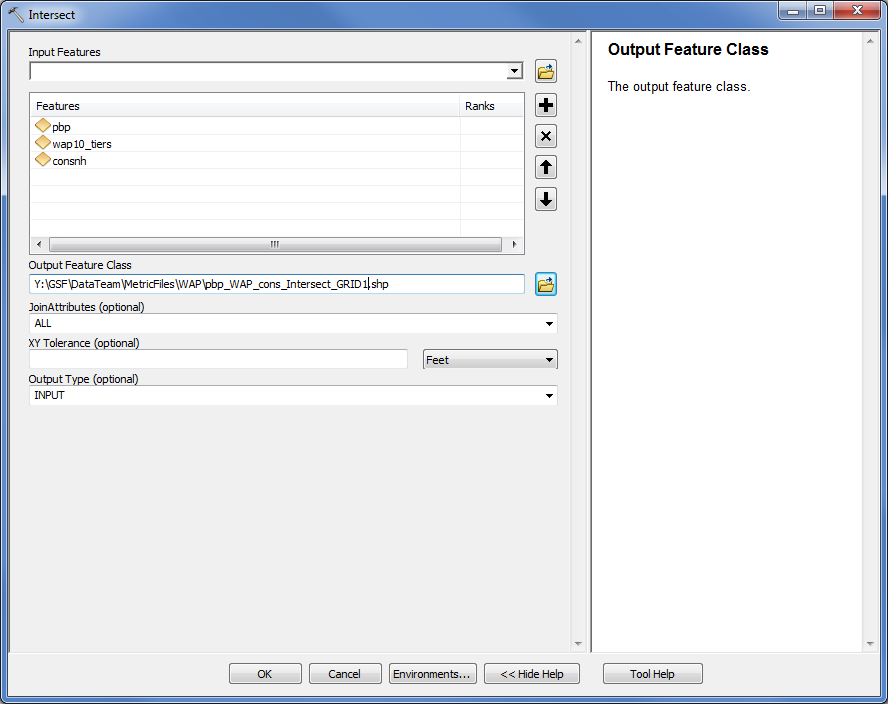
**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=pb>

**Geography**: Municipality

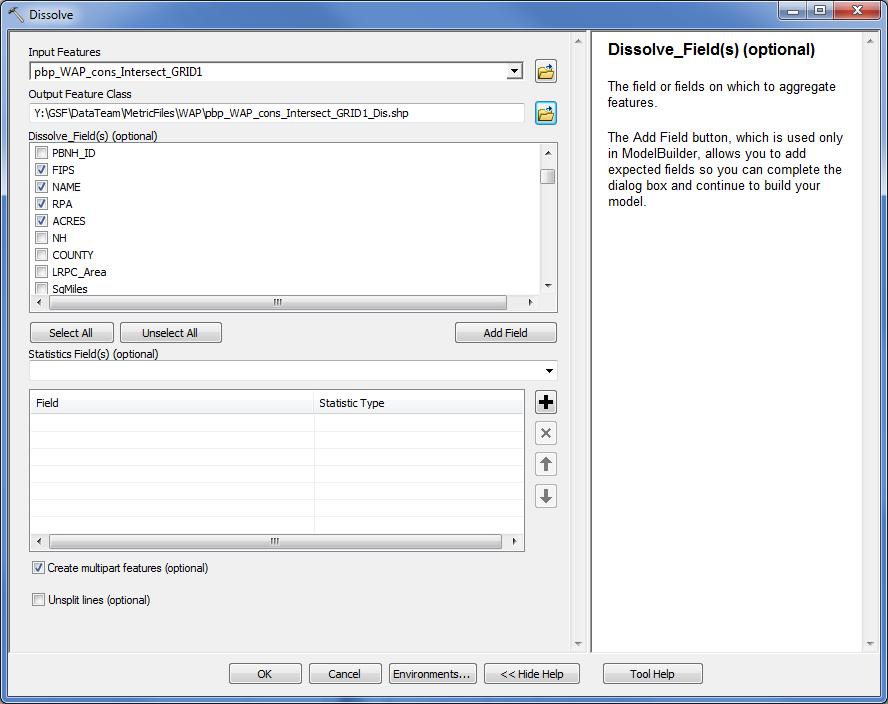
**Methodology***:*

In GIS:

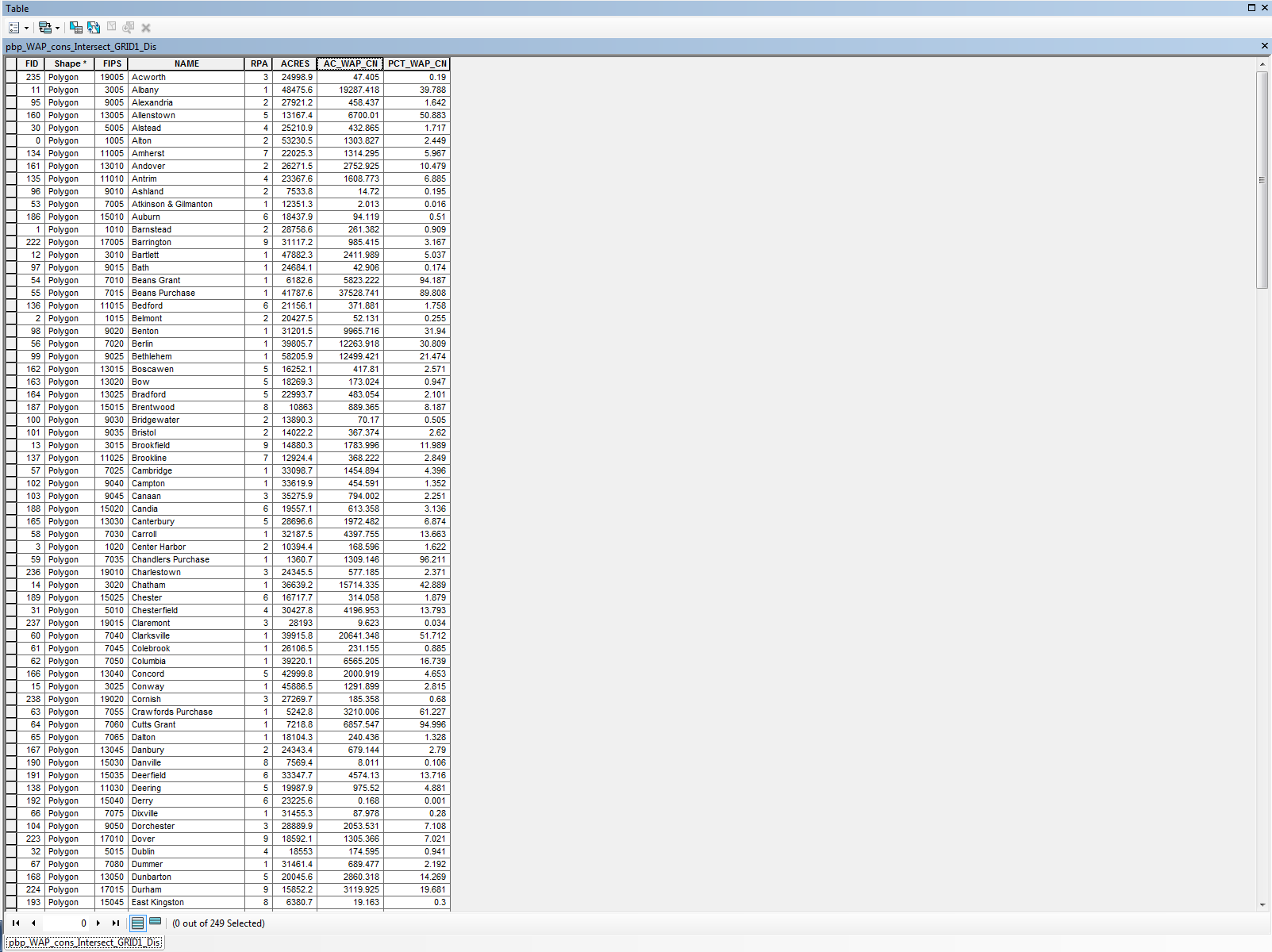
* Set Definition Query in wildlife action plan layer to GRIDCODE = 1
* Set Definition Query in conservation lands layer to LEVEL = 1
* Perform INTERSECT on political boundaries, wildlife habitat, and conservation lands



* Perform DISSOLVE on intersected layer, set Dissolved Fields to FIPS, NAME, RPA, ACRES



* Add new field (AC\_WAP\_CN) to the dissolved layer to determine the acreage of important wildlife habitat in conservation
  + Calculate Geometry: Acres for field (AC\_WAP\_CN)
* Add new field (PCT\_WAP\_CN) to dissolved layer to determine the percentage of important wildlife habitat in conservation
  + Field Calculator: PCT\_WAP\_CN = [AC\_WAP\_CN]/[ACRES] \* 100



**Documentation Author**: M. Therrien, LRPC

# Variable: Conserved Land with Productive Soils [ID# 603]

***Environment***

# 

**Description**: Acreage and percent of municipality’s productive soils area conserved.

**Source\_Name**: Soil Survey Geographic (SSURGO) database for New Hampshire

**Source\_Date**: January 2009

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=soils/nh>

**Source\_Name**: GRANIT Conservation and Protected Lands

**Source\_Date**: November 2012

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=consnh>

**Source\_Name**: GRANIT New Hampshire Political Boundaries

**Source\_Date:** April 2009

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=pb>

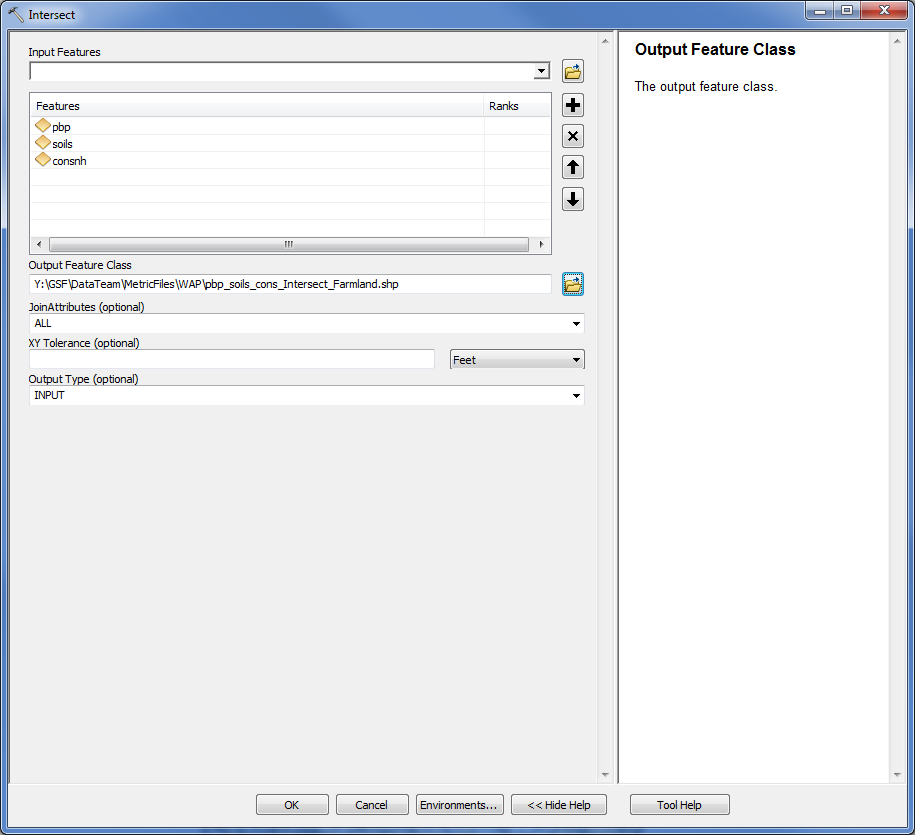
**Geography**: Municipality

**Methodology***:*

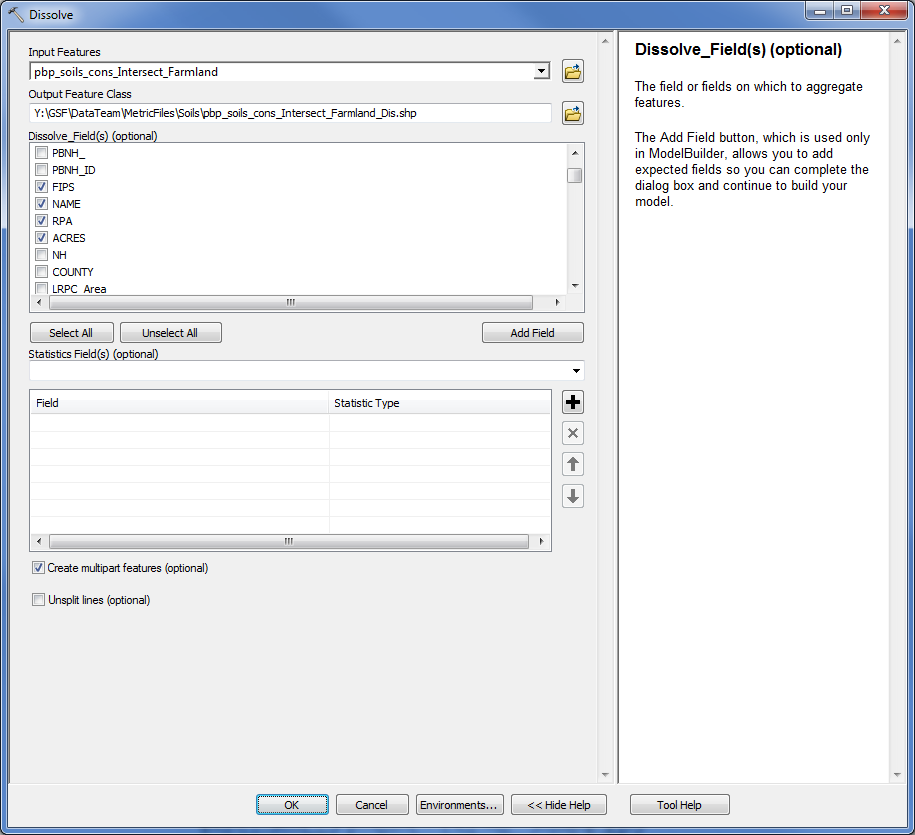
Disclaimer: There are edge match issues between counties in some areas

