

ACS Public Use Microdata Samples

DataFerrett

Hawaii

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Outline

- Summary Data vs. Microdata
- Fundamentals of PUMS Data
- Geography and the PUMS
- Accessing PUMS Data
- Issues to be Aware of
- Documentation and Guidance

Summary Data Versus Microdata

Summary Data

- Premade or published tables
- Easy to get, even for small areas
- Limitations: fixed content

Microdata

- Dataset of individual responses to questionnaire
- Enables custom tables and analyses
- Limitations: edits to protect privacy, can't study small areas

Summary Data

	United States	
	Estimate	Margin of Error
Total:	309,349,689	*****
Afghan	76,654	+/-10,187
Albanian	179,426	+/-14,789
Alsatian	5,701	+/-1,109
American	19,975,875	+/-105,096
Arab:	1,399,809	+/-33,589
Egyptian	176,817	+/-13,703
Iraqi	95,564	+/-12,376
Jordanian	55,588	+/-8,438
Lebanese	368,717	+/-13,131
Moroccan	70,183	+/-8,115
Palestinian	82,744	+/-10,786
Syrian	103,489	+/-9,006
Arab	251,602	+/-16,719
Other Arab	195,105	+/-14,678
Armenian	409,282	+/-17,032
Assyrian/Chaldean/Syriac	94,075	+/-8,587
Australian	68,598	+/-5,399
Austrian	385,183	+/-12,057
Basque	39,205	+/-4,436
Belgian	223,267	+/-9,490

Source: 2010 ACS 1-year Estimates, Table B04001. FIRST ANCESTRY REPORTED

Microdata

```

RT SERIALNO ST PUMA RELP AGEP SEX RAC1P MAR PINCP POBPF
P,168,2,300,0,56,2,2,5,81000,1,56,5,0,1,,22,0,1,0,0,81
P,168,2,300,2,30,1,2,5,8000,2,209,5,0,1,,20,0,2,0,0,80
P,168,2,300,2,18,2,2,5,500,2,88,5,0,2,14,14,0,3,0,0,50
P,433,2,200,16,39,1,9,1,800,2,79,5,0,1,,17,800,1,0,0,0
P,1890,2,400,0,31,2,1,1,29700,2,46,5,0,1,,19,0,1,0,0,2
P,1890,2,400,12,23,1,1,5,5000,41,27,5,0,1,,17,0,2,0,0
P,2029,2,101,0,67,2,4,2,26900,2,268,5,6000,1,,19,0,1,0
P,2029,2,101,2,41,2,9,5,20200,2,556,5,0,1,,16,0,2,0,0
P,2029,2,101,7,13,1,9,5,,2,342,,3,10,10,,3,,,,,2
P,2029,2,101,7,8,2,9,5,,2,220,,2,5,5,,4,,,,,2,98
P,2693,2,200,0,66,2,9,2,30400,6,35,5,0,1,,16,0,1,0,158
P,3361,2,200,0,57,1,1,1,180000,38,59,5,178000,1,,21,0
P,3361,2,200,1,58,2,1,1,110000,38,67,5,30000,1,,22,800
P,4005,2,200,0,27,2,1,5,42300,4,61,5,0,1,,21,0,1,0,0,4
P,4005,2,200,13,29,1,1,5,0,4,55,5,0,1,,19,0,2,0,0,0,3
P,4076,2,101,0,45,1,1,3,75800,53,457,3,0,1,,19,0,1,0,0
    
```

Source: 2010 ACS 1-year PUMS file

Microdata in SAS

	Record type	Housing unit/GQ person serial number	State of current residence	Puma Code	PUMS Relationship to Reference Person	PUMS Age	Sex	Marital status	PUMS Persons income (signed)
1	P	168	02	00300	00	56	2	5	000081000
2	P	168	02	00300	02	30	1	5	000008000
3	P	168	02	00300	02	18	2	5	000000500
4	P	433	02	00200	16	39	1	1	000000800
5	P	1890	02	00400	00	31	2	1	000029700
6	P	1890	02	00400	12	23	1	5	000005000
7	P	2029	02	00101	00	67	2	2	000026900
8	P	2029	02	00101	02	41	2	5	000020200
9	P	2029	02	00101	07	13	1	5	.
10	P	2029	02	00101	07	08	2	5	.
11	P	2693	02	00200	00	66	2	2	000030400
12	P	3361	02	00200	00	57	1	1	000180000
13	P	3361	02	00200	01	58	2	1	000110000
14	P	4005	02	00200	00	27	2	5	000042300
15	P	4005	02	00200	13	29	1	5	000000000
16	P	4076	02	00101	00	45	1	3	000075800

Source: 2010 ACS 1-year PUMS file.

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- Summary data vs. Microdata
- **Fundamentals of PUMS Data**
- Geography and the PUMS
- Accessing PUMS Data
- Issues to be Aware of
- Documentation and Guidance

What are PUMS data?

Public Use anonymized, downloadable

Microdata records of individual people

Sample a representative sample of the
 population

PUMS Overview

- PUMS sample is a subsample of ACS interviews, one percent of all US households
- PUMS is a “weighted” sample
 - Weighting variables must be used in analysis
- A set of two files - housing units and persons
- ACS produces 1-, 3-, and 5-year PUMS files
- Available as SAS files, CSV files, via DataFerrett and redistributors such as IPUMS

Why Use PUMS?

- Data needed for a tabulation or a specific universe not supported by standard ACS tables (e.g., population groups by single year of age)
- Statistical analysis required to understand relationships between economic, demographic or housing variables (e.g., correlation analysis)
- Can create new measures using multiple variables or other people in household (spouse’s occupation, same-sex couples, number of kids)

ACS PUMS Availability

- Produced every year since 2000
- Person-level files includes about 250 variables
- Housing unit files include about 200 variables
- Includes people in housing units and group quarters
- Includes many useful constructed variables (e.g., poverty status, subfamily identification, etc.)
- Includes collapsed codes for some variables (e.g., race, Hispanic origin, ancestry, place of birth, industry, occupation, etc.)

	Person records in ACS PUMS (millions)	Person records in ACS complete data (millions)	Population represented (millions)
2001	1.2	1.2	285
2002	1.2	1.2	287
2003	1.2	1.2	290
2004	1.2	1.2	293
2005	2.9	4.5	296
2006	3.0	4.5	298
2007	3.0	4.5	301
2008	3.0	4.5	304
2009	3.0	4.5	307
2010	3.1	4.5	309
2011	3.1	5.0	312

Types of PUMS Files Released

- We release 3 new PUMS files every year
 - 1 year PUMS (example: 2011 1-year PUMS)
 - October
 - 3-year PUMS (example: 2009-2011 3-year PUMS)
 - December
 - 5-year PUMS (example: 2007-2011 5-year PUMS)
 - January
- Most documentation released one week prior to data

Modifications to Multiyear PUMS

- Multiyear PUMS have the same cases and geography as their component 1-year files
- How are multiyear PUMS different from single year?
 - Weights are produced using latest population estimate “vintages”
 - Coding schemes and dollar amounts are standardized
- Why use the multiyear PUMS files?
 - For studying small groups, where more cases are needed
 - When analysis is also making use of multiyear summary data

Outline

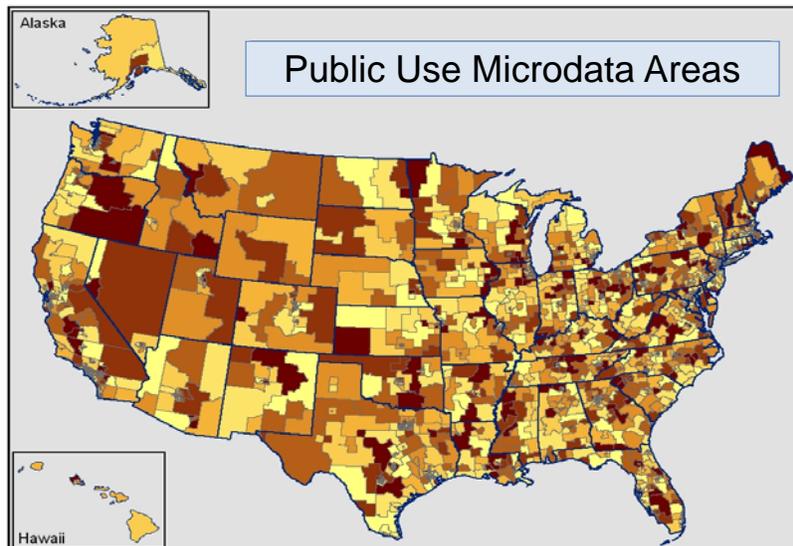
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Limited Geographic Detail

