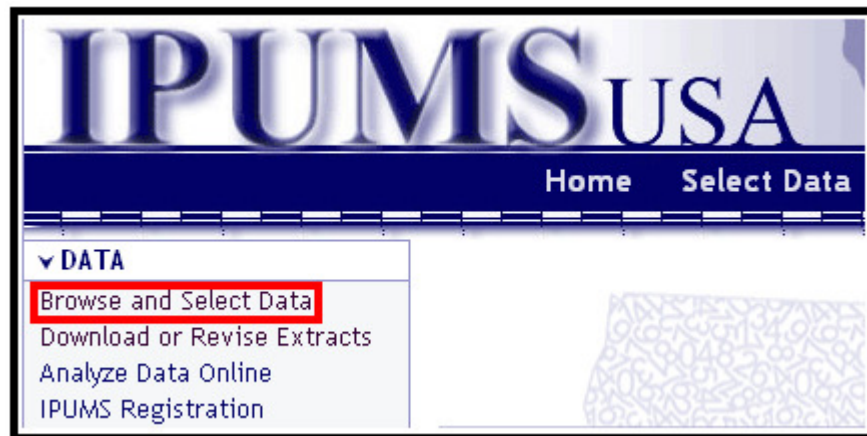


## Instructions for Using the IPUMS Data Extraction System

The IPUMS-USA data extraction system allows researchers to make extracts of the data oriented to their specific research needs and available computing resources. In practice, researchers never require all variables and all cases from a census or survey year. Researchers can design subsamples incorporating the subset of variables and years pertaining to the specific populations of interested to them.

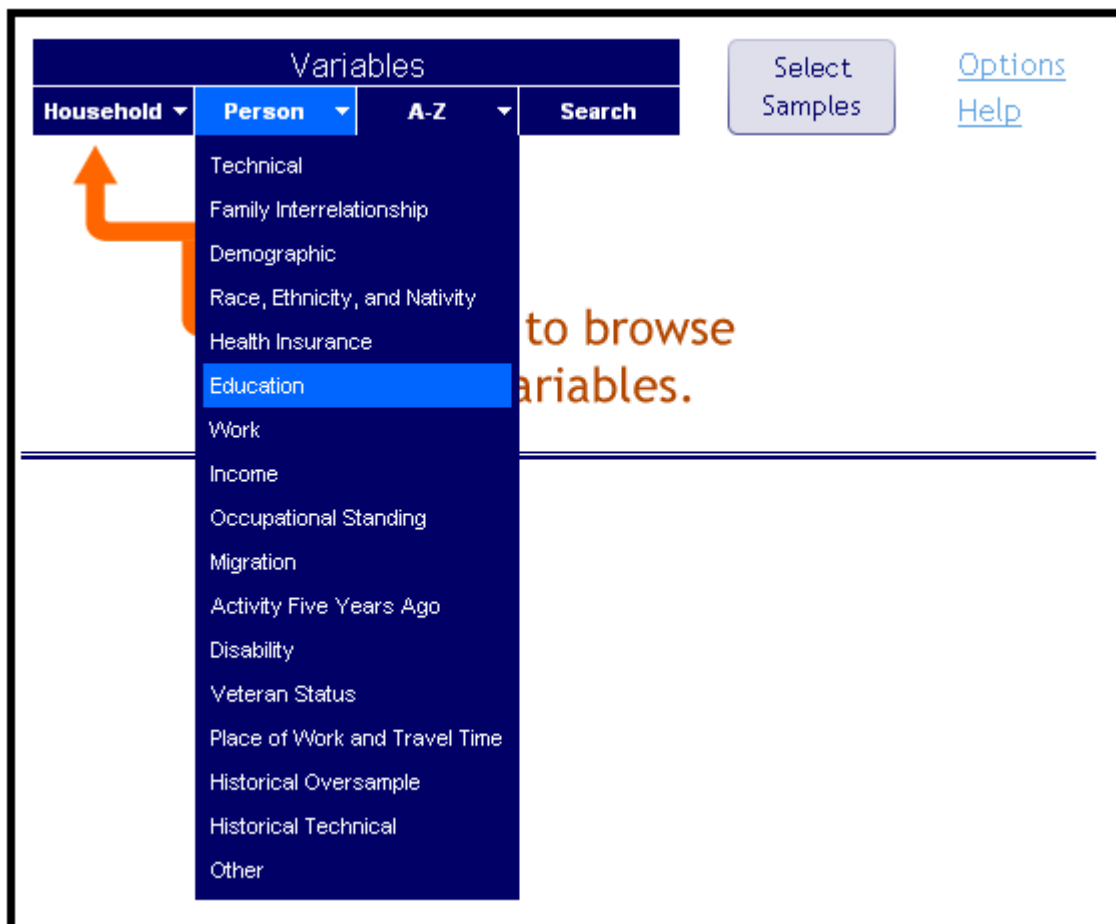
From the home page, click on **'Select Data'**.



