

Documentation for the nurses web tool

Benjamin Noland

Contents

1	Introduction	1
2	Details of the data	1
3	Working with the tool	3
3.1	Overview of the interface	3
3.2	Working with trends	3
3.3	Working with maps	4
3.4	Downloading the data	4

1 Introduction

This web tool allows you to explore trends in union membership and union contract coverage for registered nurses in the United States. You can use the tool to generate trend plots and chloropleth maps showing how these quantities change over time, filtered and/or grouped according to a variety of demographics (detailed below). The tool uses data derived from the Current Population Survey (CPS) public use microdata. For background information on the CPS, see [ADD REFERENCE].

2 Details of the data

The tool operates on data derived from the Current Population Survey (CPS) public use microdata (see [ADD REFERENCE] for information on the raw CPS data). Each entry in the data used by the tool corresponds to an individual interviewed as part of the CPS, and includes various demographic

data on that individual, as well as flags indicating whether the individual is a union member or covered by a union contract. Each entry also includes the year in which the individual was interviewed, and a statistical weight used to calculate union membership and union contract coverage proportions.

The following are descriptions of the variables in the data used by the tool, including the possible values or levels that a particular variable can assume:

year	The year the individual was interviewed.
sex	The individual's sex. This is derived from the CPS variable PESEX. Levels: Male, Female
member	Union membership flag. TRUE if the individual is a union member, and FALSE otherwise.
covered	Union contract coverage flag. TRUE if the individual is covered by a union contract, and FALSE otherwise.
age	The individual's age. This is derived from the CPS variable PEAGE or, if that is unavailable, the CPS variable PRTAGE.
age_group	The individual's age group (16-24, 25-54, or 55 and over). This is derived from age. Levels: 16-24, 25-54, 55 and over
race	The individual's race. This is derived from the CPS variable PTDTRACE. It has levels for some of the more common races, and a level Other for other races. The levels of this variable are less fine-grained than those of PTDTRACE (see the CPS documentation for details). Levels: White, Black, American Indian (Alaskan Native), Asian, Hawaiian/Pacific Islander, Other
hisp	Whether or not the individual is Hispanic. This is derived from the CPS variable PEHSPNON. Levels: Hispanic, Non-Hispanic

<code>educ</code>	<p>The individual's level of education. This is derived from the CPS variable <code>PEEDUCA</code>. The levels of this variable are less fine-grained than those of <code>PEEDUCA</code> (see the CPS documentation for details).</p> <p>Levels: No high school, Completed high school, Some college, Associate degree, Bachelor's degree, Graduate degree</p>
<code>citizen</code>	<p>The individual's US citizenship status. This is derived from the CPS variable <code>PRCITSHP</code>. The levels of this variable are less fine-grained than those of <code>PRCITSHP</code> (see the CPS documentation for details).</p> <p>Levels: US native; Foreign-born, citizen; Foreign-born, non-citizen</p>
<code>state</code>	<p>The US state (including DC) where the individual resides. This is derived from the CPS variable <code>GESTFIPS</code>.</p> <p>Levels: (The two letter abbreviations for each of the 50 states, including DC)</p>
<code>weight</code>	<p>Statistical weight. Used to calculate union membership and union contract coverage proportions.</p>

3 Working with the tool

The web tool provides you with two ways to explore union membership and union contract coverage: by examining trends and by examining state-wise patterns. You can filter the data according to the levels of many of the variables described above, and you can download the data if you desire to conduct more customized analysis.

3.1 Overview of the interface

3.2 Working with trends

If you select the Trends tab, you will be presented with the following interface: This interface allows you to explore trends in union membership and union

contract coverage. There are three sub-tabs: Plots, for viewing the trend plots; Data, for viewing the data used to construct the trend plots; and Options, for setting options related to the trend plots.

To illustrate typical usage, we will work through several examples.

1. As a first example, let us create some basic trend plots showing union membership and union contract coverage trends for black, female nurses in the west coast states (California, Oregon, and Washington).
2. For our second example, we will create trend plots showing the difference in union membership and the difference in union contract coverage among nurses in the age group 25-54 and nurses in the age group 55 and over.
3. In our third and final example we will create trend plots showing the difference in union membership and the difference in union contract coverage among nurses in the tri-state area (New York, New Jersey, and Pennsylvania) who are US native, foreign-born citizens, and foreign-born non-citizens.

3.3 Working with maps

If you select the States tab, you will be presented with the following interface: This interface allows you to create choropleth maps displaying union membership and union contract coverage per state. There are three sub-tabs: Maps, for viewing the choropleth maps; Data, for viewing the data used to construct the choropleth maps; and Options, for setting options related to the choropleth maps.

To illustrate typical usage, we will work through several examples.

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3.4 Downloading the data