- Geographic identifiers are region, division, state, PUMA
- PUMAs can be used to identify most cities of 100,000+ and many metropolitan areas, but not all
 - Combinations of adjacent counties and census tracts within states
 - Also, divisions of geo areas (counties/cities)
- PUMS is not designed for statistical analysis of small geographic areas

Public Use Microdata Area (PUMA)

- Defined after each census by the states in coordination with the Census Bureau's Geography Division
 - Redefined PUMAs for 2012 PUMS files
 - Forthcoming multiyear files to have dual PUMA vintages
- Large enough to meet disclosure avoidance requirements
- An area of size 100,000 population or more
 - To determine population, housing, or land ratio visit the [Missouri State Data Center](#) site
- PUMAs are identified by a five-digit number, unique within each state



PUMA Maps

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2010 Census Public Use Microdata Area (PUMA) Reference Maps - Hawaii

The total number of map sheets is listed next to each entity name. In instances where there is only one map sheet for a given entity, the map link will open the PDF map file directly through your web browser. In instances where an entity consists of more than one map sheet, the link opens to a directory that contains all of the maps sheets for that entity.

Code	Name	Total Map Sheets
15 00100	Maui, Kauai, & Kauai Counties PUMA	3
15 00200	Hawaii County PUMA	1
15 00301	Honolulu County--Rural Oahu PUMA	11
15 00302	Honolulu County--Kooaupo PUMA	1
15 00303	Honolulu County--East Honolulu to Kapahulu PUMA	1
15 00304	Honolulu County--Tantalus to Waikiki PUMA	1
15 00305	Honolulu County--Nuuanu to Kalihi PUMA	1
15 00306	Honolulu County--Moanalua to Pearl City PUMA	1
15 00307	Honolulu County--Central Oahu PUMA	1
15 00308	Honolulu County--Ewa PUMA	1

http://www.census.gov/geo/maps-data/maps/2010puma/st15_hi.html

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2010 Census – PUMA Reference Map Hawaii County

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American FactFinder

Search Results: 1-24 of 24 tables and other products match "Your Selections" per page: 25

Selected: View Download Compare Clear All

Narrow your search: GO

ID	Table, File or Document Title	Dataset	About
PUMS-CSV	2006-2010 ACS 5-year Public Use Microdata Samples (PUMS) - CSV format	2010 ACS 5-year estimates	?
PUMS-CSV	2008-2010 ACS 3-year Public Use Microdata Samples (PUMS) - CSV format	2010 ACS 3-year estimates	?
PUMS-CSV	2010 ACS 1-year Public Use Microdata Samples (PUMS) - CSV format	2010 ACS 1-year estimates	?
PUMS-SAS	2006-2010 ACS 5-year Public Use Microdata Samples (PUMS) - SAS format	2010 ACS 5-year estimates	?
PUMS-SAS	2008-2010 ACS 3-year Public Use Microdata Samples (PUMS) - SAS format	2010 ACS 3-year estimates	?
PUMS-SAS	2010 ACS 1-year Public Use Microdata Samples (PUMS) - SAS format	2010 ACS 1-year estimates	?
PUMS-CSV	2005-2009 ACS 5-year Public Use Microdata Samples (PUMS) - CSV format	2009 ACS 5-year estimates	?
PUMS-CSV	2007-2009 ACS 3-year Public Use Microdata Samples (PUMS) - CSV format	2009 ACS 3-year estimates	?
PUMS-CSV	2009 ACS 1-year Public Use Microdata Samples (PUMS) - CSV format	2009 ACS 1-year estimates	?

American FactFinder (cont'd)

PUMS-CSV

2010 ACS 1-year Public Use Microdata Samples (PUMS) - CSV format
2010 ACS 1-year estimates

United States Population Records	United States Housing Unit Records
Alabama Population Records	Alabama Housing Unit Records
Alaska Population Records	Alaska Housing Unit Records
Arizona Population Records	Arizona Housing Unit Records
Arkansas Population Records	Arkansas Housing Unit Records
California Population Records	California Housing Unit Records
Colorado Population Records	Colorado Housing Unit Records
Connecticut Population Records	Connecticut Housing Unit Records
Delaware Population Records	Delaware Housing Unit Records
District of Columbia Population Records	District of Columbia Housing Unit Records
Florida Population Records	Florida Housing Unit Records

American FactFinder (cont'd)

- Main benefit of accessing PUMS via AFF:
 - Convenient access if comfortable with AFF from regular use of summary tables

Census Bureau FTP Site

U.S. Department of Commerce



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Name	Last modified	Size	Description
Parent Directory		-	
PUMS file naming convention.pdf	15-Oct-2012 12:18	36K	
csv_hak.zip	15-Oct-2012 16:12	713K	
csv_hal.zip	15-Oct-2012 16:12	4.1M	
csv_har.zip	15-Oct-2012 16:12	2.5M	
csv_hat.zip	15-Oct-2012 16:12	5.2M	
csv_hca.zip	15-Oct-2012 16:13	25M	
csv_hco.zip	15-Oct-2012 16:13	4.2M	
csv_hct.zip	15-Oct-2012 16:13	2.9M	
csv_hdc.zip	15-Oct-2012 16:13	706K	
csv_hde.zip	15-Oct-2012 16:13	902K	
csv_hfl.zip	15-Oct-2012 16:13	16M	
csv_hga.zip	15-Oct-2012 16:13	7.6M	
csv_hhi.zip	15-Oct-2012 16:13	1.1M	
csv_hia.zip	15-Oct-2012 16:13	2.6M	
csv_hid.zip	15-Oct-2012 16:13	1.4M	
csv_hil.zip	15-Oct-2012 16:13	9.7M	
csv_hin.zip	15-Oct-2012 16:13	5.3M	



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Census Bureau FTP Site (cont'd)

- Main benefit of accessing PUMS via FTP:
 - *Complete* listing of files by year and state



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DataFerrett (cont'd)

- Main benefit of accessing PUMS via DF:
 - Menu driven system doesn't require knowledge of a stats package (i.e. SAS, SPSS, etc.)
 - Ability to download variables individually

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Analyzing PUMS Data

- National level files must be concatenated
 - See PUMS ReadMe
- Use SERIALNO variable to merge housing and person records to create complete file
 - See PUMS ReadMe

PUMS Weighting

- A weight defines how many persons and housing units one PUMS sample interview represents
- The PUMS weight is defined based on the ACS full sample weight and the sub-sampling interval
 - Complex weighting procedures described in the “Accuracy of the PUMS”

Types of PUMS Weights

- PUMS household weights (wgtp) must be used to produce housing unit estimates
- PUMS person weights (pwgtp) must be used to produce population estimates
- PUMS replicate weights (wgtp1 – wgtp80 and pwgtp1 – pwgtp80) are used for calculating standard errors

Estimating Variance with PUMS

- Problem: PUMS is not a simple random sample
 - Stratified samples with complex weighting
 - Sample drawn at household level (i.e., not a simple random sample of individuals)
- Solutions:
 - Use weighting variable and a “design factor”
 - Use weighting variable and 80 “replicate weights”
 - Both methods explained in “Accuracy of the PUMS”

Quick Check on Reliability

- Examine unweighted data table or frequencies of sample counts
- Be careful using estimates based on a small handful of cases
- To obtain more cases:
 - Use multiyear files
 - Combine geographic areas

Extreme Values are Masked

- PUMS files have top- and bottom-coding to avoid disclosure
- Affects:
 - Dollar-amount variables (all kinds of income, mortgage, rent, utilities, property taxes, home value, property insurance costs)
 - Number of rooms and bedrooms
 - Age
 - Travel time to work, hours worked

Operational Variable Availability

- Mode of data collection
 - Mail-in distinguished from telephone/personal interview
- Group quarters type
 - Institutional is distinguished from non-institutional
- Allocated data
 - Identified in “data quality flag” variables
- Month of data collection: not provided

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PUMS Documentation

- Subjects in the PUMS
- Code Lists
- PUMS Top Coded and Bottom Coded Values
- PUMS Estimates for User Verification
- Accuracy of the PUMS

http://www.census.gov/acs/www/data_documentation/pums_documentation/

PUMS Guidance

Compass Handbook on Using PUMS

http://www.census.gov/acs/www/guidance_for_data_users/handbooks/

- soup-to-nuts overview of getting and using the data

Training PPT on Using PUMS

http://www.census.gov/acs/www/guidance_for_data_users/training_presentations/

- overview of PUMS basics

TheDataWeb

DataFerrett

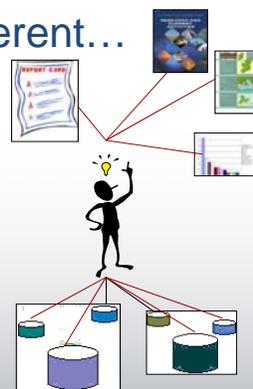
The Census Bureau's Breakthrough Technologies

- **TheDataWeb** is an internet based distributed data network of public and private databases--a "virtual" data warehouse.
- **DataFerrett** is a data mining, extraction, and tabulation tool that allows analysis of datasets available in TheDataWeb.