In GIS:

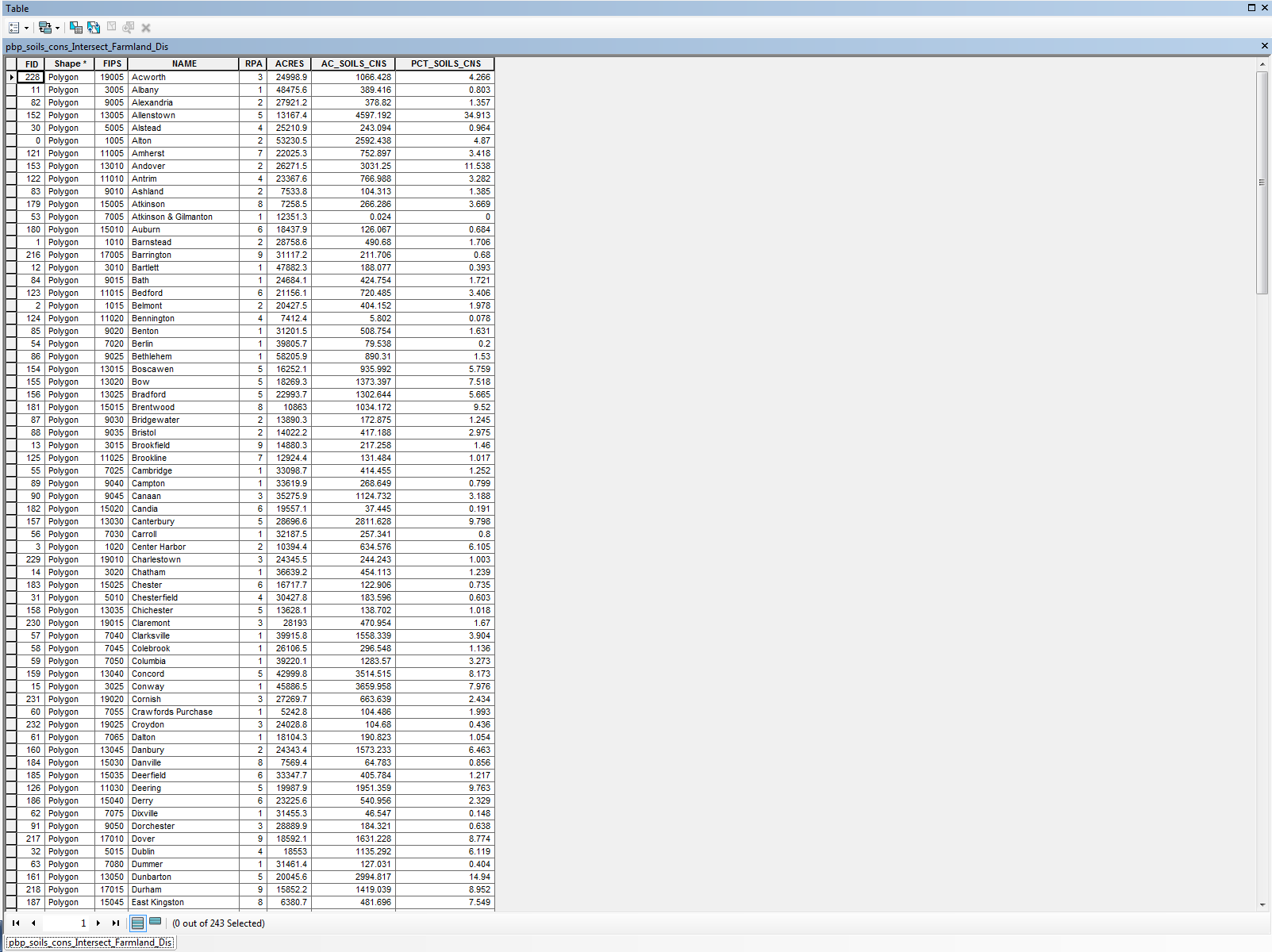
* Set Definition Query in soils layer to FrmlndCls = All areas are prime farmland, Farmland of local importance, and Farmland of statewide importance
* Set Definition Query in conservation lands layer to LEVEL = 1
* Perform INTERSECT on political boundaries, soils, and conservation lands



* Perform DISSOLVE on intersected layer, set Dissolved Fields to FIPS, NAME, RPA, ACRES



* Add new field (AC\_SOILS\_CNS) to the dissolved layer to determine the acreage of important wildlife habitat in conservation
  + Calculate Geometry: Acres for field (AC\_ SOILS \_CNS)
* Add new field (PCT\_ SOILS \_CNS) to dissolved layer to determine the percentage of important wildlife habitat in conservation
  + Field Calculator: PCT\_ SOILS \_CNS = [AC\_ SOILS \_CNS]/[ACRES] \* 100



**Documentation Author**: M. Therrien, LRPC

# Variable: Conserved Flood Storage Land [ID# 604]

***Environment***

# 

**Description**: Acreage and percent of municipality’s flood storage land area conserved.

**Source\_Name**: Soil Survey Geographic (SSURGO) database for New Hampshire

**Source\_Date**: January 2009

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=soils/nh>

**Source\_Name**: GRANIT Conservation and Protected Lands

**Source\_Date**: November 2012

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=consnh>

**Source\_Name**: GRANIT New Hampshire Political Boundaries

**Source\_Date:** April 2009

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=pb>

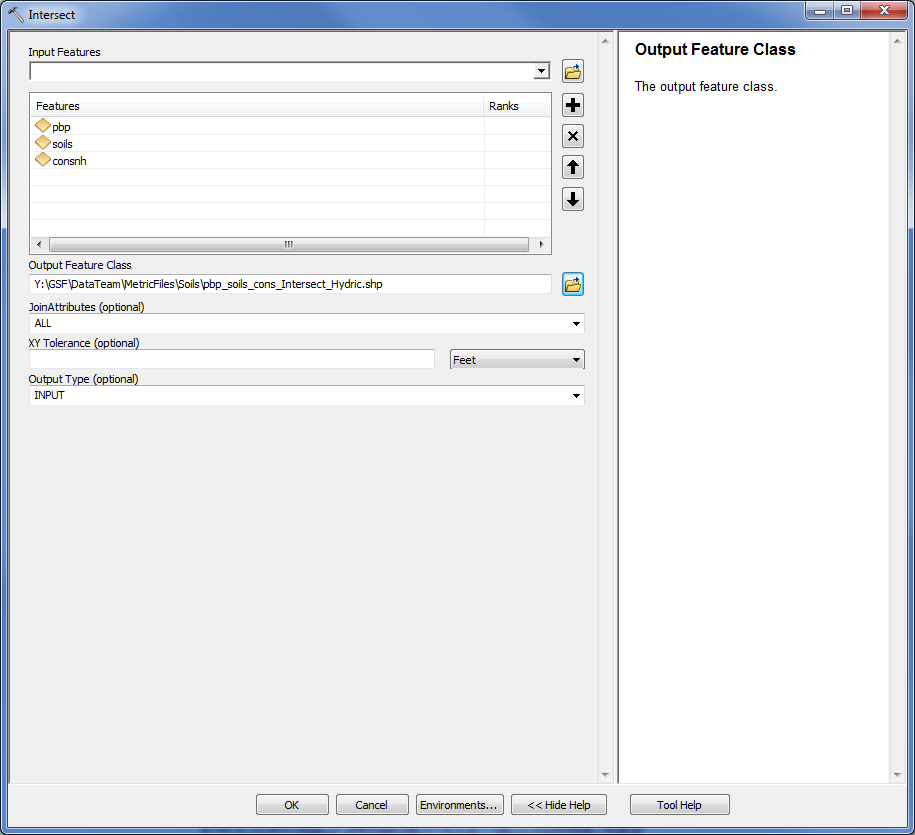
**Geography**: Municipality

**Methodology***:*

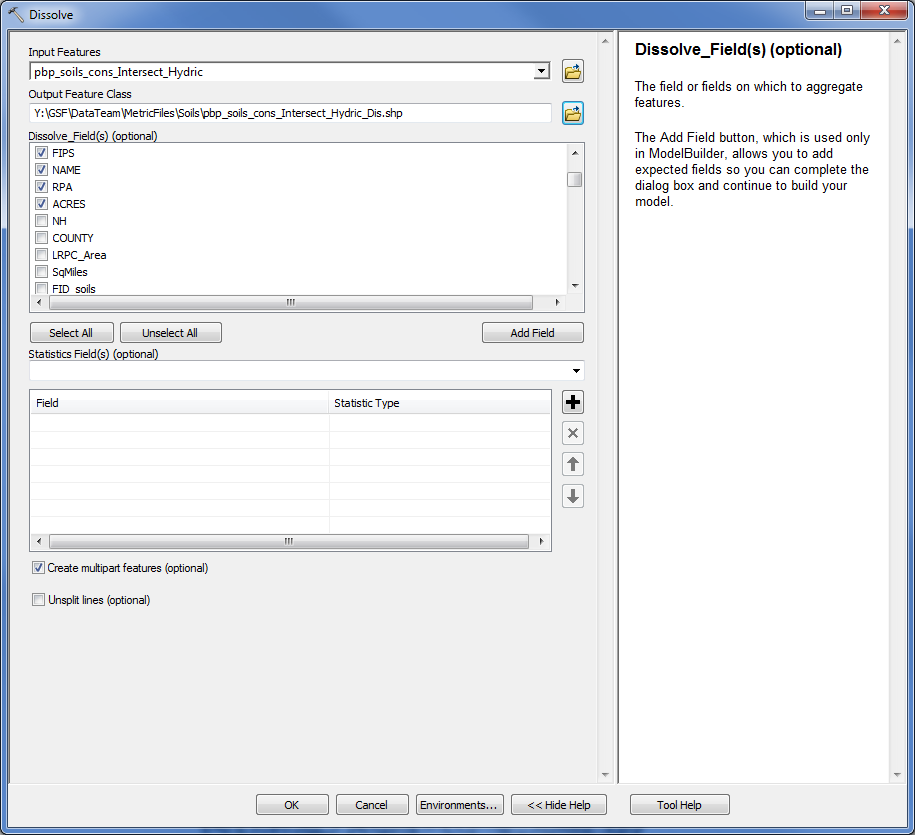
Disclaimer: There are edge match issues between counties in some areas

In GIS:

