

## Frequencies / Cross-tabulation Program

To generate frequencies or cross tabulations, enter the variable 'name' into the fields pictured below.

SDA Frequencies/Crosstabulation Program  
Help: [General](#) / [Recoding Variables](#)

REQUIRED Variable names to specify  
**Row:**

OPTIONAL Variable names to specify  
**Column:**   
**Control:**   
**Selection Filter(s):**  Example: age(18-50)  
**Weight:**

TABLE OPTIONS	CHART OPTIONS
<b>Percentaging:</b> <input type="checkbox"/> Column <input checked="" type="checkbox"/> Row <input type="checkbox"/> Total with <input type="text" value="1"/> decimal(s) <input type="checkbox"/> <b>Statistics</b> with <input type="text" value="2"/> decimal(s) <input type="checkbox"/> <b>Question text</b> <input type="checkbox"/> <b>Suppress table</b> <input checked="" type="checkbox"/> <b>Color coding</b> <input type="checkbox"/> <b>Show Z-statistic</b>	<b>Type of chart:</b> Stacked Bar Chart <b>Bar chart options:</b> Orientation: <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal Visual Effects: <input checked="" type="radio"/> 2-D <input type="radio"/> 3-D <b>Show Percents:</b> <input type="checkbox"/> Yes <b>Palette:</b> <input checked="" type="radio"/> Color <input type="radio"/> Grayscale <b>Size</b> - width: <input type="text" value="600"/> height: <input type="text" value="400"/>

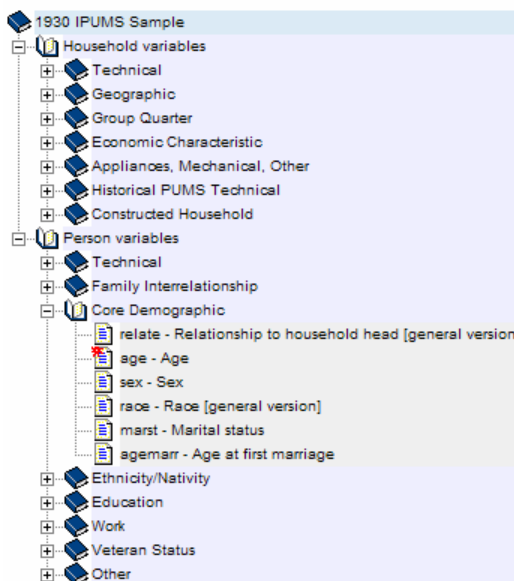
The variable dictionary is generated based on the sample you selected. Variables available in that sample are organized into thematic groups by record type (household, person). To select a variable to analyze, simply click on the variable within the dictionary.

**Variable Selection:** [Help](#)

**Selected:**

**Copy to:**

**Mode:**  Append  Replace



The variable selection tree shows a hierarchical structure of variables. The root is '1930 IPUMS Sample', which branches into 'Household variables' and 'Person variables'. Under 'Household variables', there are sub-groups: Technical, Geographic, Group Quarter, Economic Characteristic, Appliances, Mechanical, Other, Historical PUMS Technical, and Constructed Household. Under 'Person variables', there are sub-groups: Technical, Family Interrelationship, and Core Demographic. The 'Core Demographic' group is expanded, showing variables: relate - Relationship to household head [general version], age - Age, sex - Sex, race - Race [general version], marst - Marital status, and agemarr - Age at first marriage. Other variables listed include Ethnicity/Nativity, Education, Work, Veteran Status, and Other.

Once selected, the variable will be generated above, from here you'll select the field you'd like the variable to be entered in.

## An Example: Labor Force Status by Race

To two major fields in the frequencies/cross-tabulation program are “Row” and “Column”. With variables entered into these fields, the system will produce a basic cross tabulation. The input is pictured below. Along with the variable fields is table options and chart options for customizing your output.

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*REQUIRED Variable names to specify*  
Row:

*OPTIONAL Variable names to specify*  
Column:   
Control:   
Selection Filter(s):  Example: age(18-50)  
Weight:

TABLE OPTIONS	CHART OPTIONS
<u>Percentaging:</u> <input checked="" type="checkbox"/> Column <input type="checkbox"/> Row <input type="checkbox"/> Total with <input type="text" value="1"/> decimal(s) <input type="checkbox"/> <u>Statistics</u> with <input type="text" value="2"/> decimal(s) <input type="checkbox"/> <u>Question text</u> <input type="checkbox"/> <u>Suppress table</u> <input checked="" type="checkbox"/> <u>Color coding</u> <input type="checkbox"/> <u>Show Z-statistic</u>	<u>Type of chart:</u> <input type="text" value="Stacked Bar Chart"/> <input type="button" value="v"/> <u>Bar chart options:</u> Orientation: <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal Visual Effects: <input checked="" type="radio"/> 2-D <input type="radio"/> 3-D <u>Show Percents:</u> <input type="checkbox"/> Yes <u>Palette:</u> <input checked="" type="radio"/> Color <input type="radio"/> Grayscale <u>Size</u> - width: <input type="text" value="600"/> height: <input type="text" value="400"/>

The corresponding output is made up of a basic summary of the each variable, the frequency distribution, and bar chart as pictured below.