TheDataWeb Defined

An infrastructure for linking different databases into a single virtual data warehouse that supports different...

- vendors
- file structures
- data types
- file security models



DataFerrett Defined

DataFerrett is an analytical interface to TheDataWeb.
It allows a user to:

- Browse (search & discover) all of the datasets that are accessible via TheDataWeb
- Produce sophisticated analyses using tables, graphs, and maps
- Select variables from multiple datasets and integrate data on-the-fly

What DataFerrett Can Do

- Data manipulation through simple universe restrictions & variable recoding
- Pre-merges hierarchical microdata files
- Frequencies, cross- and multi-dimensional (nested) tables
- Spreadsheet formulas
- Maps & graphs
- Save as HTML, PDF & JPEG

Simple Cross-Tabulation

The screenshot shows the Ferret Tabulation interface. The main table displays a cross-tabulation of race categories (R1-R9) across columns C1 through C6. The data is as follows:

	C1	C2	C3	C4	C5	C6
R1		Total RECODE2	Not Hispanic	Hispanic		
R2	Total RECODE1	56,600	42,751	13,849		
R3	White alone	26,109	20,013	6,096		
R4	Black or African American alone	17,455	17,317	138		
R5	AIAN alone	214	214	0		
R6	Asian alone	4,874	4,874	0		
R7	Native Hawaiian and Other Pacific Islander alone	0	0	0		
R8	Some other race alone	7,267	68	7,199		
R9	Two or more major race groups	681	265	416		

The right-hand panel contains the following information:

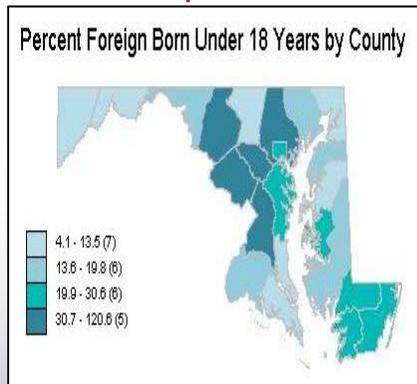
- GCR Responsible for grandchildren
- GEOG-101 FIPS State Code
- RAC1P Race1 recode
- HISP Hispanic recode
- RECODE1 Race Recode
- RECODE2 Hispanic - Not Hispanic
- Universe: (GCR in (1)) AND ((IST
- Weight used: PWGTP
- DataSet(s) selected: 2005

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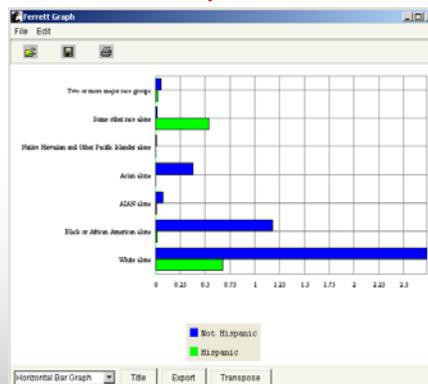
Data Visualization

Highlight spreadsheet rows or columns to create:

Maps



Graphs



Powerful Tabulation Capabilities

Simple table layout that supports:

- Flexible design
- Frequencies and trends
- Spreadsheet math for robust analysis
- Complex nesting
- Hide columns/rows
- Applies weighting variables
- Fast results using large datasets

	Total in Labor Force		Employed		Unemployed	
	Male	Female	Male	Female	Male	Female
01 Total: Education - 19 Labor Force	78,463,228	61,679,771	43,318,584	38,876,184	35,144,644	26,803,587
02 Less Than 1st Grade	232,865	188,668	148,889	157,724	25,975	14,934
03 1st-2nd-3rd-4th-5th Grade	679,118	230,862	586,526	187,328	42,192	43,527
04 6th-7th-8th Grade	1,371,122	438,961	1,244,839	363,821	188,272	72,864
05 9th-10th Grade	1,318,163	738,762	1,183,722	627,821	134,941	152,831
06 11th Grade	1,701,630	1,119,725	1,491,086	979,929	233,624	199,797
07 12th Grade	2,208,920	1,417,761	1,821,488	1,276,768	207,015	278,364
08 11th-12th Grade	2,844,985	2,138,417	2,454,361	1,824,758	390,624	301,689
09 12th Grade No Diploma	1,341,687	778,462	1,045,690	703,612	114,507	84,890
10 High School Grad Diploma Or Equivalent (HS2)	23,948,920	18,962,089	14,622,099	14,842,476	4,074,422	3,828,271
11 Some College But No Degree	14,563,013	11,278,620	11,663,081	11,553,440	909,631	728,478
12 Associate Degree Occupational/Technical	3,171,943	3,608,261	3,173,024	4,475,721	194,479	152,540
13 Associate Deg. Academic Program	2,626,962	2,228,178	2,262,478	3,116,526	124,076	108,143
14 Bachelor's Degree (Inc. 4-yr)	14,445,523	14,016,914	13,746,882	12,976,905	471,437	425,960
15 Government - Federal	430,622	308,170	413,228	302,950	11,393	5,820
16 Government - State	636,266	636,960	632,706	639,968	1,802	2,025
17 Government - Local	1,093,046	1,467,165	1,081,529	1,820,727	12,507	36,428
18 Private, For Profit	8,683,227	7,944,746	8,268,887	7,225,822	394,240	318,976
19 Private, Not Profit	9,179,977	1,648,439	9,602,287	1,824,123	11,492	26,396
20 Self Employed, Incorporated	1,837,620	368,345	1,824,939	351,046	13,062	4,179
21 Self Employed, Unincorporated	1,228,473	738,251	1,057,880	712,238	23,993	18,114
22 Without Pay	0	8,792	0	8,792	0	0
23 Health & Retirement Plan (HRRP)	5,256,612	5,094,156	4,933,866	4,963,933	138,146	113,223
24 Professional School Degree (PESD) (PMS)	1,878,478	782,546	1,545,146	742,321	24,832	20,234

DataFerrett Users

- Intended for:
 - Users who cannot get what they need from pre-defined data tables
 - Users needing quick, yet sophisticated tabulations
 - Users that want to “play” with the data

What We're Working On

- Calculating variances on-the-fly for microdata tabulations
- Calculating margins of error for custom summations of aggregate data
- Integrating Google maps with DataFerrett thematic maps

Supports Multiple Data Types

(Needed for data integration)

Microdata: Individual transaction records, or survey response records. Data are often in multiple files (e.g. Household, Person, Geography files).

Aggregate (Macro) Data: Data that has already been tabulated. You must pick from variables or dimensions already tabulated (i.e. geography).

Timeseries: Data that can be tabulated by time periods from a cell in a table (poverty rate, or unemployment rate over time).

Longitudinal Data: Follows people over time (microdata).

Exercise 1

Accessing:

- 2012 PUMS
- Foreign Born and Year of Entry
 - Create a Recode for Year of Entry
- All PUMAS within Hawaii
 - Create a Table
 - Create a Formula

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Emergency Preparedness

The U.S. Census Bureau produces timely local data that are critical to emergency planning, preparedness and recovery efforts.