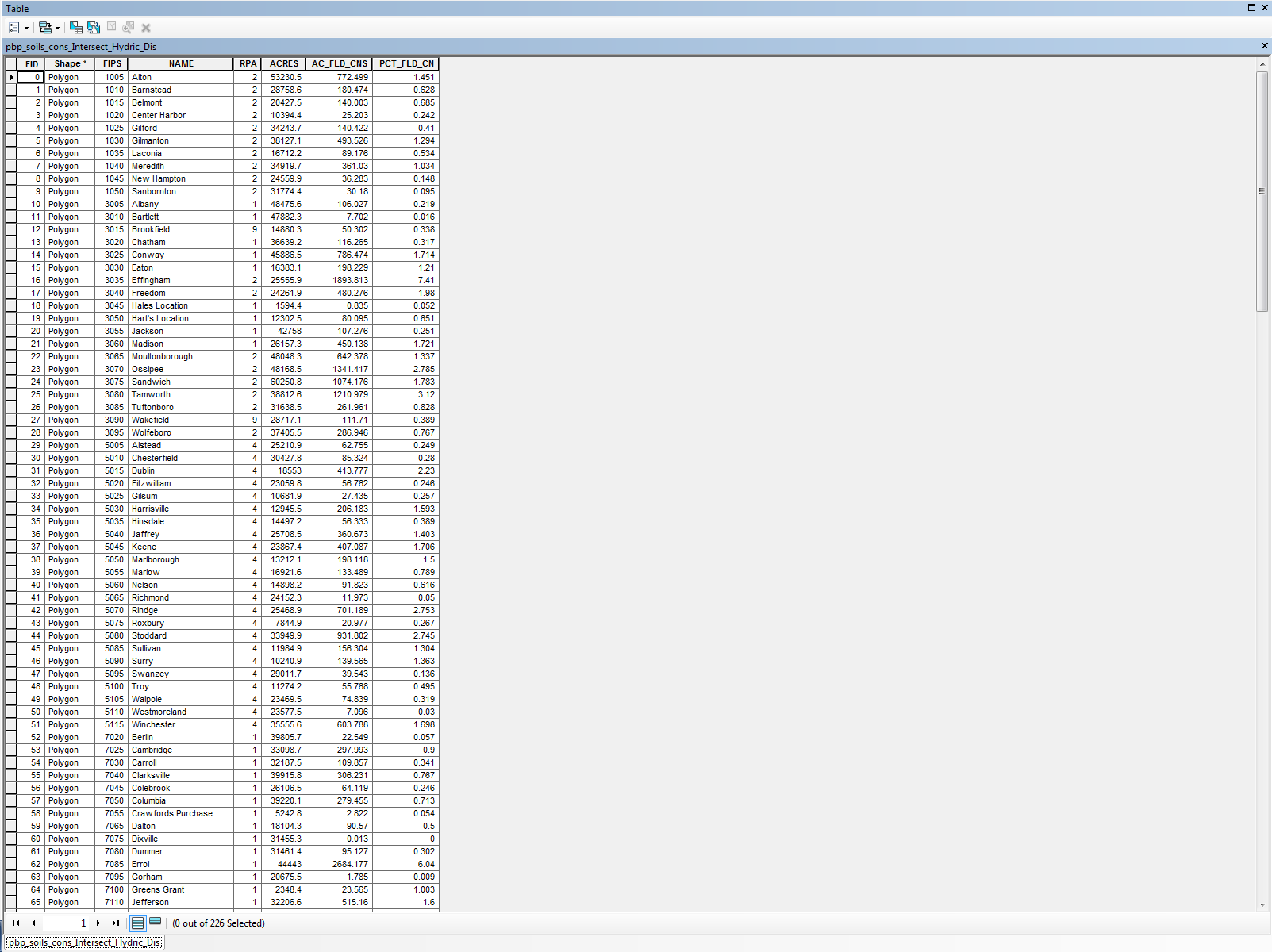
* Set Definition Query in soils layer to HdrcRating = All Hydric
* Set Definition Query in conservation lands layer to LEVEL = 1
* Perform INTERSECT on political boundaries, soils, and conservation lands



* Perform DISSOLVE on intersected layer, set Dissolved Fields to FIPS, NAME, RPA, ACRES



* Add new field (AC\_FLD\_CNS) to the dissolved layer to determine the acreage of important wildlife habitat in conservation
  + Calculate Geometry: Acres for field (AC\_ FLD \_CNS)
* Add new field (PCT\_ FLD \_CN) to dissolved layer to determine the percentage of important wildlife habitat in conservation
  + Field Calculator: PCT\_ FLD \_CN = [AC\_ FLD \_CNS]/[ACRES] \* 100



**Documentation Author**: M. Therrien, LRPC

# Variable: Forest Lands [ID# 605]

***Environment***

# 

**Description**: Acres and percent of forested land in municipality.

**Source\_Name**: NH Wildlife Action Plan 2010: Wildlife Habitat Ranked by Ecological Condition

**Source\_Date**: March 2010

**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=wap10_tiers>

**Source\_Name**: GRANIT New Hampshire Political Boundaries

**Source\_Date:** April 2009

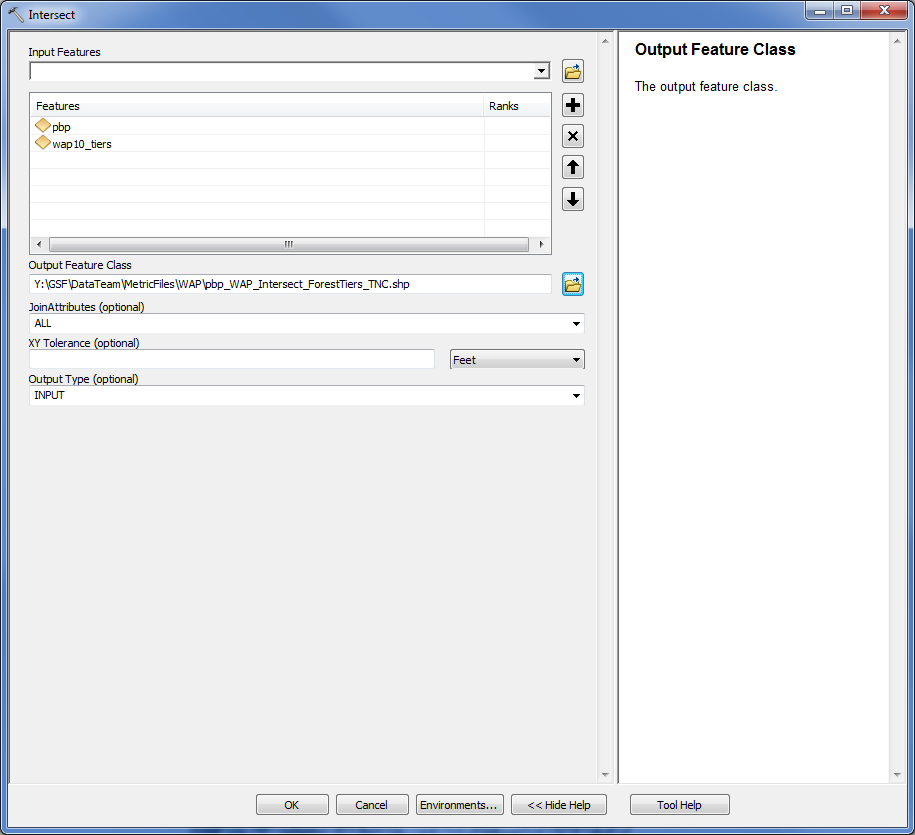
**Source\_URL**: <http://www.granit.unh.edu/data/search?dset=pb>

**Geography**: Municipality

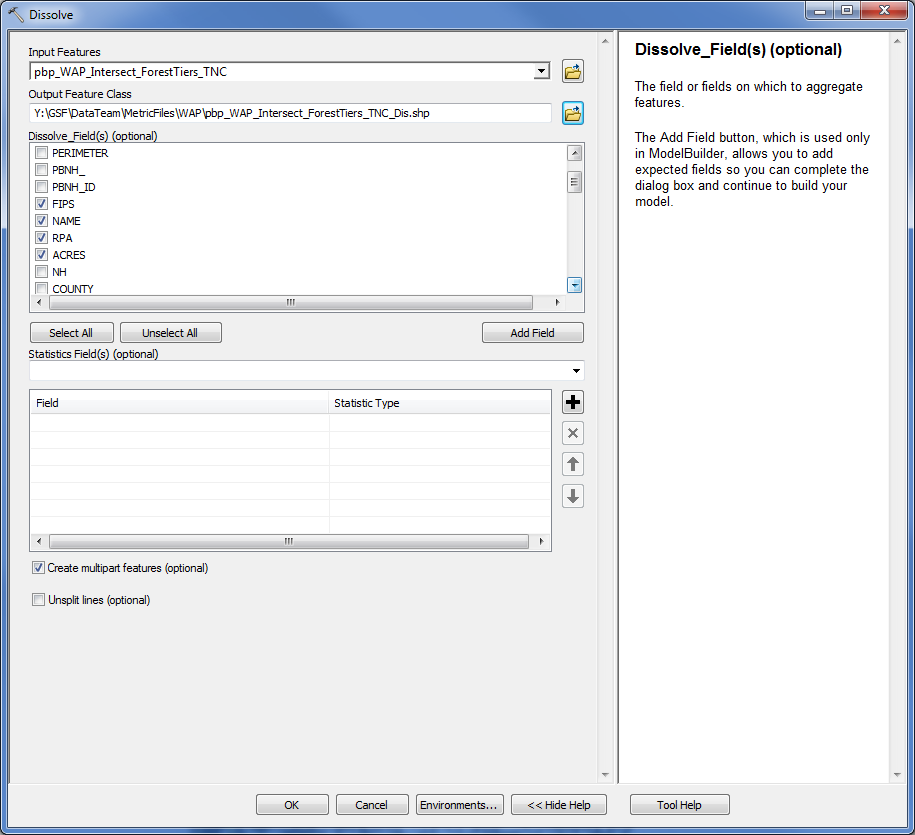
**Methodology:**

In GIS:

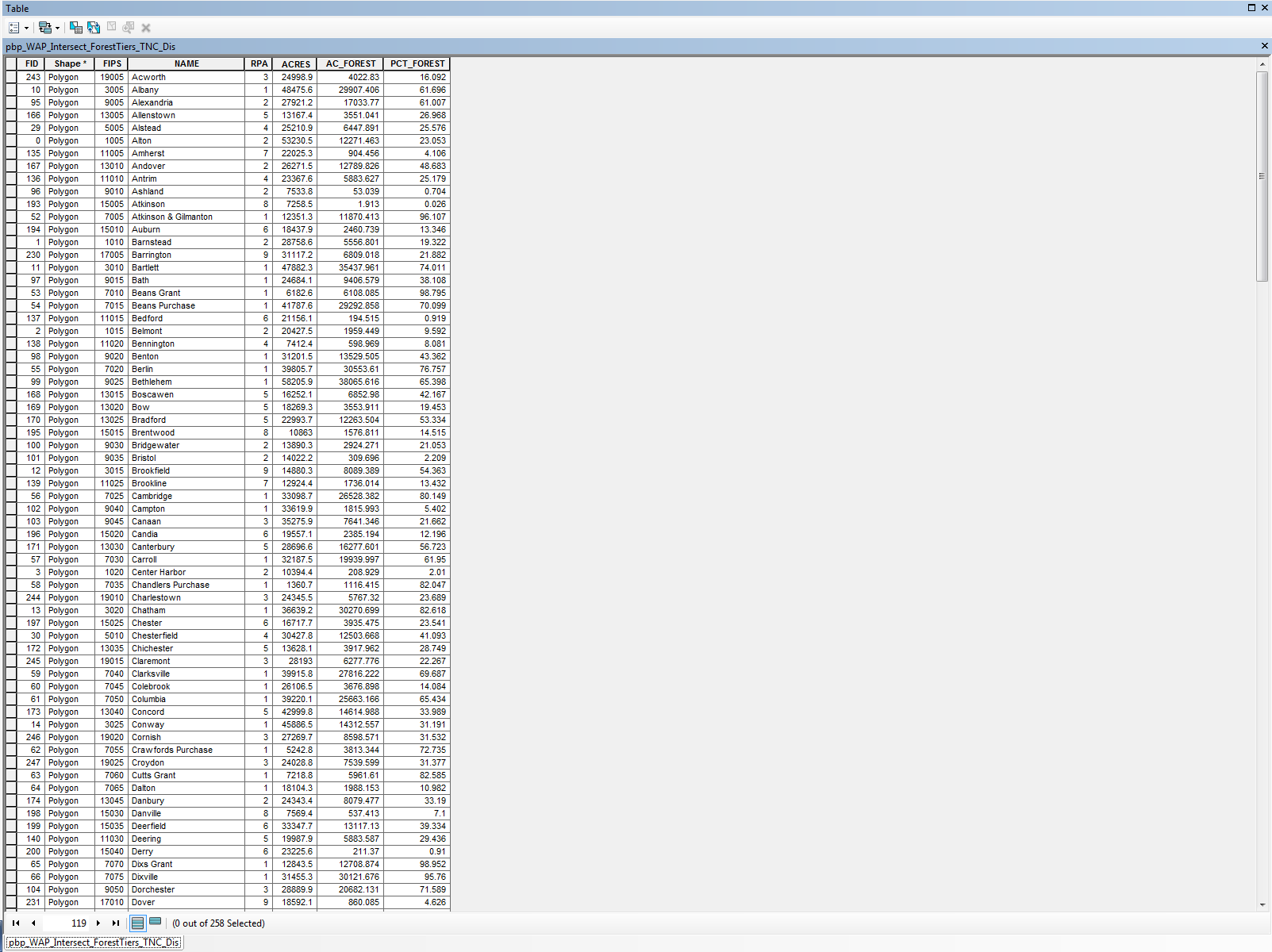
* Set Definition Query in wildlife action plan layer to PRIORITY = Tier 1 Matrix Forest, Tier 2 Matrix Forest, Tier 3 Matrix Forest, and TNCFOBLOCK
* Perform INTERSECT on political boundaries and wildlife action plan layers