The 'Browse and Select Variables' screen that follows allows you to browse and select the variables that you are interested in, select relevant samples, and set extract options.



To view or select household-level variables, hover over **'Household'** and then click on the desired variable category. To view or select person-level variables, hover over **'Person'** and click the category of your choice. Alternatively, you can view and select variables alphabetically by hovering over **'A-Z'** and selecting the relevant letter. You can also use the **search functionality** to locate the variable that you're looking for.



The screen that follows contains all **variables matching the criteria you selected**, and indicates the **samples for which these variables are available**.

Variables				Select Samples	Options			
Household	Person	A-Z	Search	Help				
Education Variables -- PERSON [top]								
Add to cart	Variable	Variable Label	Type	Codes	2009 acs	2008 acs	2007 acs	2006 acs
+	<b>SCHOOL</b>	School attendance	P	<a href="#">codes</a>	X	X	X	X
+	SCHLMNTH	Months in school	P	<a href="#">codes</a>	.	.	.	.
+	HIGRADE	Highest grade of schooling	P	<a href="#">codes</a>	.	.	.	.
+	EDUC	Educational attainment	P	<a href="#">codes</a>	X	X	X	X
+	GRADEATT	Grade level attending	P	<a href="#">codes</a>	X	X	X	X
+	SCHLTYPE	Public or private school	P	<a href="#">codes</a>	X	X	X	X
+	DEGFIELD	Field of degree	P	<a href="#">codes</a>	X	.	.	.
+	DEGFIELD2	Field of degree (2)	P	<a href="#">codes</a>	X	.	.	.

In the example above, the 'X' for 'SCHOOL' under '2009 acs' indicates that the SCHOOL variable is available in the 2009 ACS sample. The '.' For 'HIGRADE' under '2009 acs' indicates that the HIGRADE variable is not available in the 2009 ACS sample.

To view the variable description for a particular variable, simply click on the **variable name**. You can also click on the **"Codes"** link to view the possible codes and labels for the variables, along with the years in which each code was available as a response.

Variables				Select Samples	Options			
Household	Person	A-Z	Search	Help				
Education Variables -- PERSON [top]								
Add to cart	Variable	Variable Label	Type	Codes	2009 acs	2008 acs	2007 acs	2006 acs
+	<b>SCHOOL</b>	School attendance	P	<a href="#">codes</a>	X	X	X	X
+	SCHLMNTH	Months in school	P	<a href="#">codes</a>	.	.	.	.
+	HIGRADE	Highest grade of schooling	P	<a href="#">codes</a>	.	.	.	.
+	EDUC	Educational attainment	P	<a href="#">codes</a>	X	X	X	X

Once you've clicked through to the variable description, you can view the **availability**, **universe**, **codes**, or **enumeration text** by simply clicking the relevant link at the top of the variable description page. If you're satisfied that the variable suits your needs, click **'Add to Cart'** in the upper-right-hand corner. You can click "Back" in your browser window to return to the variable browse and select screen.