See also: OntheMap for Emergency Preparedness



POPULATION CLOCK

U.S. Population: 324,799,617

World Population: 7,349,670,325

Oct 19, 2016 12:00 UTC (-7) [Learn More](#)



QUICKFACTS

Did You Know

10.3% of persons in Chicago city, Illinois are 65 years and over

Source: 2010 Census

Select a state to begin



U.S. Census Bureau Economic Indicators

Business Investments	\$1,816.9 B	0.2%
August 2016 Report	Released 10:00 AM EDT, 10/14/16	
Advance Monthly Retail Sales	\$455.6 B	0.6%
September 2016 Report	Released 2:30 AM EDT, 10/14/16	
Monthly Wholesale Inventions	\$502.1 B	

[View all](#)
 * Change not statistically significant
 * Agriculture not reported separately

Latest News

2017 Census Test
 Census Bureau Announces Changes to 2017 Field Tests
 October 18, 2016
 The U.S. Census Bureau announced that it will stop plans to test field operations at some sites.

Census Bureau Awards Two Cooperative Agreements
 October 18, 2016
 Cooperative agreements were awarded to teams at Georgetown University and Purdue University to research privacy-preserving data analysis.

Stat of the Day

Trick or Treaters

The estimated number of potential trick-or-treaters in 2015 - children ages 5 to 14 - across the U.S. was 41.1 million.

[Read More](#)

United States
Census Bureau

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov

Open Data

Select Data Tools and Apps

Click Data Tools & Apps Main

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q Search

Data Main

Data Tools & Apps

Find information using interactive applications to get statistics from multiple surveys.

Data Tools & Apps Main

Developers

Mobile Apps

- American FactFinder
- Census Business Builder
- Census Explorer
- My Congressional District
- QuickFacts
- U.S. and World Population Clock

Product Catalog

Related Sites

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Training & Workshops

Visualizations

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Stats in Action: New Orleans, LA: Smoke Alarm Outreach Program

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Census.gov > Data > Data Tools

Data

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- Visualizations

Data Tools and Apps

Find information using interactive applications to get statistics from multiple surveys.

2010 Census Interactive Population Map
Use this tool to explore 2010 Census statistics down to the block level, compare your community with others, and embed charts on your web site.

Access Tools at Other Sites: Integrated Public Use Microdata Series (IPUMS) [University of Minnesota].

American FactFinder
This interactive application provides statistics from the Economic Census, the American Community Survey, and the 2010 Census, among others.

American Housing Survey Table Creator
The AHS Table Creator gives you the ability to create customized tables from the American Housing Survey without having to use the Public Use File (microdata).

Business Dynamics Statistics
This tool shows tabulations on establishments, firms, and employment with unique information on firm age and firm size.

CPS Table Creator
The CPS Table Creator gives you the ability to create customized tables from the Current Population Survey's Annual Social and Economic Supplement (CPS ASEC).

Censtats
Applications available include: Census Tract Street Locator, County Business Patterns, Zip Business Patterns, International Trade Data, and more.

Click on DataFerrett

Census 2000 EEO Data Tool
 Select levels of geography based on residence or workplace. The estimates present information for various occupation groupings by race and ethnicity and sex.

Census Business Builder
 Census Business Builder offers small business owners selected Census Bureau & other statistics to guide their research for opening or expanding their business.

Census Explorer
 Make new discoveries about your neighborhood through the power of statistics with the U.S. Census Bureau's newest mapping tool.

Census Flows Mapper
 The Census Flows Mapper is a web mapping application intended to provide users with a simple interface to view, save and print migration flows maps.

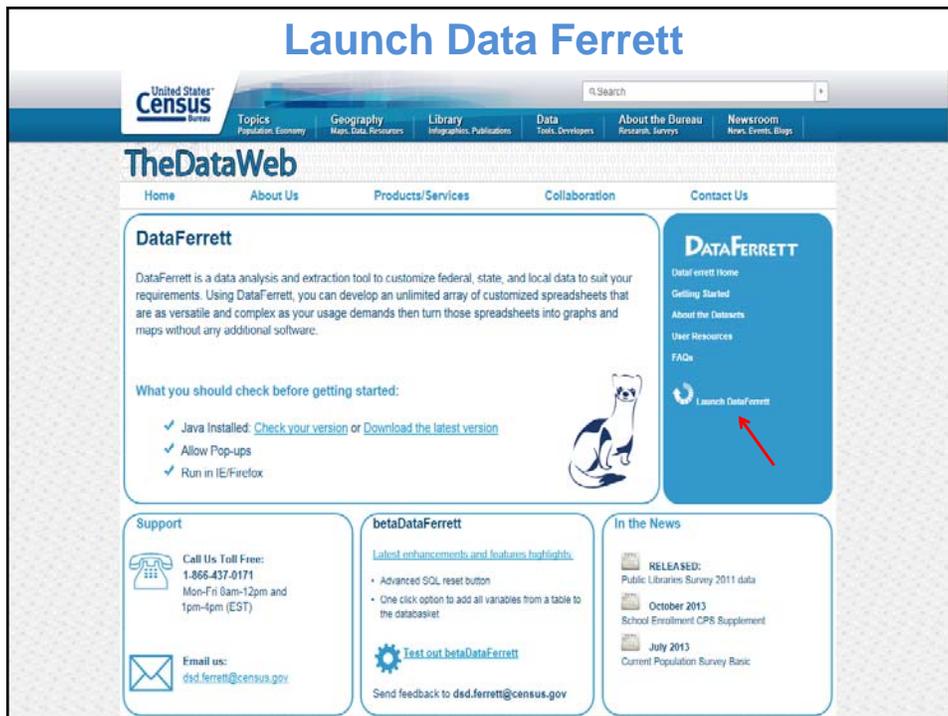
DataFerrett
 This tool is the analytical interface to TheDataWeb and allows users to create custom tables and data visualizations, such as graphs and thematic maps.

Direct File Access: Census 2010 datasets
 Download datasets.

Direct File Access: Census OUTGOING File Directory (HTTP)
 Pickup files from Census Employees.




Launch Data Ferrett



The screenshot shows the DataFerrett website interface. At the top, there is a navigation bar with the United States Census Bureau logo and a search box. Below the navigation bar, the main content area features a large blue box for "DataFerrett" with a description and a list of "What you should check before getting started:" including Java installation, pop-ups, and browser requirements. To the right of this box is a sidebar with a "DATAFERRETT" logo and a "Launch DataFerrett" button with a red arrow pointing to it. Below the main content area, there are three smaller boxes: "Support" with contact information, "betaDataFerrett" with a "Test out betaDataFerrett" button, and "In the News" with a list of recent releases.

CAUTION

Do Not Navigate Away or Close This Window While DataFerret is Loading

The screenshot shows the 'TheDataWeb' interface with a 'DataFerret' application launch page. A yellow caution box with a warning icon and the text 'Do Not: Navigate Away or Close This Window. Doing so will cause DataFerret to QUIT.' is overlaid on the page. The page also includes a search bar, navigation tabs (Home, About Us, Products/Services, Collaboration, Contact Us), and a list of 'What you should do' (Java Install, Allow Popups, Run in IE). A 'Support' section provides contact information. The footer contains various links like 'ABOUT US', 'FIND DATA', 'BUSINESS & INDUSTRY', 'PEOPLE & HOUSEHOLDS', and 'SPECIAL TOPICS'.

Enter Your Email Address Click Ok

The screenshot shows the 'Ferrett Login' dialog box. The 'Email address:' field contains 'jerr.b.wong@census.gov'. A red arrow points to this field. Below the field is a checked checkbox for 'public use data only'. Another red arrow points to the 'Ok' button. The dialog box text states: 'The email address is used to send large extracts via email, and to inform users of new datasets available if desired. It is NOT used for any other purpose or shared with any organization.' The background shows the 'DataFerret' interface with a 'Get Data Now' button.

Get Data Now

DataFerrett

File Edit View Options Special Help

Introduction Step1: Select Dataset & Variable Step2: DataBasket/Download/Make A Table

data: (da + ta) n. A collection of facts from which conclusions may be drawn



DataFerrett

Browser to TheDataWeb

ferret: (fer + r) v. To uncover and to bring to light by searching; to search intensively

- Tutorials**
Brand new to using DataFerrett ...
- Examples**
Sample Analysis and instruction ...
- Users' Guide**
Handbook on all DataFerrett functionality ...
- Kinds of Datasets**
Overview different Data Set types and how they behave ...
- Datasets Available**
Datasets and topics that are available ...

About TheDataWeb
A collaborative network of Internet data bases ...

Download Server
Adding/Publishing your data to TheDataWeb ...

Discussion Group
Information sharing with other users ...