* Perform DISSOLVE on intersected layer, set Dissolved Fields to FIPS, NAME, RPA, ACRES



* Add new field (AC\_FOREST) to the dissolved layer to determine the acreage of forested land in municipality
  + Calculate Geometry: Acres for field (AC\_ FOREST)
* Add new field (PCT\_ FOREST) to dissolved layer to determine the percentage of forested land in municipality
  + Field Calculator: PCT\_ FOREST = [AC\_ FOREST]/[ACRES] \* 100



**Documentation Author**: M. Therrien, LRPC

# Variable: Unemployment/Employment Rates [ID# 701]

***Economic Development***

# 

**Description**: Current rate and change in rate of employment.

**Source\_Name**: NH Employment Security, Economic and Labor Market Information Bureau

**Source\_Date**: 2000 to 2012

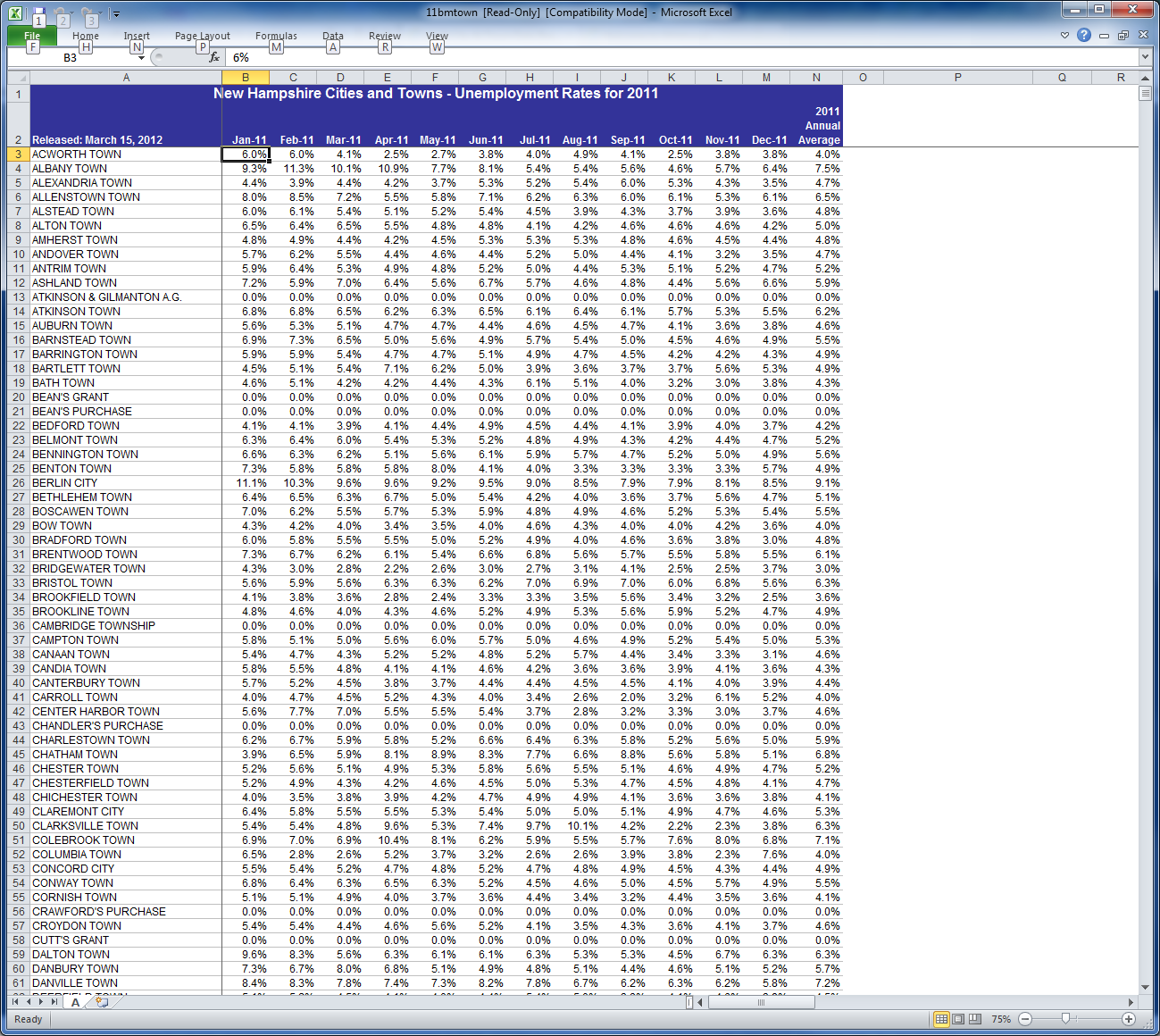
**Source\_URL**: <http://www.nhes.nh.gov/elmi/statistics/candt-arch.htm>

**Geography**: Municipality

**Methodology**:

This link will take user to New Hampshire Data & Statistics – Labor Force & Unemployment Data Archive webpage.

Here the user can view formatted MS Excel spreadsheets that contain the Monthly and Annual Average unemployment rates for all municipalities for the years of 2000 through 2012.



**Alternative Source\_Name**: NH Employment Security, Economic and Labor Market Information Bureau, NHetwork

**Alternative Source\_Date**: 2000 to 2012

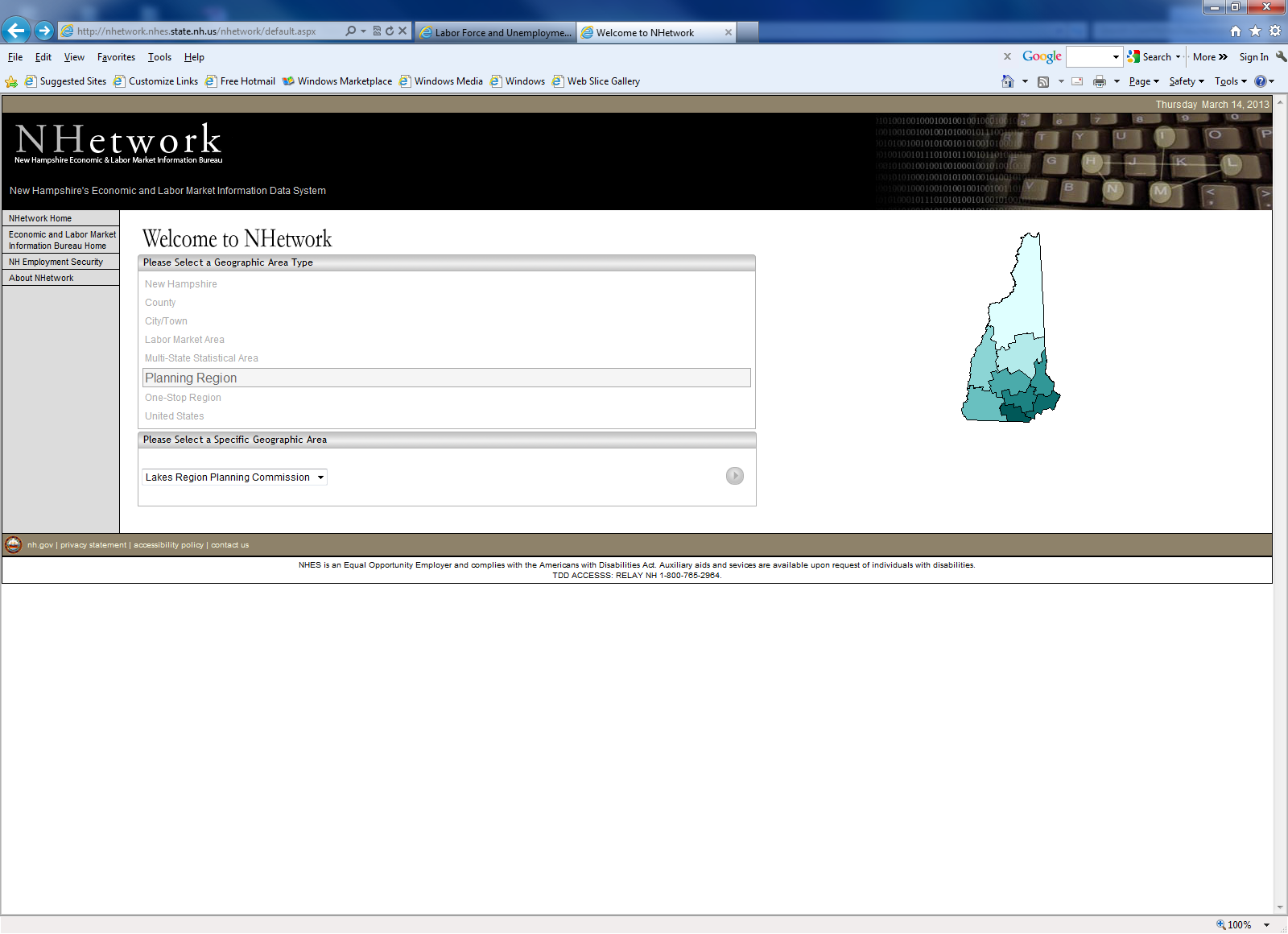
**Alternative Source\_URL**: <http://nhetwork.nhes.state.nh.us/nhetwork>

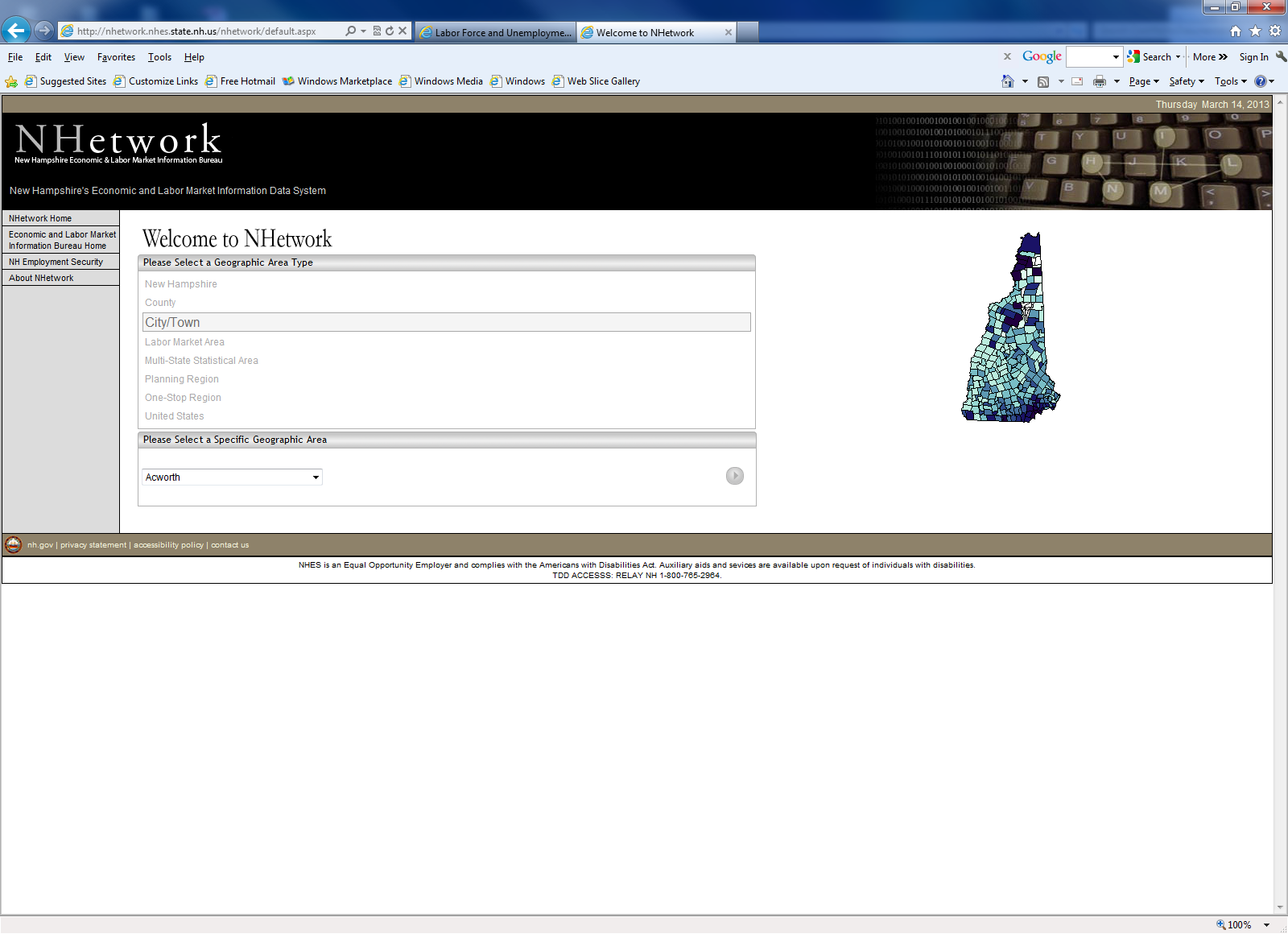
**Geography**: Labor Market Area, Planning Region, or individual Municipality

This link will take user to New Hampshire’s Economic and Labor Market Information Data System.