The screenshot shows the variable description page for 'SCHOOL'. At the top, the variable name 'SCHOOL' is underlined, followed by the label 'Label: School attendance'. In the upper right corner, there are two buttons: 'Add to cart' (highlighted with a red box) and 'Select samples'. Below the label, there are four links: 'Availability [show]' (highlighted with a red box), 'Universe [show]' (highlighted with a yellow box), 'View codes and frequencies' (highlighted with a green box), and 'View questionnaire text' (highlighted with a purple box).

If you know which variables you want to use without needing to read the description, you can always click the **"+"** button next to the desired variable. Once a variable is in your data cart, this button will instead display as a **checked box**. Clicking the checked box will remove the variable from your cart.

The screenshot shows the variable selection interface. At the top, there are navigation options: 'Household', 'Person', 'A-Z', and 'Search'. There are also buttons for 'Select Samples', 'Options', and 'Help'. Below this is a section titled 'Education Variables -- PERSON [top]'. The main part of the interface is a table with the following columns: 'Add to cart', 'Variable', 'Variable Label', 'Type', 'Codes', and four columns for the years 2009, 2008, 2007, and 2006, each with a sub-column 'acs'. The 'Add to cart' column contains icons: a checked box for 'SCHOOL', and plus signs for 'SCHLMNTH', 'HIGRADE', and 'EDUC'. The 'SCHOOL' row is highlighted.

Add to cart	Variable	Variable Label	Type	Codes	2009	2008	2007	2006
					acs	acs	acs	acs
<input checked="" type="checkbox"/>	<a href="#">SCHOOL</a>	School attendance	P	<a href="#">codes</a>	X	X	X	X
<input type="checkbox"/>	<a href="#">SCHLMNTH</a>	Months in school	P	<a href="#">codes</a>	.	.	.	.
<input type="checkbox"/>	<a href="#">HIGRADE</a>	Highest grade of schooling	P	<a href="#">codes</a>	.	.	.	.
<input type="checkbox"/>	<a href="#">EDUC</a>	Educational attainment	P	<a href="#">codes</a>	X	X	X	X

Clicking the “Select Samples” button will allow you to pick the samples for which you’d like to obtain data.

The screenshot shows the 'Variables' page with a navigation bar containing 'Household', 'Person', 'A-Z', and 'Search' dropdown menus. A 'Select Samples' button is highlighted with a red box. Below the navigation bar, there is a section for 'Education Variables -- PERSON' with a '[top]' link. A table lists variables with columns for 'Add to cart', 'Variable', 'Variable Label', 'Type', 'Codes', and years 2009, 2008, 2007, and 2006. The 'SCHOOL' variable is checked and has 'X' marks in the 2009, 2008, and 2007 columns. The 'SCHLWNTHT' variable is not checked and has '.' marks in the 2009, 2008, 2007, and 2006 columns.

Add to cart	Variable	Variable Label	Type	Codes	2009	2008	2007	2006
					acs	acs	acs	acs
<input checked="" type="checkbox"/>	<a href="#">SCHOOL</a>	School attendance	P	<a href="#">codes</a>	X	X	X	X
<input type="checkbox"/>	<a href="#">SCHLWNTHT</a>	Months in school	P	<a href="#">codes</a>	.	.	.	.

After checking the boxes next to the **samples you desire**, click **'Submit sample selections'** to save your choices.

The screenshot shows the 'Select Samples' page with a blue header. Below the header, there is a paragraph of text: 'Variable documentation on the web site can be filtered to display only material corresponding to chosen datasets ([more information](#) on this feature)'. A 'Submit sample selections' button is highlighted with a yellow box. Below this, there is a checkbox labeled 'Default U.S. sample from each year'. A table lists years from 2009 to 2004 with checkboxes for 'ACS' and 'ACS 3yr'. The 'ACS' checkboxes for 2009, 2008, and 2007 are checked and highlighted with a red box.