Get Data Now

Select a Dataset

click American Community Survey

DataFerrett

Introduction Step1: Select Dataset & Variable Step2: DataBasket/Download/Make A Table

Select Data Types:

- MicroData
- Aggregate Data
- Longitudinal Data
- Time Series Data

Refresh Dataset List

Microdata is data in which every record is at the unit of analysis level and all records must be added up to get the totals for each data item. For example, for surveys of individuals, microdata contain records for each individual interviewed; for surveys of organizations, the microdata contain records for each organization.

Variable Labels Names Topics Question Text Values

Search

match ANY word match ALL words

Highlight the variables you are interested in

0 Variables returned from search. 0 variables selected in DataBasket.

Please click the instruction image for **Instruction**

- Search All Datasets
- American Community Survey
- American Housing Survey
- Common Core of Data(Education)
- Consumer Expenditure Survey
- County Business Patterns
- Current Population Survey
- Decennial Census of Population and Housing
- Decennial Public Use Microdata Samples
- Home Mortgage Disclosure Act
- Mortality
- National Ambulatory Medical Care Survey
- National Health Interview Survey
- National Hospital Ambulatory Medical Care Sur
- National Population Projections
- National Survey of Fishing, Hunting, and Wildl
- Population Estimates
- Public Libraries Survey
- Small Area Income and Poverty Estimates
- Social Security Administration
- Survey of Income and Program Participation
- Survey of Program Dynamics

Select Data Types: **MicroData** is data in which every record is at the unit of analysis level and all records must be added up to get the totals for each data item. For example, for surveys of individuals, microdata contain records for each individual interviewed; for surveys of organizations, the microdata contain records for each organization.

- MicroData
- Aggregate Data
- Longitudinal Data
- Time Series Data

Refresh Dataset List

Select Dataset(s) to search:

- American Community Survey
 - 3-Year Estimates - Public Use Microdata Sample
 - 3-Year Estimates - Puerto Rico PUMS
 - 5-Year Estimates - Public Use Microdata Sample
 - 5-Year Estimates - Puerto Rico PUMS
 - Public Use Microdata Sample
 - 2014** (Description, View Variables)
 - 2013
 - 2012
 - 2011
 - 2010
 - 2009
 - 2008
 - 2007
 - 2006
 - 2005
 - 2004
- Puerto Rico Public Use Microdata Sample
- Summarized Data
- American Housing Survey
- Common Core of Data(Education)
- Consumer Expenditure Survey
- County Business Patterns
- Current Population Survey
- Decennial Census of Population and Housing

Select American Community Survey

Open PUMS to view years

Select 2014

Click View Variables (drop down)

Click Select All Topics and click Search Variables

Introduction | Step 1: Select Dataset & Variable | Step 2: Databasket/Download/Make A Table

Select Data Types: **MicroData** is data in which every record is at the unit of analysis level and all records must be added up to get the totals for each data item. For example, for surveys of individuals, microdata contain records for each individual interviewed; for surveys of organizations, the microdata contain records for each organization.

- MicroData
- Aggregate Data
- Longitudinal Data
- Time Series Data

Refresh Dataset List

Variable Labels Names Topics Question Text Values

match ANY word | match ALL words | Search

Select Dataset(s) to search:

- American Community Survey
 - 3-Year Estimates - Public Use Microdata Sample
 - 3-Year Estimates - Puerto Rico PUMS
 - 5-Year Estimates - Public Use Microdata Sample
 - 5-Year Estimates - Puerto Rico PUMS
 - Public Use Microdata Sample
 - 2014**
 - 2013
 - 2012
 - 2011
 - 2010
 - 2009
 - 2008
 - 2007
 - 2006
 - 2005
 - 2004
- Puerto Rico Public Use Microdata Sample
- Summarized Data
- American Housing Survey
- Common Core of Data(Education)
- Consumer Expenditure Survey
- County Business Patterns
- Current Population Survey
- Decennial Census of Population and Housing

Highlight the variables you are interested in

0 Variables returned from search. 0 variables selected in Databasket.

Select All Topics

- Housing
- Selectable Geographies
- Population
- Replicate Weights
- Geographic Entities

Search Variables

A-Z for Name Column, Click on 'Name' scroll down to Nativity

Introduction | **Step 1: Select Dataset & Variable** | **Step 2: Databasket (Download/Make A Table)**

Select Data Types: MicroData Aggregate Data Longitudinal Data Time Series Data

Microdata is data in which every record is at the unit of analysis level and all records must be added up to get the totals for each data item. For example, for surveys of individuals, microdata contain records for each individual interviewed; for surveys of organizations, the microdata contain records for each organization.

Variable Labels Names Topics Question Text Values

Search:

match ANY word match ALL words

Select Dataset(s) to search:

Highlight the variables you are interested in

377 Variables returned from search. 0 variables selected in Databasket.

Topic	Name	Availability	Variable Label
Housing	ACCESS	2013 - current	Access to the Internet
Housing	ACR	2006 - current	Lot size
Housing	ADHSG	2014 - 2014	Adjustment factor for housing dollar amounts (6 implied decimal places)
Housing	ADINC	2014 - 2014	Adjustment factor for income and earnings dollar amounts(6 implied decimal places)
Population	AGEP	2006 - current	Age
Housing	AGS	2006 - current	Sales of Agriculture Products (Yearly sales)
Population	ANC	2006 - current	Ancestry categorization
Population	ANCP	2012 - current	Recorded Detailed Ancestry - first entry
Population	ANCP2	2012 - current	Recorded Detailed Ancestry - second entry
Housing	BATH	2008 - current	Bathub or shower
Housing	BOSP	2008 - current	Number of bedrooms
Housing	BLD	2006 - current	Units in structure
Housing	BROADB	2013 - current	Mobile broadband plan
Housing	BUS	2006 - current	Business on property
Population	CT	2006 - current	Citizenship status
Population	CTNRP	2012 - current	Year of naturalization write-in
Housing	COMPOT	2013 - current	Other computer equipment
Housing	CONP	2010 - current	Condo fee (monthly amount)
Population	COW	2006 - current	Class of worker
Population	DORS	2006 - current	Difficulty dressing
Population	DEAR	2008 - current	Hearing difficulty
Population	DECADE	2006 - current	Decade of entry
Population	DEYE	2008 - current	Vison difficulty

Select Nativity, hold control button down and select Year of Entry (YOEP)

Introduction | **Step 1: Select Dataset & Variable** | **Step 2: Databasket (Download/Make A Table)**

Select Data Types: MicroData Aggregate Data Longitudinal Data Time Series Data

Microdata is data in which every record is at the unit of analysis level and all records must be added up to get the totals for each data item. For example, for surveys of individuals, microdata contain records for each individual interviewed; for surveys of organizations, the microdata contain records for each organization.

Variable Labels Names Topics Question Text Values

Search:

match ANY word match ALL words

Select Dataset(s) to search:

Highlight the variables you are interested in

377 Variables returned from search. 0 variables selected in Databasket.

Topic	Name	Availability	Variable Label
Housing	MRGT	2008 - current	First mortgage payment includes real estate taxes
Housing	MRGT2	2008 - current	First mortgage status
Population	MSP	2006 - current	Married, spouse present/spouse absent
Housing	MULTG	2008 - current	Multigenerational Household
Housing	MV	2006 - current	When moved into this house or apartment
Population	NAICSP	2013 - current	NAICS Industry recode for 2013 and later based on 2012 NAICS codes
Population	NATIVITY	2006 - current	Nativity
Housing	NOC	2006 - current	Number of own children in household (unweighted)
Population	NOP	2006 - current	Nativity of Parent
Housing	NP	2006 - current	Number of person records following this housing record
Housing	NPF	2006 - current	Number of persons in family
Housing	NPP	2006 - current	GP headed HH with no parent present
Housing	NR	2006 - current	Presence of nonrelative in household
Housing	NRC	2006 - current	Number of related children in household (unweighted)
Population	NWAB	2006 - current	Temporarily absent from work
Population	NWAV	2006 - current	Available for work (UNEDITED-See "Employment Status Recode" (ESR))
Population	NWLA	2006 - current	On layoff from work (UNEDITED-See "Employment Status Recode" (ESR))
Population	NWLK	2006 - current	Looking for work (UNEDITED-See "Employment Status Recode" (ESR))
Population	NWRE	2006 - current	Informed of recall (UNEDITED-See "Employment Status Recode" (ESR))
Population	OC	2006 - current	Own child
Population	OCCP	2012 - current	Occupation recode for 2012 and later based on 2010 OCC codes
Housing	OCCPP	2008 - current	Selected monthly owner costs as a percentage of household income during the past 12 months