To view Labor Force and Unemployment data:

1) Choose Geographic Area Type



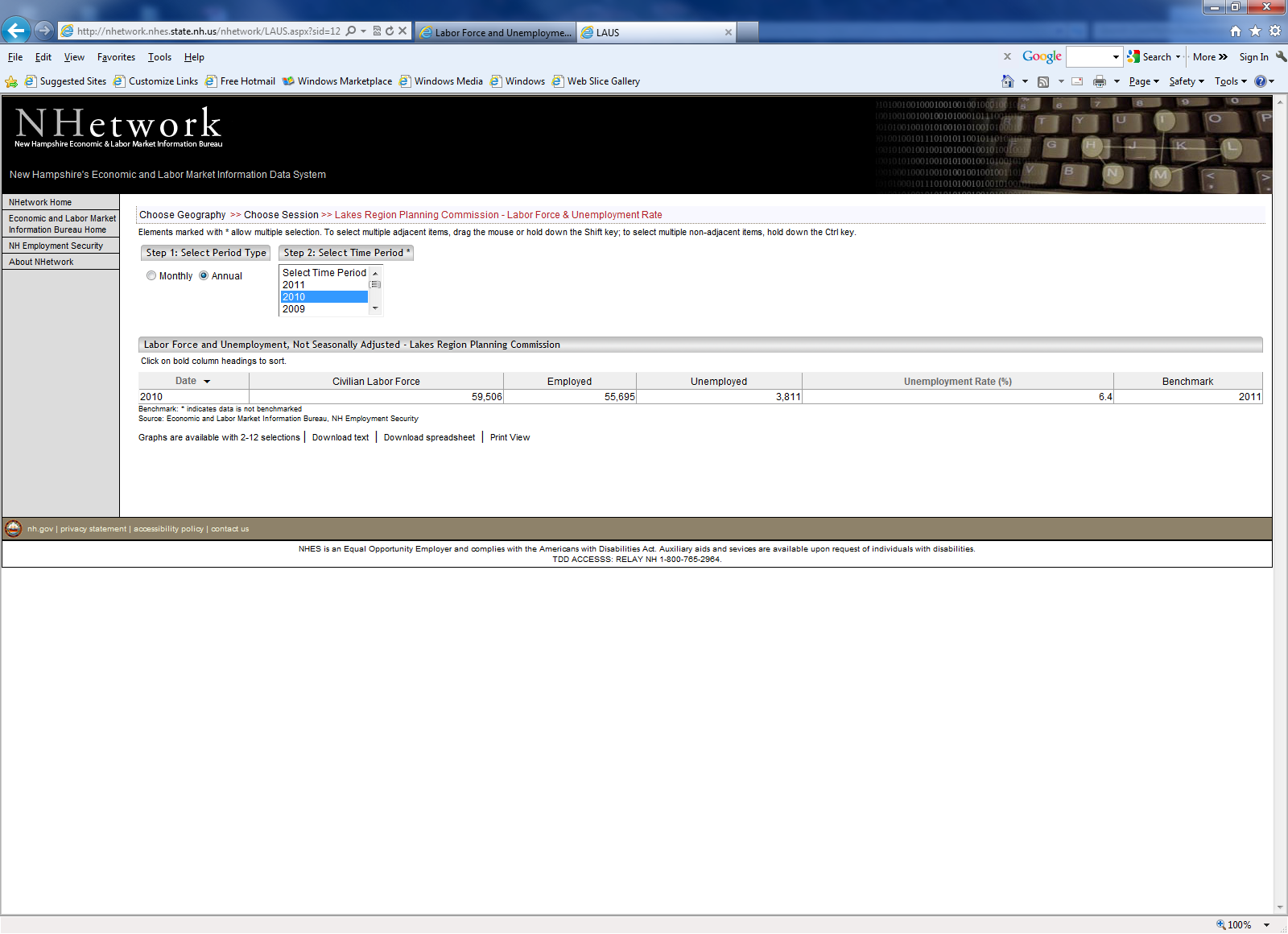


2) Choose Session > Unemployment Rate and Labor Force

3) Step 1: Select Period Type (Monthly or Annual)

Step 2: Select Time Period (1990 - 2012)

Data will is presented in table format reporting numbers for Civilian Labor Force, Employed, Unemployed, and Unemployment Rate (%).



Data can be downloaded as a text file, or spreadsheet.

**Documentation Author**: M. Therrien, LRPC

# Variable: Median Household Income [ID# 702]

***Economic Development***

**Description**: Median household income and per capita income.

**Source\_Name**: US Census Bureau – American Community Survey (ACS)

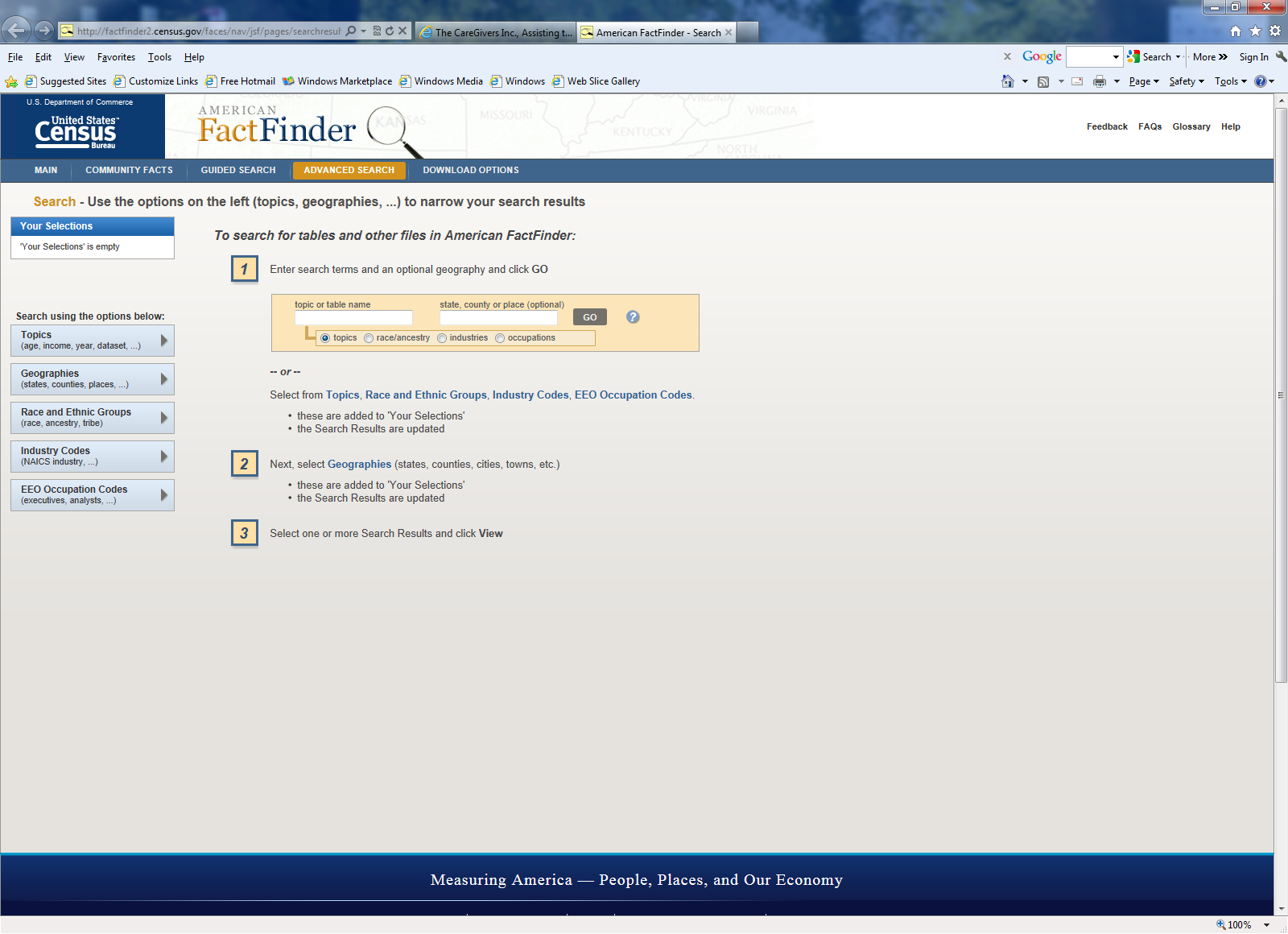
**Source\_Date**: 2011

**Source\_URL**: <http://factfinder2.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t#none>

**Geography**: Municipality

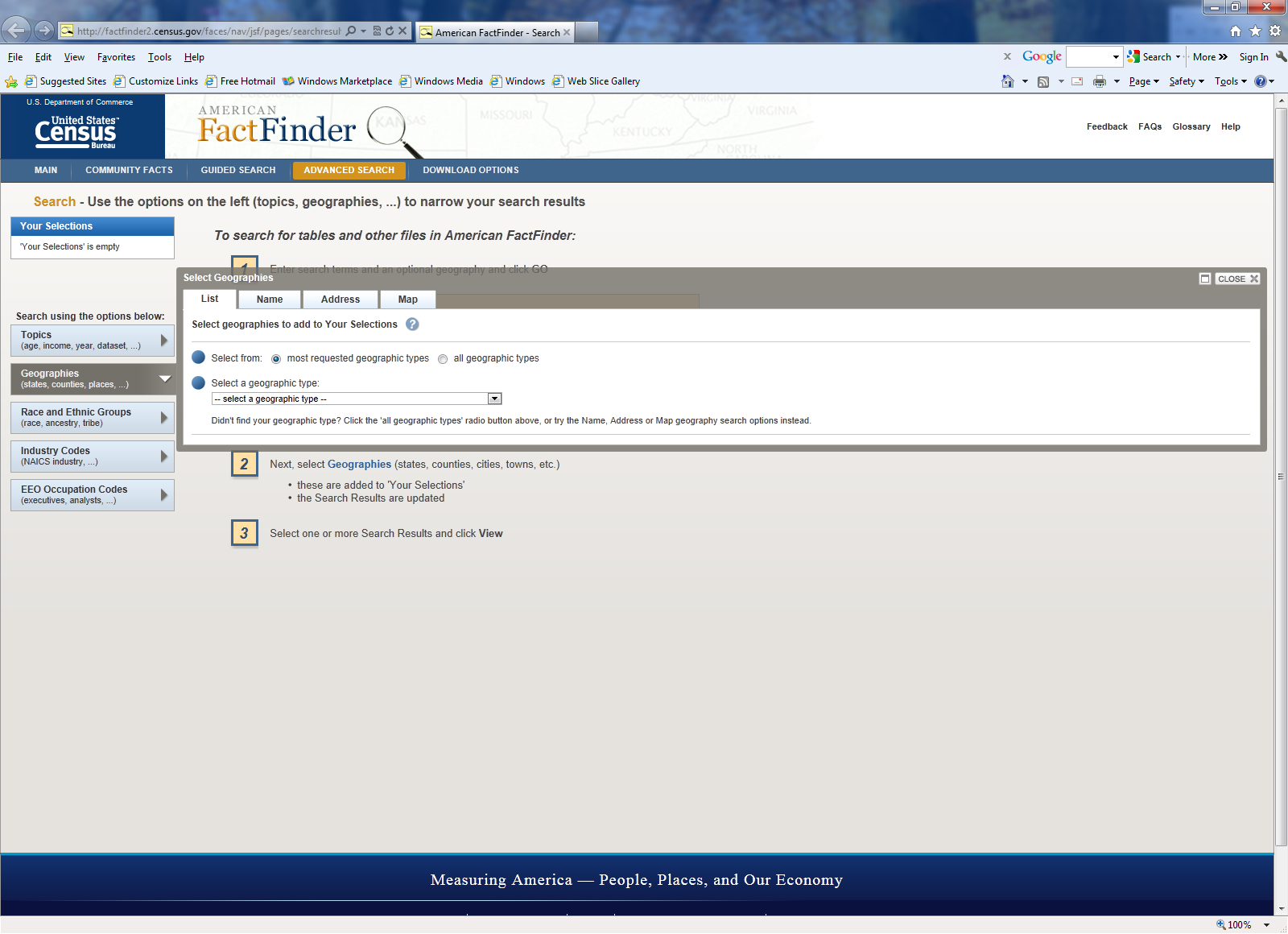
**Methodology**:

This link will take user to the US Census Bureau American Fact Finder search page.



