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# IPUMS DHS

# USER GUIDE

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# Draft Version 1.3

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## **Welcome to IPUMS-DHS!**

The Demographic and Health Surveys (DHS) are the leading source of comparative data on women's and children's health in low- and middle-income countries. These nationally representative health surveys have been carried out since the 1980s, with logistical support from the U.S. Agency for International Development (USAID). The surveys collect information from women of childbearing age about their own health, their birth histories, the health of their children born in the past 3-5 years, and their household characteristics. In some samples, men of similar ages (or the husbands/partners of women surveyed) are also questioned.

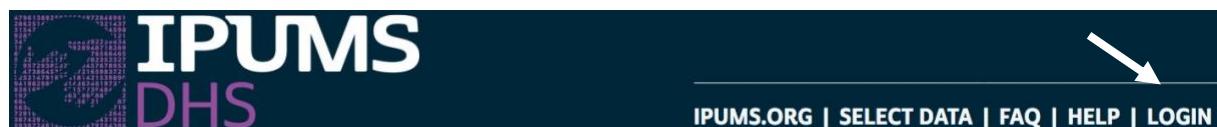
For more information on the DHS data, visit [The DHS Program website](#).

IPUMS-DHS makes using DHS data simpler, allowing researchers to easily explore comprehensive variable information, assess the feasibility of potential research before downloading data, and conduct pooled analyses with fully harmonized variables. IPUMS-DHS is based on the original DHS data files; IPUMS-DHS uses the original DHS data files as source material.

## **Getting Started with IPUMS-DHS**

Most of the following steps can be done in any order, but you must login before you can create and download a dataset.

1. Log in, using the link in the upper left corner of the home page.



Your DHS Program login information (email and password) give you access to IPUMS-DHS data for analysis. If you are not already a DHS data user, you can register at [The DHS Program website](#). There is no charge to register or use DHS.

2. Select unit of analysis

On the IPUMS-DHS home page, click on GET DATA, then click on your preferred unit of analysis (women, children under five, births). This will take you to the Data Selection page.

CHOOSE THE UNIT OF ANALYSIS FOR DATA BROWSING	
WOMEN	EACH RECORD WILL BE A WOMAN OF CHILDBEARING AGE <a href="#">DESCRIPTION</a>
CHILDREN	EACH RECORD WILL BE A CHILD UNDER AGE 5 <a href="#">DESCRIPTION</a>
BIRTHS	EACH RECORD WILL BE A BIRTH REPORTED BY A WOMAN OF CHILDBEARING AGE <a href="#">DESCRIPTION</a>

3. Select samples

### **SELECT SAMPLES**

If you know which country or countries most interest you, you can begin by selecting a subset of samples. On the Data Selection page, click the purple SELECT SAMPLES box. This will bring you to the Sample Selection page. Samples for which you have approval show up in purple text. Check the boxes next to the samples you want to explore and then click SUBMIT SAMPLE SELECTIONS. This will add the samples to your “Data Cart,” and restrict the website to only show you the variables available for these samples.

Some samples may appear in grey text after you login, which means you do not have access to them yet. To download data from the greyed-out samples, you must apply for access through [The DHS Program](#).

#### 4. Explore the variables—Variable Selection Pages

If you are interested in particular topics, regardless of which samples address



them, begin with the SELECT VARIABLES box. Clicking on TOPICS takes you to a drop-down menu with

categories of DHS variables. This is ideal for browsing. You can also search for variable names or keywords by clicking on SEARCH and entering a variable name or keyword.

Either way, you will end up at a Variable Selection page:

AN "X" INDICATES THE VARIABLE IS AVAILABLE IN THAT DATASET.														
DOMESTIC VIOLENCE ATTITUDES VARIABLES [TOP]														
Add to cart	Variable	Variable Label	benin	benin	benin	benin	burkf	burkf	burkf	camer	camer	camer	condr	
			1996	2001	2006	2011	1993	1998	2003	2010	1991	1998	2004	2011
+	DVAARGUE	Attitude to wife beating: Justified if woman argues with him	.	X	X	X	.	.	X	X	.	.	X	X
+	DVABURNFOOD	Attitude to wife beating: Justified if woman burns food	.	X	X	X	.	.	X	X	.	.	X	X
+	DVAGOOUT	Attitude to wife beating: Justified if woman goes out without telling him	.	X	X	X	.	.	X	X	.	.	X	X
+	DVAIFNOSEX	Attitude to wife beating: Justified if woman refused to have sex	.	X	X	X	.	.	X	X	.	.	X	X
+	DVANEKGID	Attitude to wife beating: Justified if woman neglects the children	.	X	X	X	.	.	X	X	.	.	X	X
+	DVACHEAT	Attitude to wife beating: Justified if woman commits infidelity	.	.	.	.	.	.	.	.	.	.	.	.