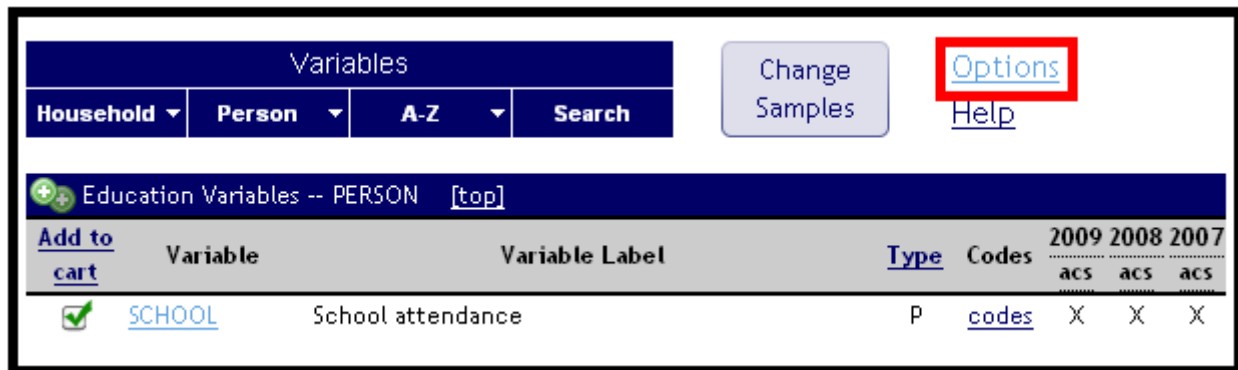
Year	ACS	ACS 3yr
2009	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2007	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2006	<input type="checkbox"/>	
2005	<input type="checkbox"/>	
2004	<input type="checkbox"/>	

You can revise the selected samples at any time by clicking the **'Change Samples'** button.

The screenshot shows the 'Variables' page with a navigation bar containing 'Household', 'Person', 'A-Z', and 'Search' dropdown menus. A 'Change Samples' button is highlighted with a red box. Below the navigation bar, there is a section for 'Education Variables -- PERSON' with a '[top]' link. A table lists variables with columns for 'Add to cart', 'Variable', 'Variable Label', 'Type', 'Codes', and years 2009, 2008, and 2007. The 'SCHOOL' variable is checked and has 'X' marks in the 2009, 2008, and 2007 columns.

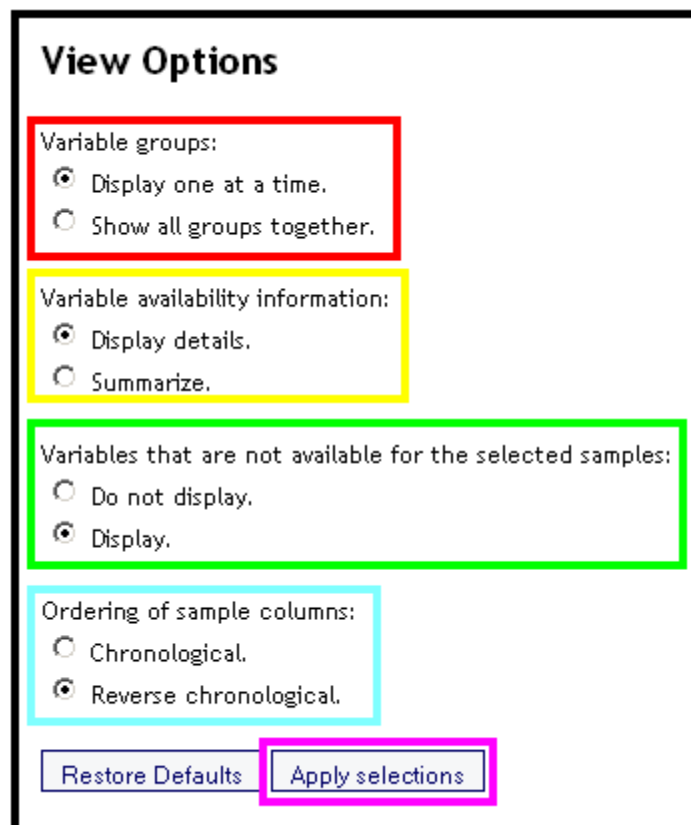
Add to cart	Variable	Variable Label	Type	Codes	2009	2008	2007
					acs	acs	acs
<input checked="" type="checkbox"/>	<a href="#">SCHOOL</a>	School attendance	P	<a href="#">codes</a>	X	X	X

You can edit display options by clicking the “Options” link in the upper-right corner.