1) Select Geographies

Pop-up dialog box will display



Under the List tab:

2) Select from: most requested geographic types

3) Select a geographic type: Place – 160

4) Select a state: New Hampshire

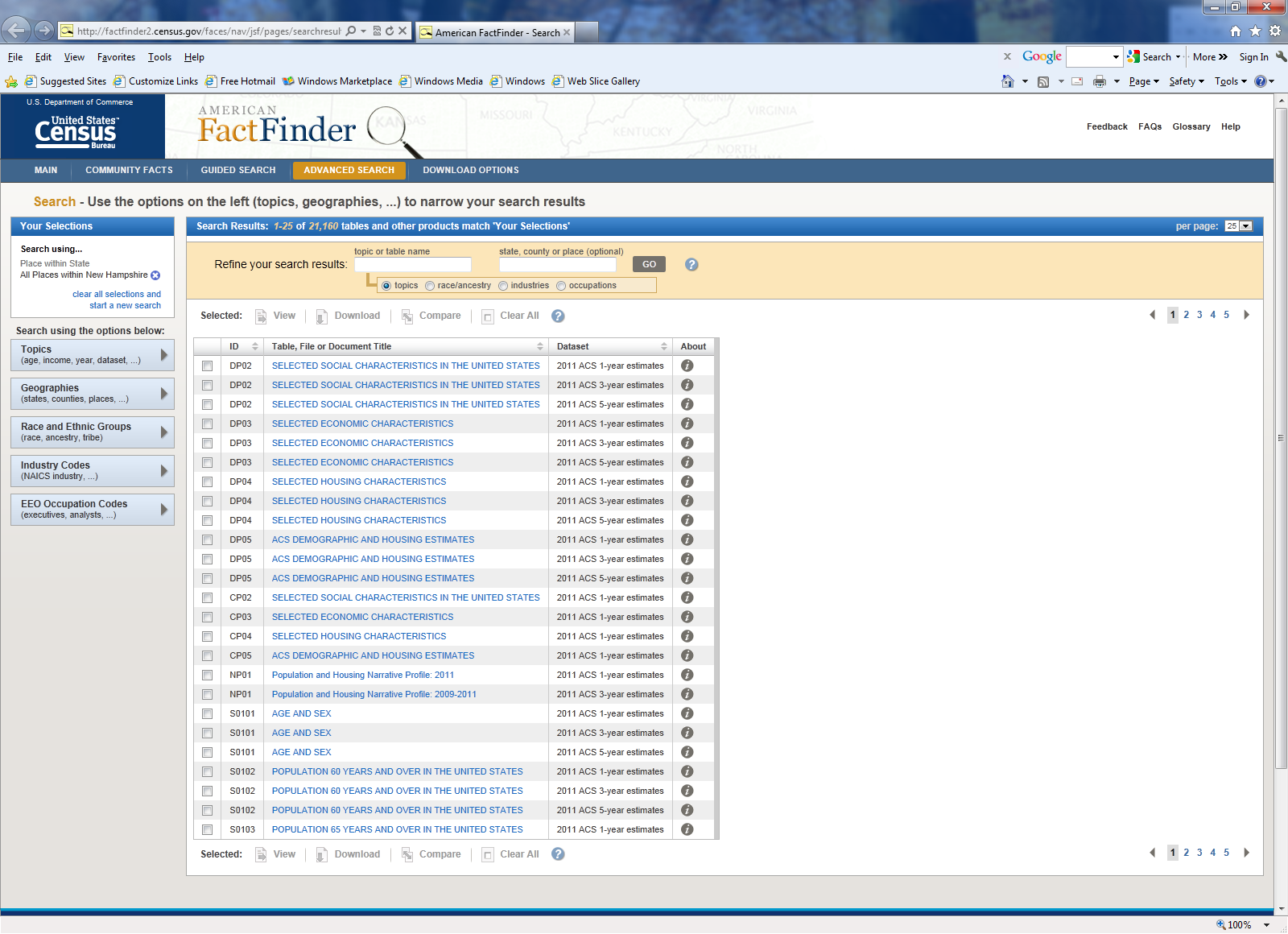
5) Select one or more geographic areas: All Places within New Hampshire (for all municipalities)

-or- you can select individual municipalities

Close dialog box.

In the Search Results:

6) Select the Table, File or Document Title: Selected Economic Characteristics for Dataset = 2011 ACS 5-year estimates



In Table View:

7) Scroll table down to Subject = Income and Benefits

8) Section = Median Household Income (Dollars)

Information given for Estimate & Margin of Error for municipalities chosen in step 5

9) Per capita income (Dollars) information is located in same section, below Families



**Documentation Author**: M. Therrien, LRPC

# Variable: Age Distribution of Workforce (Young Persons in the Workforce) [ID# 703]

***Economic Development***

**Description**: Percent of workforce in various age categories.

**Source\_Name**: 2009-2011 American Community Survey 3-Year Estimates

**Source\_Date**: 2009-2011

**Source\_URL**: http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml

**Geography**: County; Municipality optional for larger communities with reasonable margin of error. Be sure to look at the margin of error.

**Methodology***:*

Search for “labor force”, then “age” in appropriate county, choose table ID B23001 for 3 year estimate. Sum the totals and % in labor force for the categories shown in the sample below:

Age Distribution of Labor Force, Coos County 007

|  |  |  |
| --- | --- | --- |
| Age Category | Estimated Number in Labor Force | % in Total Force in Age Category |
| 16-24 | 1791 | 9.9 |
| 25-34 | 2543 | 14.0 |
| 35-44 | 3231 | 17.8 |
| 45-54 | 4519 | 24.9 |
| 55-64 | 5172 | 28.5 |
| 65 and over | 908 | 5.0 |
| Total | 18,164 |  |

Source: 2009-2011 American Community Survey 3-Year Estimates, Table B23001

**Documentation Author**: Tara Bamford, North Country Council

# Variable: Educational Attainment [ID# 704]

***Economic Development***

**Description**: Educational Attainment for various age categories

**Source\_Name**: 2007-2011 American Community Survey 5-Year Estimates

**Source\_Date**: 2007-2011

**Source\_URL**: http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml

**Geography**: County; Municipality optional for larger communities with reasonable margin of error. Be sure to look at the margin of error.

**Methodology***:*

Search for educational attainment in appropriate county, choose table ID S1501 for 5 year estimate. At a minimum, report for the categories shown in the sample below:

Educational Attainment By Age, Coos County

|  |  |  |  |
| --- | --- | --- | --- |
| Age Category | % High School Graduate or Higher | % Bachelors Degree or Higher | Total Number in Age category |
| 18-24 | 79.3 | 3.2% | 2196 |
| 25-34 | 88.1 | 17.1% | 3234 |
| 35-44 | 89.5 | 15.4% | 4288 |
| 45-64 | 89.0 | 18.1% | 10756 |

Source: 2007-2011 American Community Survey 5-Year Estimates, Table S1501

**Documentation Author**: Tara Bamford, North Country Council

# Variable: Employment by Sector [ID# 705]

***Economic Development***

**Description**: Number of workers covered by unemployment insurance in region.

**Source\_Name**: NH Employment Security Economic and Labor Market Information Bureau, Covered Employment & Wages - Annual Averages

**Source\_Date**: 2011

**Source\_URL**: http://www.nhes.nh.gov/elmi/statistics/qcew-data.htm

**Geography**: All regions will include data for regional planning area. Optional tables include NH portion of Labor Market Areas.

**Methodology***:*

Reduce tables provided to NAICS 2 digit codes as shown in the following example:

North Country Council Planning Region - 1

Annual Average Employment 2011

|  |  |  |
| --- | --- | --- |
| **Goods-Producing Industries** | **5116** |  |
| Agriculture/Forestry/Fishing |  | 348 |
| Mining |  | 31 |
| Construction |  | 1616 |
| Manufacturing |  | 3122 |
| **Service-Providing Industries** | **29032** |  |
| Utilities |  | 190 |
| Wholesale Trade |  | 565 |
| Retail Trade |  | 7706 |
| Transportation and Warehousing |  | 779 |
| Information |  | 426 |
| Finance and Insurance |  | 722 |
| Real Estate and Rental and Leasing |  | 477 |
| Professional and Technical Service |  | 640 |
| Management of Companies/Enterprises |  | 427 |
| Administrative and Waste Services |  | 566 |
| Educational Services |  | 425 |
| Health Care and Social Assistance |  | 5904 |
| Arts, Entertainment, and Recreation |  | 1824 |
| Accommodation and Food Services |  | 7329 |
| Other Services Except Public Admin |  | 1051 |
| **Total Government** | **7696** |  |
|  |  |  |
| **TOTAL** | **41844** |  |

**Documentation Author**: Tara Bamford, North Country Council

# Variable: Employment Projections [ID# 706]

***Economic Development***

**Description**: Projected employment by occupational group.

**Source\_Name**: NH Employment Security Economic and Labor Market Information Bureau, Long-Term Occupational Projections 2010 – 2020

**Source\_Date**: January 2013

**Source\_URL**: http://www.nhes.nh.gov/elmi/products/proj.htm

**Geography**: Regional Planning Commission area.

**Methodology***:*

Use the following table:

[*http://www.nhes.nh.gov/elmi/products/documents/occ-projections-plan-reg.xls*](http://www.nhes.nh.gov/elmi/products/documents/occ-projections-plan-reg.xls)

The rows and columns shown in the following example (a regional option would be to use the more detailed occupation categories/rows):

North Country Council Planning Region – 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 2010 | 2020 | Numeric | Percent |
| Occupational Group | Employment | Projected | Change | Change |
| Total Employment | 46,410 | 47,591 | 1,181 | 2.5% |
|  |  |  |  |  |
| Management Occupations | 2,982 | 2,918 | -64 | -2.1% |
| Business and Financial Operations Occupations | 1,111 | 1,159 | 48 | 4.3% |
| Computer and Mathematical Occupations | 320 | 351 | 31 | 9.7% |
| Architecture and Engineering Occupations | 257 | 253 | -4 | -1.6% |
| Life, Physical, and Social Science Occupations | 222 | 227 | 5 | 2.3% |
| Community and Social Services Occupations | 1,028 | 1,193 | 165 | 16.1% |
| Legal Occupations | 130 | 126 | -4 | -3.1% |
| Education, Training, and Library Occupations | 3,062 | 3,233 | 171 | 5.6% |
| Arts, Design, Entertainment, Sports, and Media Occupations | 495 | 489 | -6 | -1.2% |
| Healthcare Practitioners and Technical Occupations | 2,522 | 2,865 | 343 | 13.6% |
| Healthcare Support Occupations | 1,277 | 1,412 | 135 | 10.6% |
| Protective Service Occupations | 846 | 859 | 13 | 1.5% |
| Food Preparation and Serving Related Occupations | 5,421 | 5,574 | 153 | 2.8% |
| Building and Grounds Cleaning and Maintenance Occupations | 2,833 | 2,952 | 119 | 4.2% |
| Personal Care and Service Occupations | 2,112 | 2,351 | 239 | 11.3% |
| Sales and Related Occupations | 5,955 | 5,759 | -196 | -3.3% |
| Office and Administrative Support Occupations | 7,053 | 6,982 | -71 | -1.0% |
| Farming, Fishing, and Forestry Occupations | 452 | 426 | -26 | -5.8% |
| Construction and Extraction Occupations | 1,796 | 1,873 | 77 | 4.3% |
| Installation, Maintenance, and Repair Occupations | 1,958 | 2,024 | 66 | 3.4% |
| Production Occupations | 2,321 | 2,270 | -51 | -2.2% |
| Transportation and Material Moving Occupations | 2,257 | 2,295 | 38 | 1.7% |

**Documentation Author**: Tara Bamford, North Country Council

# Variable: Carbon Emissions [ID# 801]

***Climate Change and Energy Efficiency***

**Description**: Carbon dioxide (CO2), the main driver of climate change, has an atmospheric residence time ranging from decades to hundreds of years and will remain in the atmosphere for, on average, 100 years once released. Data tabulated in million metric tons of CO2 equivalents (MMTCO2e).