Year of Entry
YOEP

Check 'Select' ACS YOEP Deselect box for 1920 Not eligible – Born in US, Click OK

Your highlighted variables:
ACS NATIVITY (2006 -) Nativity
ACS YOEP (2012 -) Year of entry

Select ACS YOEP Year of entry

Deselect all values

1920) Not eligible - Born in the US

1921) 1921 or earlier (Bottom-coded)

1922) 1922 - 1923

1924) 1924 - 1925

1926) 1926 - 1927

1928) 1928 - 1929

1930) 1930 (1/4 1931

1932) 1932 - 1934

1935) 1935 - 1936

1937) 1937 - 1938

1939) 1939

1940) 1940

1941) 1941

1942) 1942

1943) 1943 - 1944

1945) 1945

You have added 2 variables for your DataBasket Click OK

Your highlighted variables:
ACS NATIVITY (2006 -) Nativity
ACS YOEP (2012 -) Year of entry

Select ACS YOEP Year of entry

Deselect all values

1920) Not eligible - Born in the US

1921) 1921 or earlier (Bottom-coded)

1922) 1922 - 1923

1924) 1924 - 1925

1926) 1926 - 1927

1928) 1928 - 1929

1930) 1930 (1/4 1931

1932) 1932 - 1934

1935) 1935 - 1936

1937) 1937 - 1938

1939) 1939

1940) 1940

1941) 1941

1942) 1942

1943) 1943 - 1944

1945) 1945

Confirmation: You have added 2 variables for your DataBasket.

Note: 2 Variables selected in DataBasket
Double Click to Select Geography Variable
Click Browse/Select Highlighted Variable Button

The screenshot shows the DataBasket search interface. On the left, there is a tree view of datasets. The main area displays search results for 'Public Use Microdata Sample' with 377 variables returned. A table lists variables with columns for Topic, Name, Availability, and Variable Label. A red box highlights the table, and a red arrow points to the 'Browse/Select Highlighted Variable' button in the top right corner of the results area.

Topic	Name	Availability	Variable Label
Population	GCL	2006 - current	Grandparents living with grandchildren
Population	GCM	2006 - current	Length of time responsible for grandchildren
Population	GCR	2006 - current	Grandparents responsible for grandchildren
Housing	GRNTP	2006 - current	Gross rent (monthly amount)
Housing	GRPIP	2006 - current	Gross rent as a percentage of household income past 12 months
Selectable Geographies	Geography	2006 - current	Geographic Items
Housing	HANDHEL.D	2013 - current	Handheld computer
Housing	HFL	2006 - current	Type of fuel
Housing	HFL	2006 - current	Household language
Housing	HFT	2006 - current	Household family type
Population	HECOV	2008 - current	Health insurance coverage recode
Housing	HHCIP	2008 - current	Household income (past 12 months)
Population	HNS1	2008 - current	Insurance through a current or former employer or union
Population	HNS2	2008 - current	Insurance purchased directly from an insurance company
Population	HNS3	2008 - current	Medicare, for people 65 and older, or people with certain disabilities
Population	HNS4	2008 - current	Medicaid, Medical Assistance, or any kind of government-assistance plan for those with low incomes
Population	HNS5	2008 - current	TRICARE or other military health care
Population	HNS6	2008 - current	VA (including those who have ever used or enrolled for VA health care)
Population	HNS7	2008 - current	Indian Health Service
Population	HSP	2006 - current	Hispanic recode
Housing	HOTWAI	2014 - current	Water heater (Puerto Rico only)
Housing	HSCC	2006 - current	Household with grandparents living with grandchildren
Population	HSPR	2006 - current	Household response and non-response of children

Select PUMA from types of geos available, highlight the PUMA code in the Hierarchies section and click 'Use Hierarchy'

The screenshot shows the 'Browse/Select Geographies' dialog box. It has two main sections: 'Types of geography available' on the left and 'Hierarchies' in the center. The 'Public Microdata Use Area' is selected under 'Types of geography available'. The 'Hierarchies' section shows a list of geographic codes and their descriptions. A red box highlights the 'Public Microdata Use Area' and the 'Hierarchies' section. A red arrow points to the 'Use Hierarchy' button at the bottom.

Types of geography available:	Hierarchies:
Division	State of current residence > Public use microdata area code (PUMA) based on 2010 Census
Public Microdata Use Area	
Region	
State	

Population	PHINS3C	2009 - current	Medicare coverage given through the eligibility coverage edit
Population	PHINS4C	2009 - current	Medicaid coverage given through the eligibility coverage edit
Population	PHINS5C	2009 - current	TRICARE coverage given through the eligibility coverage edit
Housing	FINCP	2008 - current	Family income (past 12 months)
Population	FOD1P	2010 - current	Recorded field of degree - first entry
Population	FOD2P	2010 - current	Recorded field of degree - second entry
Housing	FPARC	2006 - current	Presence, age of related children
Housing	F5	2008 - current	Yearly food stamp/Supplemental Nutrition Assistance Program reciprocity
Housing	FULP	2006 - current	Fuel cost (yearly cost for fuels other than gas and electricity)
Housing	GASP	2006 - current	Gas (monthly cost)
Population	GCL	2006 - current	Grandparents living with grandchildren
Population	GCM	2006 - current	Length of time responsible for grandchildren
Population	GCR	2008 - current	Grandparents responsible for grandchildren
Housing	GRNTP	2006 - current	Gross rent (monthly amount)
Housing	GRPIP	2006 - current	Gross rent as a percentage of household income past 12 months
Selectable Geographies	Geography	2006 - current	Geographic Items

Double click Hawaii from 'Select State of current residence', Highlight Hawaii in middle box and click 'Next Level'

Select State of current residence

Delaware
District of Columbia
Florida
Georgia
Hawaii
Idaho
Illinois
Indiana
Iowa
Kansas
Kentucky

State of current residence(s) to drop into.

Hawaii

Selected Geographic Areas:

Search Previous Level **Next Level** Cancel Delete Selection Clear All Finish

Population	FHINS3C	2009 - current	Medicare coverage given through the eligibility coverage edit
Population	FHINS4C	2009 - current	Medicaid coverage given through the eligibility coverage edit
Population	FHINS5C	2009 - current	TRICARE coverage given through the eligibility coverage edit
Housing	FINCP	2008 - current	Family income (past 12 months)
Population	FOD1P	2010 - current	Recorded field of degree - first entry
Population	FOD2P	2010 - current	Recorded field of degree - second entry
Housing	FPARC	2006 - current	Presence, age of related children
Housing	FS	2008 - current	Yearly food stamp/Supplemental Nutrition Assistance Program reciprocity

Note: ALL PUMAs in Hawaii are Listed. Double Click Select All. They will be added to the Selected Geographies Areas (right side box), Click Finish

Select Public use microdata area code (PUMA) based on 2010 Census definition

Select All

Maui, Kaula & Kauai Counties
Hawaii County
Honolulu County--Rural Oahu
Honolulu County--Koolauapoko
Honolulu County--East Honolulu to Kapahulu
Honolulu County--Tantalus to Waikiki
Honolulu County--Nuuanu to Kalia
Honolulu County--Moanalua to Pearl City
Honolulu County--Central Oahu

Public use microdata area code (PUMA) based on 2010 Census definition(s) added.