### Labor Force Status by Race

Frequency Distribution											
Cells contain: -Column percent -N of cases		race									ROW TOTAL
		1 White	2 Black/Negro	3 American Indian or Alaska Native	4 Chinese	5 Japanese	6 Other Asian or Pacific Islander	7 Other race, nec	8 Two major races	9 Three or more major races	
<b>labforce</b>	0: N/A	20.5 44,211,258	27.5 9,641,390	25.8 605,935	18.6 531,519	10.9 91,356	22.0 2,017,296	30.3 5,254,636	45.2 2,341,408	45.6 175,711	22.5 64,870,509
	1: No, not in the labor force	27.3 58,672,625	24.8 8,683,536	27.3 639,227	28.9 827,391	39.5 331,481	26.5 2,436,497	21.1 3,661,550	17.9 928,280	17.9 69,045	26.4 76,249,632
	2: Yes, in the labor force	52.2 112,376,969	47.7 16,700,945	46.9 1,098,894	52.5 1,501,079	49.6 415,891	51.5 4,726,097	48.5 8,407,444	36.9 1,910,473	36.5 140,886	51.1 147,278,678
	<b>COL TOTAL</b>	<b>100.0</b> 215,260,852	<b>100.0</b> 35,025,871	<b>100.0</b> 2,344,056	<b>100.0</b> 2,859,989	<b>100.0</b> 838,728	<b>100.0</b> 9,179,890	<b>100.0</b> 17,323,630	<b>100.0</b> 5,180,161	<b>100.0</b> 385,642	<b>100.0</b> 288,398,819

Two other important fields are the “Control” field and “Selection Filter(s)” field. With the use of these fields, users can hone in on the sub-populations of interest to them.

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REQUIRED Variable names to specify  
 Row:   
 OPTIONAL Variable names to specify  
 Column:   
 Control:   
 Selection Filter(s):  Example: age(18-50)  
 Weight:

TABLE OPTIONS  
 Percentaging:  Column  Row  Total  
 with  decimal(s)  
 Statistics with  decimal(s)  
 Question text  Suppress table  
 Color coding  Show Z-statistics

CHART OPTIONS  
 Type of chart:   
 Bar chart options:  
 Orientation:  Vertical  Horizontal  
 Visual Effects:  2-D  3-D  
 Show Percents:  Yes  
 Palette:  Color  Grayscale  
 Size - width:  height:

**Control:**   
**Selection Filter(s):**

**Control-** separate outputs will be produced for each category of the control category.

**Selection Filter(s)-** use any of the variables to develop a filter criteria similar to case selection feature in the IPUMS Extract System.

### Labor Force Status by Race for Males and Females aged 24-60

Cells contain: -Column percent -N of cases		race									ROW TOTAL
		1 White	2 Black/Negro	3 American Indian or Alaska Native	4 Chinese	5 Japanese	6 Other Asian or Pacific Islander	7 Other race, nec	8 Two major races	9 Three or more major races	
labforce	0: N/A	20.5 44,211,258	27.5 58,641,300	25.8 605,035	18.6 531,510	10.9 91,356	22.0 2,017,296	30.3 6,254,636	45.2 2,341,408	45.6 175,711	22.5 64,870,509
	1: No, not in the labor force	27.3 58,672,625	24.8 8,683,535	27.3 639,227	28.9 827,391	39.5 331,491	26.5 2,436,497	21.1 3,561,550	17.9 928,290	17.9 59,045	26.4 76,249,622
	2: Yes, in the labor force	52.2 112,376,969	47.7 16,709,945	46.9 1,098,894	52.5 1,501,979	49.6 415,891	51.5 4,720,097	48.5 8,127,444	36.9 1,810,473	36.5 140,880	51.1 147,278,679
	COL TOTAL	100.0 215,280,832	100.0 35,029,871	100.0 2,344,056	100.0 2,859,969	100.0 836,728	100.0 9,179,890	100.0 17,323,630	100.0 4,160,161	100.0 385,642	100.0 288,398,619

Cells contain: -Column percent -N of cases		race		
		1 White	2 Black/Negro	ROW TOTAL
labforce	1: No, not in the labor force	11.7 6,462,524	19.0 1,463,293	12.6 7,925,817
	2: Yes, in the labor force	88.3 48,905,931	81.0 6,241,189	87.4 55,147,120
	COL TOTAL	100.0 55,368,455	100.0 7,704,482	100.0 63,072,937

Cells contain: -Column percent -N of cases		race		
		1 White	2 Black/Negro	ROW TOTAL
labforce	1: No, not in the labor force	26.7 14,907,693	24.3 2,313,465	26.3 17,221,158
	2: Yes, in the labor force	73.3 41,001,450	75.7 7,187,956	73.7 48,189,406
	COL TOTAL	100.0 55,909,143	100.0 9,501,421	100.0 65,410,564