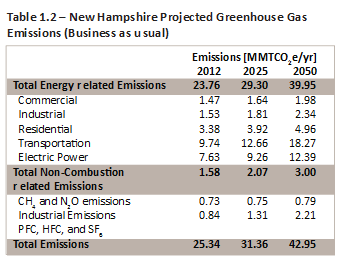
**Source\_Name**: The New Hampshire Climate Action Plan

**Source\_Date**: March 2009

**Source\_URL**:http://des.nh.gov/organization/divisions/air/tsb/tps/climate/action\_plan/documents/nhcap\_final.pdf

**Geography**: Statewide

**Methodology***:*



*Data was taken from the above table.*

Documentation Author: R. Pruyne, RPC

# Variable: Vehicle Miles Traveled – Total and Per Capita VMS [ID# 802]

***Climate Change and Energy Efficiency***

**Description**: Vehicle miles traveled (VMT) – the number of miles that vehicles (including light duty-vehicles [e.g., cars, small trucks], motorcycles, buses, and trucks) are driven – provide a valuable measure of the manner by which people and freight move around the state. In addition, VMT is a useful measure to evaluate the success of smart growth land use planning and integrated multi-modal transportation systems that are designed to reduce VMTs.

**Source\_Name**: Federal Highway Administration - Moving 12-Month VMT in Millions of Miles for 2011.

**Source\_Date**: 2011 (report compiled on 3/26/2012)

**Source\_URL**: http://www.fhwa.dot.gov/policyinformation/travel/tvt/history/

**Source\_Name**: ACS 2010 1 Year Estimate – DP05 – “Total Population”

**Source\_Date:** 2010

**Source\_URL**: http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS\_10\_1YR\_DP05&prodType=table

**Geography**: Statewide

**Methodology***:*

*Divide VMT (millions of miles) by population (people) = X (VMT per capita)*

**Documentation Author**: R. Pruyne, RPC

# Variable: Average Annual Household Energy Expenditures [ID# 803]

***Climate Change and Energy Efficiency***

**Description**: This indicator shows the Average Annual use of energy in dollars. This includes Coal, Natural Gas, Petroleum sources, Biomass (wood), and Retail Electricity.

**Source\_Name**: US Energy Information Administration Website – Table E10 – “Table E10. Residential Sector Energy Expenditure Estimates, 2010 (Million Dollars)

**Source\_Date**: 2010

**Source\_URL**: http://www.eia.gov/beta/state/seds/data.cfm?incfile=/state/seds/sep\_sum/html/sum\_ex\_res.html&sid=NH

**Source\_Name**: ACS 2010 1 Yr - Occupied housing units (Line 3 of Table DP04)

**Source\_Date:** 2010

**Source\_URL**:http://factfinder2.census.gov/bkmk/table/1.0/en/ACS/10\_1YR/DP04/0400000US33

**Geography**: State

**Methodology***:*

*Obtain total Energy used for the state. Obtain household estimate (Occupied Housing Units) for corresponding year. Divide Energy used by number of households. Note: Households= Housing Units – Vacant Housing Units.*

**Documentation Author**: R. Pruyne, RPC

# Variable: Energy Expenditure – Per Person Energy Expenditure for Transportation [ID# 804]

***Climate Change and Energy Efficiency***

**Description**: Amount of energy used per person in NH for the purposes of transportation.

**Source\_Name**: US Energy Information Administration Website – Table CT7. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2010, New Hampshire

**Source\_Date**: 2010

**Source\_URL**: http://www.eia.gov/state/seds/sep\_use/notes/use\_print.pdf

**Source\_Name**: ACS 2010 1 Year Estimate – DP05 – “Total Population”

**Source\_Date:** 2010

**Source\_URL**: http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS\_10\_1YR\_DP05&prodType=table

**Geography**: Statewide

**Methodology***:*

*Use the net energy use consumption for the transportation sector(in trillion BTU) from the US Energy Info. Admin. Website. Use State of NH Total Population estimate from ACS 2010 1 Yr Est Table DP05. Divide Transportation Energy used (Trillion BTUs) by Population (persons) = X (Trillion [10^12] BTUs per capita. Note: This is in BTUs and not cost. There are cost conversions, but they are highly variable over years and must consider the present-past-future value of money. I would not recommend tying this to money, BTUs are consistent across time, economy, outside economic conditions.*

***Important Definition:*** Transportation Sector:An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. In this report, natural gas used in the operation of natural gas pipelines is included in the transportation sector.