Public Use Microdata Area (PUMA) Count: 10
Maui, Kaula & Kauai Counties
Hawaii County
Honolulu County--Rural Oahu
Honolulu County--Koolauapoko
Honolulu County--East Honolulu to Kapahulu
Honolulu County--Tantalus to Waikiki
Honolulu County--Nuuanu to Kalia
Honolulu County--Moanalua to Pearl City
Honolulu County--Central Oahu
Honolulu County--Ewa

Search Previous Level Next Level Cancel Delete Selection Clear All **Finish**

Population	FHINS3C	2009 - current	Medicare coverage given through the eligibility coverage edit
Population	FHINS4C	2009 - current	Medicaid coverage given through the eligibility coverage edit
Population	FHINS5C	2009 - current	TRICARE coverage given through the eligibility coverage edit
Housing	FINCP	2008 - current	Family income (past 12 months)
Population	FOD1P	2010 - current	Recorded field of degree - first entry
Population	FOD2P	2010 - current	Recorded field of degree - second entry
Housing	FPARC	2006 - current	Presence, age of related children
Housing	FS	2008 - current	Yearly food stamp/Supplemental Nutrition Assistance Program reciprocity
Housing	FULP	2006 - current	Fuel cost (yearly cost for fuels other than gas and electricity)
Housing	GASP	2006 - current	Gas (monthly cost)
Population	GCL	2006 - current	Grandparents living with grandchildren
Population	ECM	2006 - current	Length of time responsible for grandchildren
Population	ECR	2008 - current	Grandparents responsible for grandchildren
Housing	GRNTP	2006 - current	Gross rent (monthly amount)
Housing	GRPIP	2006 - current	Gross rent as a percentage of household income past 12 months
Selectable Geographies Geography 2006 - current Geographic Items			

Note: There are 3 variables in DataBasket
We will need to create a new variable (recode) to define just 2 categories of the year of entry – 1) before 2000 and 2) in 2000 or later.
Click on Step2: DataBasket/Download/Make A Table

Select Data Types: MicroData Aggregate Data Longitudinal Data Time Series Data

Select Dataset(s) to search:

Topic	Name	Availability	Variable Label
Population	GCL	2006 - current	Grandparents living with grandchildren
Population	GCM	2006 - current	Length of time responsible for grandchildren
Population	GCR	2008 - current	Grandparents responsible for grandchildren
Housing	GRNTP	2006 - current	Gross rent (monthly amount)
Housing	GRPIP	2006 - current	Gross rent as a percentage of household income past 12 months
Selectable Geographies	Geography	2006 - current	Geographic Items
Housing	HANDHELD	2013 - current	Handheld computer
Housing	HFL	2006 - current	Type of fuel
Housing	HHL	2006 - current	Household language
Housing	HHT	2006 - current	Household/family type
Population	HICOV	2008 - current	Health insurance coverage recode
Housing	HINCP	2008 - current	Household income (past 12 months)
Population	HIN61	2008 - current	Insurance through a current or former employer or union
Population	HIN62	2008 - current	Insurance purchased directly from an insurance company
Population	HIN63	2008 - current	Medicare, for people 65 and older, or people with certain disabilities
Population	HIN64	2008 - current	Medicaid, Medical Assistance, or any kind of government-assistance plan for those with low incomes
Population	HIN65	2008 - current	TRICARE or other military health care
Population	HIN66	2008 - current	VA (including those who have ever used or enrolled for VA health care)
Population	HIN67	2008 - current	Indian Health Service
Population	HISP	2006 - current	Hispanic race
Housing	HOTWAT	2014 - current	Water heater (Puerto Rico only)
Housing	HJGCI	2006 - current	Household with grandchild living with grandchildren

To recode Year of Entry, highlight YOEP and Click 'Recode Variable' from right side of screen

Act on Your Query:

- Recode Variable**
- Delete Variable(s)
- View/Modify Variable(s)
- Advanced Sql Option
- Change Longitudinal Period
- Add TimeSeries Time
- Merge Datasets
- Save Selected Variable(s) CodeBook
- Create Multi-Variable Data Step

Current Query Variables from ACS (Public Use Microdata Sample):

Name	Variable Label	Availability
NATIVITY	Nativity	2006 - current
YOEP	Year of entry	2012 - current
GEOG-101	Public Use Microdata Area (PUMA)	2012 - current

Ferrett Microdata Recode1

Recode/Regroup Variables

Recode1 is label for the Variable Recode of YOEP

Highlight the value(s) to recode/regroup

Value	Description
1921	1921 or earlier (Bottom-coded)
1922	1922 - 1923
1924	1924 - 1925
1926	1926 - 1927
1928	1928 - 1929
1930	1930 & 1931
1932	1932 - 1934
1935	1935 - 1936
1937	1937 - 1938
1999	1999

Label	Values
1 Not Elsewhere Classified (rec.)	{1921, 1922, 1924, 1926, 1928, 1930, 1932

Set to value 1 Recode

Ok Cancel

Act on Your Query:

- Recode Variable
- Delete Variable(s)
- View/Modify Variable(s)
- Advanced Sql Option
- Change Longitudinal Period
- Add TimeSeries Time
- Merge Datasets
- Save Selected Variable(s) CodeBook
- Create Multi-Variable Data Step

Rename Recode1 to 'Year of Entry Recode' and highlight all of the categories from 1921 to 1999 and click Recode button below

Ferrett Microdata Recode1

Recode/Regroup Variables

of Entry Recode is label for the Variable Recode of YOEP

Highlight the value(s) to recode/regroup

Value	Description
1921	1921
1922	1922
1923	1923
1924	1924
1925	1925
1926	1926
1927	1927
1928	1928
1929	1929
1930	1930
1931	1931
1932	1932
1933	1933
1934	1934
1935	1935
1936	1936
1937	1937
1938	1938
1939	1939
1999	1999
2000	2000

Label	Values
1 Not Elsewhere Classified (rec.)	{1921, 1922, 1924, 1926, 1928, 1930, 1932

Set to value 1 Recode

Ok Cancel

Act on Your Query:

- Recode Variable
- Delete Variable(s)
- View/Modify Variable(s)
- Advanced Sql Option
- Change Longitudinal Period
- Add TimeSeries Time
- Merge Datasets
- Save Selected Variable(s) CodeBook
- Create Multi-Variable Data Step

**Note: there are two categories for the new recoded variable:
RecodeValue1 and Not Elsewhere Classified
double click on 'RecodeValue_1' to change name to 'Before 2000'
(Make sure to hit the Enter Key).**

of Entry Recode: is label for the Variable Recode of YOEP

Value	Description	Label	Values
1992	1992	1	{1921, 1922, 1924, 1926, 1928, 1930, 1932
1993	1993	2	{2000, 2001, 2002, 2003, 2004, 2005, 2006
1994	1994		
1995	1995		
1996	1996		
1997	1997		
1998	1998		
1999	1999		
2000	2000		
pnmi	pnmi		

Set to value 2 Recode

Act on Your Query:

- Recode Variable
- Delete Variable(s)
- View/Modify Variable(s)
- Advanced Sql Option
- Change Longitudinal Period
- Add TimeSeries Time
- Merge Datasets
- Save Selected Variable(s) CodeBook
- Create Multi-Variable Data Step

Double Click on 'Not Elsewhere Classified' to change name to '2000 or Later' (Make sure to hit the Enter Key). Finish by Clicking OK

of Entry Recode: is label for the Variable Recode of YOEP

Value	Description	Label	Values
1992	1992	1	{1921, 1922, 1924, 1926, 1928, 1930, 1932
1993	1993	2	{2000, 2001, 2002, 2003, 2004, 2005, 2006
1994	1994		
1995	1995		
1996	1996		
1997	1997		
1998	1998		
1999	1999		
2000	2000		
pnmi	pnmi		

Set to value 2 Recode

Act on Your Query:

- Recode Variable
- Delete Variable(s)
- View/Modify Variable(s)
- Advanced Sql Option
- Change Longitudinal Period
- Add TimeSeries Time
- Merge Datasets
- Save Selected Variable(s) CodeBook
- Create Multi-Variable Data Step

**Note: "Year of Entry Recode" now listed
Click Make a Table**

Review your variables then go back to select more variables or go on to get data

Current Query Variables from ACS (Public Use Microdata Sample):

Name	Variable Label	Availability
NATIVITY	Nativity	2006 - current
YOEP	Year of entry	2012 - current
GEOG-101	Public Use Microdata Area (PUMA)	2012 - current
RECODE1	Year of Entry Recode	2012 - current

Act on Your Query:

- Recode Variable
- Delete Variable(s)
- View/Modify Variable(s)
- Advanced Sql Option
- Change Longitudinal Period
- Add TimeSeries Time
- Merge Datasets
- Save Selected Variable(s) CodeBook
- Create Multi-Variable Data Step

Review your variables then go back to select more variables or go on to get data

Current Query Variables from ACS (Public Use Microdata Sample):

Name	Variable Label	Availability
NATIVITY	Nativity	2006 - current
YOEP	Year of entry	2012 - current
GEOG-101	Public Use Microdata Area (PUMA)	2012 - current
RECODE1	Year of Entry Recode	2012 - current
PWGTP	PUMS person weight	2006 - current

Ferrett Tab Message

Making a Table

1. Click and highlight to select variable.
2. Hold mouse key to turn cursor into a hand, then drag selected variable to Column 1 or Row 1 on spreadsheet. You can type over any value labels in order to make them more readable.
3. Click on GO on the toolbar to get data results.

For Formulas and other advanced spreadsheet functionality see Help, Contents in menu bar.