*CLICK on variable names to get crucial information.*

*Each column represents one survey.*

*Variable labels provide a brief description of each variable.*

*X's indicate the question was asked in that survey.*

## 5. Explore the variables—Variable Documentation pages

Click on a variable name, such as CURRWORK (currently working) to go to its Variable Documentation page. For the example here, I've selected the Benin 2001 and 2011 samples and the Work variables.

WORK VARIABLES [TOP]			
Add to cart	Variable	Variable Label	benin benin 2001 2011
<a href="#">+</a>	<a href="#">CURRWORK</a>	Currently working	X X
<a href="#">+</a>	<a href="#">JOBABSENT</a>	Woman has job from which she was absent in past week	. X
<a href="#">+</a>	<a href="#">WKCURRJOB</a>	Woman's occupation	X X

Clicking on the variable's name will bring up the CODES tab, which shows the possible values and value labels for this variable.

CODES	DESCRIPTION	COMPARABILITY	UNIVERSE	AVAILABILITY	SURVEY TEXT

Click on the case count view to see unweighted frequencies.

- Category availability view  
 Case-count view

Code	Label	benin 2001	benin 2011
00	No	1,079	5,956
10	Yes	5,131	10,643
11	Yes, spontaneous	.	.
12	Yes, prompted	.	.
98	Missing	9	.
99	NIU (not in universe)	.	.

This table shows that the values for CURRWORK are 00 for “No” and 10 for “Yes.” The table also shows that, in some surveys, women were first asked if they were working; if they said “no,” they were prompted with different types of informal work, and asked again. This is not the case for our Benin surveys, though—a dot in a row indicates a response is not relevant for that survey. The table also shows us that all women in our Benin surveys were asked this question because the “NIU” category also has dots.

Take a moment to explore the other tabs at the top of the Variable Documentation page. For example, you might click the COMPARABILITY tab:

CODES	DESCRIPTION	COMPARABILITY	UNIVERSE	AVAILABILITY	SURVEY TEXT
-------	-------------	---------------	----------	--------------	-------------

For CURRWORK, this brings up a very detailed discussion about possible problems comparing this variable across surveys. We don't show the entire discussion here, but you can get a sense of it from these first few lines:

### Comparability

CURRWORK (V714) has significant variation in question wording. The majority of surveys simply ask whether the woman is currently working, with a prefacing statement to distinguish between household labor and labor outside of the home (quoted in the Description). However, some surveys depart from this format and in Phase I often only ask if the woman is working for cash. Users should be especially attentive to the

The COMPARABILITY tab gives you precise information to ensure any comparisons you make across surveys are valid. If there are comparability issues relevant to specific countries, those issues are discussed under the name of the country at the end of the Comparability text.

Next, let's consider the SURVEY TEXT tab:

CODES	DESCRIPTION	COMPARABILITY	UNIVERSE	AVAILABILITY	SURVEY TEXT
-------	-------------	---------------	----------	--------------	-------------

This tab provides the specific survey question wording for our samples, in this case translated from French into English. It shows us that in 2001, women in Benin were asked, "Aside from your own housework, are you currently working?" In 2011, they were asked a slightly different question: "Aside from your own housework, have you done any work in the last seven days?"

As the researcher, you now have the information necessary to make an informed decision about whether you can compare this variable across the two years.

The SURVEY TEXT tab also allows you to jump directly into a survey to see what questions were asked right before or right after the question you are exploring.

The other tabs also include important information. For example, the UNIVERSE tab explains who was asked the survey question, which can differ significantly across DHS samples. We encourage you to explore them all.

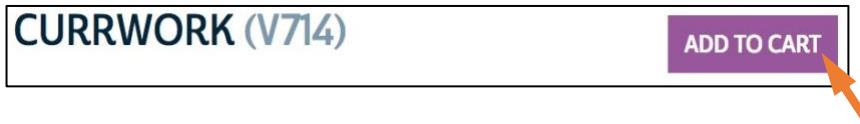
## 6. Create your dataset—add samples and variables to your Data Cart

To construct your own tailored dataset, you need to select samples and variables to add to your Data Cart. Adding material to your Data Cart like shopping online-- except that you are shopping for variables and samples, and everything is free when you check out! [Step 3 explained how to add samples](#). You add variables from either a Variable Selection page or a Variable Documentation page.