The screenshot shows a web interface for managing variables. At the top, there is a dark blue header with the word "Variables" in white. Below the header are several navigation elements: a "Household" dropdown menu, a "Person" dropdown menu, an "A-Z" dropdown menu, and a "Search" button. To the right of these are two buttons: "Change Samples" and "Options" (which is highlighted with a red border). Below the header is a dark blue bar with a plus icon, the text "Education Variables -- PERSON", and a "[top]" link. Below this is a table with columns: "Add to cart", "Variable", "Variable Label", "Type", "Codes", and three columns for the years "2009", "2008", and "2007". The table contains one row for the variable "SCHOOL" with the label "School attendance", type "P", and codes "codes" for each year, with "X" marks in the 2009 and 2008 columns.

The View Options page allows you to tell the extract system how you want the variables to be displayed. You can opt to have them **display one group at a time or all together**. You can elect to be shown **detailed or summary availability information**. The system allows you to select whether you want to **show variables that are not available for the selected samples or not**. Finally, you can **choose chronological or the reverse chronological ordering**. Click **Apply Selections** to save your choices.



The "View Options" page contains several sections of radio button options:

- Variable groups:**  Display one at a time.  Show all groups together.
- Variable availability information:**  Display details.  Summarize.
- Variables that are not available for the selected samples:**  Do not display.  Display.
- Ordering of sample columns:**  Chronological.  Reverse chronological.

At the bottom of the page are two buttons: "Restore Defaults" and "Apply selections" (which is highlighted with a pink border).

Once you've selected the samples and variables of your choice, click **'View Cart'**.

**IPUIMS USA**

Home Select Data FAQ Contact Us Login

Variables: Household Person A-Z Search

Change Samples Options Help

Education Variables -- PERSON [top]

Add to cart	Variable	Variable Label	Type	Codes	2009	2008	2007
					acs	acs	acs
<input checked="" type="checkbox"/>	SCHOOL	School attendance	P	codes	X	X	X

**Data Cart**  
Your data extract  
1 variable  
3 samples  
**VIEW CART**

The page that follows lists the **variables pre-selected by the extract system** as well as any **variables you selected**. You can remove variables from your extract in this step by clicking the **relevant checkbox in the 'in cart' column**. If the samples and variables are as you wish, click **'Check out: Create Data Extract'**.

**Data Cart** 4 variables [Add more variables](#)  
3 samples [Add more samples](#) **CHECK OUT: Create Data Extract**

Clear Data Cart

In cart	Variable	Variable Label	Type	Codes	2009	2008	2007
					acs	acs	acs
<input checked="" type="checkbox"/>	YEAR	Census year <b>[preselected]</b>	H	codes	X	X	X
<input checked="" type="checkbox"/>	DATANUM	Data set number <b>[preselected]</b>	H	codes	X	X	X
<input checked="" type="checkbox"/>	SERIAL	Household serial number <b>[preselected]</b>	H	codes	X	X	X
<input checked="" type="checkbox"/>	HHWT	Household weight <b>[preselected]</b>	H	codes	X	X	X
<input checked="" type="checkbox"/>	GQ	Group quarters status <b>[preselected]</b>	H	codes	X	X	X
<input checked="" type="checkbox"/>	PERWT	Person weight <b>[preselected]</b>	P	codes	X	X	X
<input checked="" type="checkbox"/>	AGE	Age	P	codes	X	X	X
<input checked="" type="checkbox"/>	SEX	Sex	P	codes	X	X	X
<input checked="" type="checkbox"/>	MARST	Marital status	P	codes	X	X	X
<input checked="" type="checkbox"/>	SCHOOL	School attendance	P	codes	X	X	X

At this point, you'll be asked to log in or register. Registered users can enter their log in details and click "Submit". If you're not yet registered, you'll be taken back to your data cart to continue the process once you've submitted the registration form.