**Documentation Author**: R. Pruyne, RPC

# Appendix I. FIPS Codes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TOWN** | **CENSUS TOWN FIPS** | **COUNTY** | **COUNTY FIPS** | **RPC NAME** | **RPC CODE** |
| Acworth | 00260 | Sullivan | 019 | UVLSRPC | 3 |
| Albany | 00420 | Carroll | 003 | NCC | 1 |
| Alexandria | 00580 | Grafton | 009 | LRPC | 2 |
| Allenstown | 00660 | Merrimack | 013 | CNHRPC | 5 |
| Alstead | 00820 | Cheshire | 005 | SWRPC | 4 |
| Alton | 01060 | Belknap | 001 | LRPC | 2 |
| Amherst | 01300 | Hillsborough | 011 | NRPC | 7 |
| Andover | 01460 | Merrimack | 013 | LRPC | 2 |
| Antrim | 01700 | Hillsborough | 011 | SWRPC | 4 |
| Ashland | 02020 | Grafton | 009 | LRPC | 2 |
| Atkinson | 02340 | Rockingham | 015 | RPC | 8 |
| Atkinson & Gilmanton | 02420 | Coos | 007 | NCC | 1 |
| Auburn | 02820 | Rockingham | 015 | SNHPC | 6 |
| Barnstead | 03220 | Belknap | 001 | LRPC | 2 |
| Barrington | 03460 | Strafford | 017 | SRPC | 9 |
| Bartlett | 03700 | Carroll | 003 | NCC | 1 |
| Bath | 03940 | Grafton | 009 | NCC | 1 |
| Beans Grant | 04100 | Coos | 007 | NCC | 1 |
| Beans Purchase | 04260 | Coos | 007 | NCC | 1 |
| Bedford | 04500 | Hillsborough | 011 | SNHPC | 6 |
| Belmont | 04740 | Belknap | 001 | LRPC | 2 |
| Bennington | 04900 | Hillsborough | 011 | SWRPC | 4 |
| Benton | 05060 | Grafton | 009 | NCC | 1 |
| Berlin | 05140 | Coos | 007 | NCC | 1 |
| Bethlehem | 05460 | Grafton | 009 | NCC | 1 |
| Boscawen | 06260 | Merrimack | 013 | CNHRPC | 5 |
| Bow | 06500 | Merrimack | 013 | CNHRPC | 5 |
| Bradford | 06980 | Merrimack | 013 | CNHRPC | 5 |
| Brentwood | 07220 | Rockingham | 015 | RPC | 8 |
| Bridgewater | 07540 | Grafton | 009 | LRPC | 2 |
| Bristol | 07700 | Grafton | 009 | LRPC | 2 |
| Brookfield | 07940 | Carroll | 003 | SRPC | 9 |
| Brookline | 08100 | Hillsborough | 011 | NRPC | 7 |
| Cambridge | 08420 | Coos | 007 | NCC | 1 |
| Campton | 08660 | Grafton | 009 | NCC | 1 |
| Canaan | 08980 | Grafton | 009 | UVLSRPC | 3 |
| Candia | 09300 | Rockingham | 015 | SNHPC | 6 |
| Canterbury | 09860 | Merrimack | 013 | CNHRPC | 5 |
| Carroll | 10100 | Coos | 007 | NCC | 1 |
| Center Harbor | 10660 | Belknap | 001 | LRPC | 2 |
| Chandlers Purchase | 11220 | Coos | 007 | NCC | 1 |
| Charlestown | 11380 | Sullivan | 019 | UVLSRPC | 3 |
| Chatham | 11780 | Carroll | 003 | NCC | 1 |
| Chester | 12100 | Rockingham | 015 | SNHPC | 6 |
| Chesterfield | 12260 | Cheshire | 005 | SWRPC | 4 |
| Chichester | 12420 | Merrimack | 013 | CNHRPC | 5 |
| Claremont | 12900 | Sullivan | 019 | UVLSRPC | 3 |
| Clarksville | 13220 | Coos | 007 | NCC | 1 |
| Colebrook | 13780 | Coos | 007 | NCC | 1 |
| Columbia | 13940 | Coos | 007 | NCC | 1 |
| Concord | 14200 | Merrimack | 013 | CNHRPC | 5 |
| Conway | 14660 | Carroll | 003 | NCC | 1 |
| Cornish | 15060 | Sullivan | 019 | UVLSRPC | 3 |
| Crawfords Purchase | 16100 | Coos | 007 | NCC | 1 |
| Croydon | 16340 | Sullivan | 019 | UVLSRPC | 3 |
| Cutts Grant | 16660 | Coos | 007 | NCC | 1 |
| Dalton | 16820 | Coos | 007 | NCC | 1 |
| Danbury | 16980 | Merrimack | 013 | LRPC | 2 |
| Danville | 17140 | Rockingham | 015 | RPC | 8 |
| Deerfield | 17460 | Rockingham | 015 | SNHPC | 6 |
| Deering | 17780 | Hillsborough | 011 | CNHRPC | 5 |
| Derry | 17940 | Rockingham | 015 | SNHPC | 6 |
| Dixs Grant | 18340 | Coos | 007 | NCC | 1 |
| Dixville2 | 18420 | Coos | 007 | NCC | 1 |
| Dorchester | 18740 | Grafton | 009 | UVLSRPC | 3 |
| Dover | 18820 | Strafford | 017 | SRPC | 9 |
| Dublin | 19140 | Cheshire | 005 | SWRPC | 4 |
| Dummer | 19300 | Coos | 007 | NCC | 1 |
| Dunbarton | 19460 | Merrimack | 013 | CNHRPC | 5 |
| Durham | 19700 | Strafford | 017 | SRPC | 9 |
| East Kingston | 21380 | Rockingham | 015 | RPC | 8 |
| Easton | 22020 | Grafton | 009 | NCC | 1 |
| Eaton | 23380 | Carroll | 003 | NCC | 1 |
| Effingham | 23620 | Carroll | 003 | LRPC | 2 |
| Ellsworth | 23860 | Grafton | 009 | NCC | 1 |
| Enfield | 24340 | Grafton | 009 | UVLSRPC | 3 |
| Epping | 24660 | Rockingham | 015 | RPC | 8 |
| Epsom | 24900 | Merrimack | 013 | CNHRPC | 5 |
| Errol | 25140 | Coos | 007 | NCC | 1 |
| Ervings Location | 25180 | Coos | 007 | NCC | 1 |
| Exeter | 25380 | Rockingham | 015 | RPC | 8 |
| Farmington | 26020 | Strafford | 017 | SRPC | 7 |
| Fitzwilliam | 26500 | Cheshire | 005 | SWRPC | 4 |
| Francestown | 27140 | Hillsborough | 011 | SWRPC | 4 |
| Franconia | 27300 | Grafton | 009 | NCC | 1 |
| Franklin | 27380 | Merrimack | 013 | LRPC | 2 |
| Freedom | 27700 | Carroll | 003 | LRPC | 2 |
| Fremont | 27940 | Rockingham | 015 | RPC | 8 |
| Gilford | 28740 | Belknap | 001 | LRPC | 2 |
| Gilmanton | 28980 | Belknap | 001 | LRPC | 2 |
| Gilsum | 29220 | Cheshire | 005 | SWRPC | 4 |
| Goffstown | 29860 | Hillsborough | 011 | SNHPC | 6 |
| Gorham | 30260 | Coos | 007 | NCC | 1 |
| Goshen | 30500 | Sullivan | 019 | UVLSRPC | 3 |
| Grafton | 30820 | Grafton | 009 | UVLSRPC | 3 |
| Grantham | 31220 | Sullivan | 019 | UVLSRPC | 3 |
| Greenfield | 31540 | Hillsborough | 011 | SWRPC | 4 |
| Greenland | 31700 | Rockingham | 015 | RPC | 8 |
| Greens Grant | 31780 | Coos | 007 | NCC | 1 |
| Greenville | 31940 | Hillsborough | 011 | SWRPC | 4 |
| Groton | 32180 | Grafton | 009 | NCC | 1 |
| Hadleys Purchase | 32420 | Coos | 007 | NCC | 1 |
| Hales Location | 32500 | Carroll | 003 | NCC | 1 |
| Hampstead | 32900 | Rockingham | 015 | RPC | 8 |
| Hampton | 33060 | Rockingham | 015 | RPC | 8 |
| Hampton Falls | 33460 | Rockingham | 015 | RPC | 8 |
| Hancock | 33700 | Hillsborough | 011 | SWRPC | 4 |
| Hanover | 33860 | Grafton | 009 | UVLSRPC | 3 |
| Harrisville | 34420 | Cheshire | 005 | SWRPC | 4 |
| Hart's Location | 34500 | Carroll | 003 | NCC | 1 |
| Haverhill | 34820 | Grafton | 009 | NCC | 1 |
| Hebron | 35220 | Grafton | 009 | LRPC | 2 |
| Henniker | 35540 | Merrimack | 013 | CNHRPC | 5 |
| Hill | 35860 | Merrimack | 013 | LRPC | 2 |
| Hillsborough | 36180 | Hillsborough | 011 | CNHRPC | 5 |
| Hinsdale | 36660 | Cheshire | 005 | SWRPC | 4 |
| Holderness | 36900 | Grafton | 009 | LRPC | 2 |
| Hollis | 37140 | Hillsborough | 011 | NRPC | 7 |
| Hooksett | 37300 | Merrimack | 013 | SNHPC | 6 |
| Hopkinton | 37540 | Merrimack | 013 | CNHRPC | 5 |
| Hudson | 37940 | Hillsborough | 011 | NRPC | 7 |
| Jackson | 38260 | Carroll | 003 | NCC | 1 |
| Jaffrey | 38500 | Cheshire | 005 | SWRPC | 4 |
| Jefferson | 38820 | Coos | 007 | NCC | 1 |
| Keene | 39300 | Cheshire | 005 | SWRPC | 4 |
| Kensington | 39780 | Rockingham | 015 | RPC | 8 |
| Kilkenny | 39940 | Coos | 007 | NCC | 1 |
| Kingston | 40100 | Rockingham | 015 | RPC | 8 |
| Laconia | 40180 | Belknap | 001 | LRPC | 2 |
| Lancaster | 40420 | Coos | 007 | NCC | 1 |
| Landaff | 40660 | Grafton | 009 | NCC | 1 |
| Langdon | 40900 | Sullivan | 019 | SWRPC | 4 |
| Lebanon | 41300 | Grafton | 009 | UVLSRPC | 3 |
| Lee | 41460 | Strafford | 017 | SRPC | 9 |
| Lempster | 41700 | Sullivan | 019 | UVLSRPC | 3 |
| Lincoln | 41860 | Grafton | 009 | NCC | 1 |
| Lisbon | 42020 | Grafton | 009 | NCC | 1 |
| Litchfield | 42260 | Hillsborough | 011 | NRPC | 7 |
| Littleton | 42580 | Grafton | 009 | NCC | 1 |
| Livermore | 42820 | Grafton | 009 | NCC | 1 |
| Londonderry | 43220 | Rockingham | 015 | SNHPC | 6 |
| Loudon | 43380 | Merrimack | 013 | CNHRPC | 5 |
| Low & Burbanks | 43620 | Coos | 007 | NCC | 1 |
| Lyman | 44100 | Grafton | 009 | NCC | 1 |
| Lyme | 44260 | Grafton | 009 | UVLSRPC | 3 |
| Lyndeborough | 44580 | Hillsborough | 011 | NRPC | 7 |
| Madbury | 44820 | Strafford | 017 | SRPC | 9 |
| Madison | 45060 | Carroll | 003 | NCC | 1 |
| Manchester | 45140 | Hillsborough | 011 | SNHPC | 6 |
| Marlborough | 45460 | Cheshire | 005 | SWRPC | 4 |
| Marlow | 45700 | Cheshire | 005 | SWRPC | 4 |
| Martins Location | 46020 | Coos | 007 | NCC | 1 |
| Mason | 46260 | Hillsborough | 011 | NRPC | 7 |
| Meredith | 47140 | Belknap | 001 | LRPC | 2 |
| Merrimack | 47540 | Hillsborough | 011 | NRPC | 7 |
| Middleton | 47700 | Strafford | 017 | SRPC | 9 |
| Milan | 47860 | Coos | 007 | NCC | 1 |
| Milford | 48020 | Hillsborough | 011 | NRPC | 7 |
| Millsfield | 48260 | Coos | 007 | NCC | 1 |
| Milton | 48660 | Strafford | 017 | SRPC | 9 |
| Monroe | 48980 | Grafton | 009 | NCC | 1 |
| Mont Vernon | 49140 | Hillsborough | 011 | NRPC | 7 |
| Moultonborough | 49380 | Carroll | 003 | LRPC | 2 |
| Nashua | 50260 | Hillsborough | 011 | NRPC | 7 |
| Nelson | 50580 | Cheshire | 005 | SWRPC | 4 |
| New Boston | 50740 | Hillsborough | 011 | SNHPC | 6 |
| New Castle | 50980 | Rockingham | 015 | RPC | 8 |
| New Durham | 51220 | Strafford | 017 | SRPC | 9 |
| New Hampton | 51540 | Belknap | 001 | LRPC | 2 |
| New Ipswich | 51940 | Hillsborough | 011 | SWRPC | 4 |
| New London | 52100 | Merrimack | 013 | UVLSRPC | 3 |
| Newbury | 50900 | Merrimack | 013 | UVLSRPC | 3 |
| Newfields | 51380 | Rockingham | 015 | RPC | 8 |
| Newington | 51620 | Rockingham | 015 | RPC | 8 |
| Newmarket | 52340 | Rockingham | 015 | SRPC | 9 |
| Newport | 52580 | Sullivan | 019 | UVLSRPC | 3 |
| Newton | 52900 | Rockingham | 015 | RPC | 8 |
| North Hampton | 54580 | Rockingham | 015 | RPC | 8 |
| Northfield | 54260 | Merrimack | 013 | LRPC | 2 |
| Northumberland | 56100 | Coos | 007 | NCC | 1 |
| Northwood | 56820 | Rockingham | 015 | SRPC | 9 |
| Nottingham | 57460 | Rockingham | 015 | SRPC | 9 |
| Odell | 57860 | Coos | 007 | NCC | 1 |
| Orange | 58340 | Grafton | 009 | UVLSRPC | 3 |
| Orford | 58500 | Grafton | 009 | UVLSRPC | 3 |
| Ossipee | 58740 | Carroll | 003 | LRPC | 2 |
| Pelham | 59940 | Hillsborough | 011 | NRPC | 7 |
| Pembroke | 60020 | Merrimack | 013 | CNHRPC | 5 |
| Peterborough | 60580 | Hillsborough | 011 | SWRPC | 4 |
| Piermont | 61060 | Grafton | 009 | UVLSRPC | 3 |
| Pinkham's Grant | 61620 | Coos | 007 | NCC | 1 |
| Pittsburg | 61780 | Coos | 007 | NCC | 1 |
| Pittsfield | 61940 | Merrimack | 013 | CNHRPC | 5 |
| Plainfield | 62340 | Sullivan | 019 | UVLSRPC | 3 |
| Plaistow | 62500 | Rockingham | 015 | RPC | 8 |
| Plymouth | 62660 | Grafton | 009 | NCC | 1 |
| Portsmouth | 62900 | Rockingham | 015 | RPC | 8 |
| Randolph | 63860 | Coos | 007 | NCC | 1 |
| Raymond | 64020 | Rockingham | 015 | SNHPC | 6 |
| Richmond | 64420 | Cheshire | 005 | SWRPC | 4 |
| Rindge | 64580 | Cheshire | 005 | SWRPC | 4 |
| Rochester | 65140 | Strafford | 017 | SRPC | 9 |
| Rollinsford | 65540 | Strafford | 017 | SRPC | 9 |
| Roxbury | 65700 | Cheshire | 005 | SWRPC | 4 |
| Rumney | 65940 | Grafton | 009 | NCC | 1 |
| Rye | 66180 | Rockingham | 015 | RPC | 8 |
| Salem | 66660 | Rockingham | 015 | RPC | 8 |
| Salisbury | 66980 | Merrimack | 013 | CNHRPC | 5 |
| Sanbornton | 67300 | Belknap | 001 | LRPC | 2 |
| Sandown | 67620 | Rockingham | 015 | RPC | 8 |
| Sandwich | 67780 | Carroll | 003 | LRPC | 2 |
| Sargents Purchase | 67860 | Coos | 007 | NCC | 1 |
| Seabrook | 68260 | Rockingham | 015 | RPC | 8 |
| Second College Grant | 68500 | Coos | 007 | NCC | 1 |
| Sharon | 68820 | Hillsborough | 011 | SWRPC | 4 |
| Shelburne | 68980 | Coos | 007 | NCC | 1 |
| Somersworth | 69940 | Strafford | 017 | SRPC | 9 |
| South Hampton | 71140 | Rockingham | 015 | RPC | 8 |
| Springfield | 72740 | Sullivan | 019 | UVLSRPC | 3 |
| Stark | 73060 | Coos | 007 | NCC | 1 |
| Stewartstown | 73380 | Coos | 007 | NCC | 1 |
| Stoddard | 73700 | Cheshire | 005 | SWRPC | 4 |
| Strafford | 73860 | Strafford | 017 | SRPC | 9 |
| Stratford | 74180 | Coos | 007 | NCC | 1 |
| Stratham | 74340 | Rockingham | 015 | RPC | 8 |
| Success | 74500 | Coos | 007 | NCC | 1 |
| Sugar Hill | 74740 | Grafton | 009 | NCC | 1 |
| Sullivan | 74900 | Cheshire | 005 | SWRPC | 4 |
| Sunapee | 75060 | Sullivan | 019 | UVLSRPC | 3 |
| Surry | 75300 | Cheshire | 005 | SWRPC | 4 |
| Sutton | 75460 | Merrimack | 013 | CNHRPC | 5 |
| Swanzey | 75700 | Cheshire | 005 | SWRPC | 4 |
| Tamworth | 76100 | Carroll | 003 | LRPC | 2 |
| Temple | 76260 | Hillsborough | 011 | SWRPC | 4 |
| Thompson & Meserve | 76580 | Coos | 007 | NCC | 1 |
| Thornton | 76740 | Grafton | 009 | NCC | 1 |
| Tilton | 77060 | Belknap | 001 | LRPC | 2 |
| Troy | 77380 | Cheshire | 005 | SWRPC | 4 |
| Tuftonboro | 77620 | Carroll | 003 | LRPC | 2 |
| Unity | 77940 | Sullivan | 019 | UVLSRPC | 3 |
| Wakefield | 78180 | Carroll | 003 | SRPC | 9 |
| Walpole | 78420 | Cheshire | 005 | SWRPC | 4 |
| Warner | 78580 | Merrimack | 013 | CNHRPC | 5 |
| Warren | 78740 | Grafton | 009 | NCC | 1 |
| Washington | 78980 | Sullivan | 019 | UVLSRPC | 3 |
| Waterville Valley | 79380 | Grafton | 009 | NCC | 1 |
| Weare | 79780 | Hillsborough | 011 | SNHPC | 6 |
| Webster | 80020 | Merrimack | 013 | CNHRPC | 5 |
| Wentworth | 80500 | Grafton | 009 | NCC | 1 |
| Wentworths Location | 80740 | Coos | 007 | NCC | 1 |
| Westmoreland | 82660 | Cheshire | 005 | SWRPC | 4 |
| Whitefield | 84420 | Coos | 007 | NCC | 1 |
| Wilmot | 84900 | Merrimack | 013 | UVLSRPC | 3 |
| Wilton | 85220 | Hillsborough | 011 | NRPC | 7 |
| Winchester | 85540 | Cheshire | 005 | SWRPC | 4 |
| Windham | 85780 | Rockingham | 015 | SNHPC | 6 |
| Windsor | 85940 | Hillsborough | 011 | SWRPC | 4 |
| Wolfeboro | 86420 | Carroll | 003 | LRPC | 2 |
| Woodstock | 87060 | Grafton | 009 | NCC | 1 |