To add variables from a Variable Selection page, click the + next to the name of the variable you wish to include in your dataset.

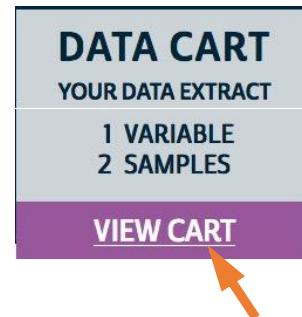
Add to cart	Variable
<input checked="" type="checkbox"/>	CURRWORK
<input type="button" value="+"/>	JOBABSENT

To add variables from a Variable Documentation page, click the ADD TO CART button at the top of the page.



Your Data Cart will keep a running total of the number of samples and variables you have selected.

Researchers can select the variables and samples they are interested in, and the system will create a custom-made data file (extract) containing only this information. The system will quickly pool data from multiple samples into a single data file; in fact, the extract system was primarily designed for this purpose.



## 7. Create your dataset

Once you've selected the samples and variables that interest you, click on VIEW CART to finalize your dataset. (You must be logged in as an approved DHS user to download data.)

You will see a list of variables, beginning with those automatically included in every dataset, such as PERWEIGHT and DVWEIGHT, and followed by the variables you selected. Click on CREATE DATA EXTRACT.

### CREATE DATA EXTRACT

The Extract page looks like this:

SAMPLES:	2	(show)	<a href="#">Change</a>
VARIABLES:	16	(show)	<a href="#">Change</a>
DATA FORMAT:	.dta (STATA), .dat (default)		<a href="#">Change</a>
ESTIMATED SIZE:	2.6 MB		

Describe your extract

**SUBMIT EXTRACT**

*Click here to create your tailored data file.*

*Add a description to keep your files organized.*

This diagram illustrates the 'CREATE DATA EXTRACT' page. It features a purple header bar with the text 'CREATE DATA EXTRACT'. Below this is a table with four rows: 'SAMPLES: 2', 'VARIABLES: 16', 'DATA FORMAT: .dta (STATA), .dat (default)', and 'ESTIMATED SIZE: 2.6 MB'. To the right of the 'DATA FORMAT' row is a yellow oval containing the text: 'Identify the format for your data file here. Options include SPSS, Stata & SAS.' An arrow points from this oval to the 'Change' link in the 'DATA FORMAT' row. Below the table is a text input field labeled 'Describe your extract' with a placeholder '(Type your description here)'. A large yellow oval at the bottom left contains the text 'Click here to create your tailored data file.' An arrow points from this oval to the 'SUBMIT EXTRACT' button. Another large yellow oval at the bottom right contains the text 'Add a description to keep your files organized.' An arrow points from this oval to the text input field.

## 8. Download and unzip your dataset

Date	Formatted Data	Fixed-width Text Files			Codebook	Revise Extract	Resubmit Extract	Description (click to edit)
		Data	SPSS	SAS	STATA	Basic	DDI	
2017-10-14						revise		Benin 2001, 2011, CURRWORK example

After a few minutes, your data file will appear here. Click on it to download it

Want to add a variable or sample? Just return to this page, click here, and select "Change" in the Variables or Samples row.

Right click on the link under "Formatted Data" and select "Save Link As".

The downloaded data file should have the suffix ".gz", such as "idhs\_00001.dta.gz" (for a file in Stata format). This file needs to be decompressed. Mac OS X will decompress the file when you double-click it. Most Windows users will have some type of application that unzips compressed files, but a significant number may not. If your Windows-based computer does not know how to decompress the file, you need to download decompression software. One free option is [7-Zip](#); other programs are also available. We provide [directions for installing 7-Zip](#) in case you need it.

Once you have decompressed the file, click on the file name to open your statistical package and begin to analyze the variables included in your data extract.

You can reload and modify an old extract, dropping or adding variables or samples. Click on "My Data Extracts" on the left sidebar of the IPUMS-DHS home page. This will bring you back to the [headings shown above](#), under #8. Click on "revise" and then "Change."

Congratulations on creating your own unique dataset. We make this as easy as possible so you can get to the hard work of data analysis!