## Login

The [Minnesota Population Center](#) uses a common user management system for several data projects: IPUMS-USA, IPUMS-International, CPS, IHIS, and NAPP. If you are already a registered user for one of these projects, you may login or apply for access using the same email address. If you are either a new user or a registered user who does not have a password, simply enter your email address on this form.

Email:

Password:

The 'set extract options' screen that follows allows you to generate **either a rectangular or hierarchical file**. By default, IPUMS data are rectangularized – that is, the extract system puts the household information on the person records and drops the separate household record. If you'd prefer a hierarchical file you can choose that here. Then, click **'Continue to next step'**.

## Set extract options ([help](#))

### Extract file type

- Rectangular (**recommended**)
- Hierarchical
- Household records only



The 'set variable options' page lets you **select cases**, **attach characteristics**, and **include flags**.

### Set variable options ([help](#))

Set Variable options				Variable	Variable Label	Type
<u>Include in extract</u>	<u>Select Cases</u>	<u>Attach Characteristics</u>	<u>Include Flags</u>			
<input checked="" type="checkbox"/>			<input type="checkbox"/>	<a href="#">YEAR</a>	Census year	H
<input checked="" type="checkbox"/>			<input type="checkbox"/>	<a href="#">DATANUM</a>	Data set number	H
<input checked="" type="checkbox"/>			<input type="checkbox"/>	<a href="#">SERIAL</a>	Household serial number	H
<input checked="" type="checkbox"/>			<input type="checkbox"/>	<a href="#">HHWT</a>	Household weight	H
<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<a href="#">GQ</a>	Group quarters status	H
<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">PERWT</a>	Person weight	P
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">RELATE</a>	Relationship to household head ( <a href="#">general</a> )	P
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">RELATED</a>	Relationship to household head ( <a href="#">detailed</a> )	P
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">AGE</a>	Age	P
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">SEX</a>	Sex	P
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">MARST</a>	Marital status	P
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<a href="#">SCHOOL</a>	School attendance	P

[Continue to next step](#)

You can include data quality flags for certain variables by checking the boxes next to the variable name. Checking the box at the top of the **'Include flags' column** will select all data quality flags available for the variables and samples you have chosen.

After you've checked the desired boxes, click **'Continue to next step'**.

The 'select cases' feature allows users to limit their dataset to contain only records with specific values for selected variables, such as **as persons age 65 and older**. Multiple variables can be used in combination during case selection. Selections for multiple variables are additive, each being implicitly connected by a logical "AND" for processing purposes. When you've made your selections, click **'Continue to next step'**.

**Set variable options – select cases ([help](#))**

**Case Selection**

**Selection individuals or households**

- Include only those persons meeting case selection criteria
- Include all persons in the household of person meeting case selection criteria

**AGE Age**

064 64
065 65
066 66
067 67
068 68
069 69
070 70
071 71
072 72
073 73

**Continue to next step**

The data extract system can attach a characteristic of a person's mother, father, or spouse as a new variable on the person's record. It can also attach the characteristics of the household head. For example, using the variable 'Age', it can make a new variable for 'Age of Spouse'. Again, click 'Continue to next step'.

**Set variable options — attach characteristics ([help](#))**

Check the boxes below to make one or more new variables describing the characteristics of other persons in the household. For example, checking the "Spouse" box next to the AGE variable would produce a variable called AGE\_SP, which would specify the age of each respondent's spouse. [More information](#)

Variable	Head	Father	Mother	Spouse
<a href="#">AGE</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

[Continue to next step](#)

Finally, the 'Review extract request' screen summarizes your request...

## Review extract request ([help](#))

### Extract File Type and Estimated Size

File Type: Rectangular  
Estimated size: 387.4 MB

### Samples

Sample	Density	Custom Density	Note
<a href="#">2007 ACS</a>	1.0%	--	2007 ACS sample
<a href="#">2008 ACS</a>	1.0%	--	2008 ACS sample
<a href="#">2009 ACS</a>	1.0%	--	2009 ACS sample

### Variables and Case Selection

Type	Variable	Label	Case Selection
H	<a href="#">YEAR</a>	Census year	--
H	<a href="#">DATANUM</a>	Data set number	--
H	<a href="#">SERIAL</a>	Household serial number	--
H	<a href="#">HHWT</a>	Household weight	--
H	<a href="#">GQ</a>	Group quarters status	--
P	<a href="#">PERWT</a>	Person weight	--
P	<a href="#">RELATE</a> (general)	Relationship to household head [general version]	--
P	<a href="#">RELATED</a> (detailed)	Relationship to household head [detailed version]	--
P	<a href="#">AGE</a>	Age	--
P	<a href="#">SEX</a>	Sex	--
P	<a href="#">MARST</a>	Marital status	--
P	<a href="#">SCHOOL</a>	School attendance	--
P	<a href="#">AGE_SP</a>	Age [of spouse]	--

You can also make desired changes at this point using the appropriate buttons on the screen.

### Use these buttons to make changes to your extract.

[Samples and variables](#)

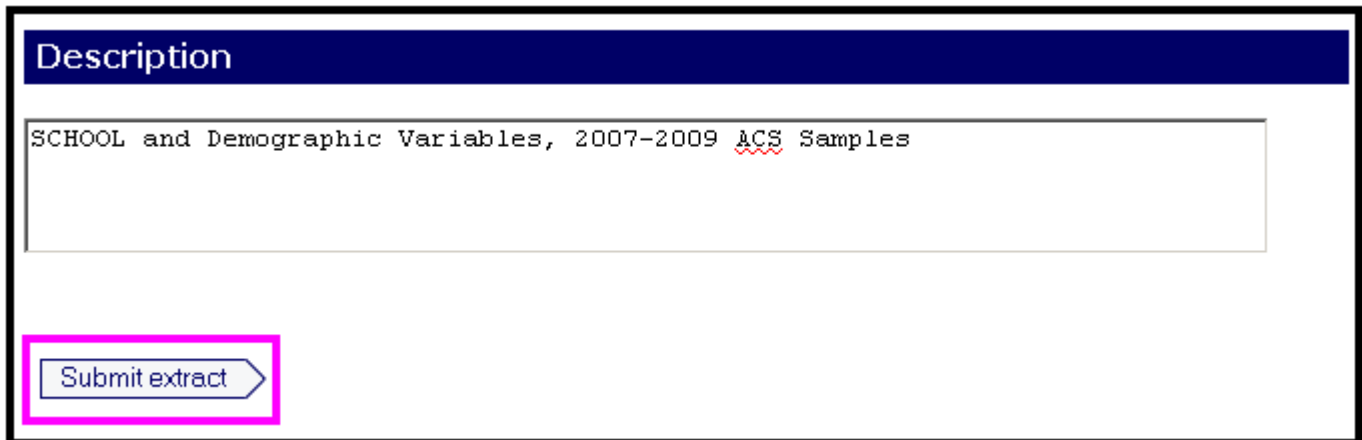
[Extract options](#)

[Variable options](#)

[Attached characteristics](#)

[Sample sizes](#)

If you're satisfied with your request, enter a description of your extract for your own reference and click **Submit extract**.



**Description**

SCHOOL and Demographic Variables, 2007-2009 ACS Samples

Submit extract

Extracts typically take only a few minutes, but can take a few hours or even more than a day if they are very large. You'll receive an email once your extract is complete, at which time you'll be able to download the data using the link provided in the email or by clicking "Download Your Extract" in the upper-left corner.