OK

Act on Your Query:

- Recode Variable
- Delete Variable(s)
- View/Modify Variable(s)
- Advanced Sql Option
- Change Longitudinal Period
- Add TimeSeries Time
- Merge Datasets
- Save Selected Variable(s) CodeBook
- Create Multi-Variable Data Step

You Will Now Make A Nested Table Using the Variables

Pivot(s) can be dropped on pivot image above R1.

	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	
R1																							
R2																							
R3																							
R4																							
R5																							
R6																							
R7																							
R8																							
R9																							
R10																							
R11																							
R12																							
R13																							
R14																							
R15																							
R16																							
R17																							
R18																							
R19																							
R20																							
R21																							
R22																							
R23																							
R24																							
R25																							
R26																							
R27																							
R28																							
R29																							
R30																							

Drag and drop a variable(s) to a column or row.

Drag the Geog-101 PUMA to R2,C1

Pivot(s) can be dropped on pivot image above R1.

	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
R1															
R2	Total GEOG-101		?												
R3	Maui, Kalawao & Kauai Counties PUMA, Hawaii		?												
R4	Hawaii County PUMA, Hawaii		?												
R5	Honolulu County--Rural Oahu PUMA, Hawaii		?												
R6	Honolulu County--Koolau-poko PUMA, Hawaii		?												
R7	Honolulu County--East Honolulu to Kapahulu PUMA, Hawaii		?												
R8	Honolulu County--Tantalus to Waikiki PUMA, Hawaii		?												
R9	Honolulu County--Nuuanu to Kailihi PUMA, Hawaii		?												
R10	Honolulu County--Moanalua to Pearl City PUMA, Hawaii		?												
R11	Honolulu County--Central Oahu PUMA, Hawaii		?												
R12	Honolulu County--Ewa PUMA, Hawaii		?												
R13															
R14															
R15															
R16															
R17															
R18															
R19															
R20															
R21															
R22															
R23															
R24															

Drag and drop a variable(s) to a column or row.

Drag Nativity variable to R1,C2

(C2:7)

Pivot(s) can be dropped on pivot image above R1.

	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13
R1		Total NATIVITY	Native	Foreign born									
R2	Total GEOG-101		?	?	?								
R3	Maui, Kalawao & Kauai Counties PUMA, Hawaii		?	?	?								
R4	Hawaii County PUMA, Hawaii		?	?	?								
R5	Honolulu County--Rural Oahu PUMA, Hawaii		?	?	?								
R6	Honolulu County--Koolauopoko PUMA, Hawaii		?	?	?								
R7	Honolulu County--East Honolulu to Kapahulu PUMA, Hawaii		?	?	?								
R8	Honolulu County--Tantalus to Waikiki PUMA, Hawaii		?	?	?								
R9	Honolulu County--Nuuanu to Kalihi PUMA, Hawaii		?	?	?								
R10	Honolulu County--Moanalua to Pearl City PUMA, Hawaii		?	?	?								
R11	Honolulu County--Central Oahu PUMA, Hawaii		?	?	?								
R12	Honolulu County--Ewa PUMA, Hawaii		?	?	?								
R13													
R14													
R15													
R16													
R17													
R18													
R19													
R20													
R21													

NATIVITY Nativity
 YOEPE Year of entry
 GEOG-101 Public Use Microdata Area (PUMA)
 RECODE1 Year of Entry Recode

Nest the "Year of Entry Recode" variable on the columns by dropping onto any of the nativity Labels

Pivot(s) can be dropped on pivot image above R1.

	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14
		Total NATIVITY		Native		Foreign born								
R1		Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later							
R2	Total GEOG-101	?	?	?	?	?	?	?	?	?	?	?	?	?
R3	Maui, Kalawao & Kauai Counties	?	?	?	?	?	?	?	?	?	?	?	?	?
R4	Hawaii County	?	?	?	?	?	?	?	?	?	?	?	?	?
R5	Honolulu County--Rural Oahu	?	?	?	?	?	?	?	?	?	?	?	?	?
R6	Honolulu County--Koolauopoko	?	?	?	?	?	?	?	?	?	?	?	?	?
R7	Honolulu County--East Honolulu to Kapahulu	?	?	?	?	?	?	?	?	?	?	?	?	?
R8	Honolulu County--Tantalus to Waikiki	?	?	?	?	?	?	?	?	?	?	?	?	?
R9	Honolulu County--Nuuanu to Kalihi	?	?	?	?	?	?	?	?	?	?	?	?	?
R10	Honolulu County--Moanalua to Pearl City	?	?	?	?	?	?	?	?	?	?	?	?	?
R11	Honolulu County--Central Oahu	?	?	?	?	?	?	?	?	?	?	?	?	?
R12	Honolulu County--Ewa	?	?	?	?	?	?	?	?	?	?	?	?	?
R13														
R14														
R15														
R16														

NATIVITY Nativity
 YOEPE Year of entry
 GEOG-101 Public Use Microdata Area (PUMA)
 RECODE1 Year of Entry Recode

Click "GO Get Data"

File Edit Format View Options Help

GO Get Data

Col C10 NATIVITY=2, RECODE1=2

Pivot(s) can be dropped on pivot image above R1.

C1	Total NATIVITY		Native		Foreign born		
	Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later	
R2	Total GEOG-101	?	?	?	?	?	?
R3	Maui, Kalawao & Kauai Counties PUMA, Hawaii	?	?	?	?	?	?
R4	Hawaii County PUMA, Hawaii	?	?	?	?	?	?
R5	Honolulu County--Rural Oahu PUMA, Hawaii	?	?	?	?	?	?
R6	Honolulu County--Koolauopoko PUMA, Hawaii	?	?	?	?	?	?
R7	Honolulu County--East Honolulu to Kapahulu PUMA, Hawaii	?	?	?	?	?	?
R8	Honolulu County--Tantalus to Waikiki PUMA, Hawaii	?	?	?	?	?	?
R9	Honolulu County--Nuuanu to Kalihi PUMA, Hawaii	?	?	?	?	?	?
R10	Honolulu County--Moanalua to Pearl City PUMA, Hawaii	?	?	?	?	?	?
R11	Honolulu County--Central Oahu PUMA, Hawaii	?	?	?	?	?	?
R12	Honolulu County--Ewa PUMA, Hawaii	?	?	?	?	?	?
R13							
R14							
R15							
R16							
R17							
R18							

NATIVITY Nativity
 YOEP Year of entry
 GEOG-101 Public Use Microdata Area (PUMA)
 RECODE1 Year of Entry Recode

File Edit Format View Options Help

GO Get Data

Col C10 NATIVITY=2, RECODE1=2

Pivot(s) can be dropped on pivot image above R1.

C1	Total NATIVITY		Native		Foreign born					
	Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later				
R2	Total GEOG-101	292,170	183,330	108,840	51,307	32,247	19,060	240,863	151,083	89,780
R3	Maui, Kalawao & Kauai Counties PUMA, Hawaii	50,647	31,809	18,838	4,639	2,914	1,725	46,008	28,895	17,113
R4	Hawaii County PUMA, Hawaii	21,480	12,063	9,397	5,884	2,850	3,034	15,576	9,213	6,363
R5	Honolulu County--Rural Oahu PUMA, Hawaii	11,088	5,692	5,396	2,772	1,169	1,603	8,316	4,523	3,793
R6	Honolulu County--Koolauopoko PUMA, Hawaii	10,640	8,140	2,500	2,873	1,773	1,100	7,767	6,367	1,400
R7	Honolulu County--East Honolulu to Kapahulu PUMA, Hawaii	19,797	13,711	6,086	5,433	3,400	2,033	14,364	10,311	4,053
R8	Honolulu County--Tantalus to Waikiki PUMA, Hawaii	41,222	22,972	18,250	4,740	3,204	1,536	36,482	19,768	16,714
R9	Honolulu County--Nuuanu to Kalihi PUMA, Hawaii	42,581	23,960	18,621	6,097	4,068	2,029	36,484	19,892	16,592
R10	Honolulu County--Moanalua to Pearl City PUMA, Hawaii	25,737	17,061	8,676	5,581	3,704	1,877	20,156	13,357	6,799
R11	Honolulu County--Central Oahu PUMA, Hawaii	40,955	27,295	13,860	7,052	4,416	2,636	33,903	22,879	11,024
R12	Honolulu County--Ewa PUMA, Hawaii	28,043	20,627	7,416	6,236	4,749	1,487	21,807	15,878	5,929
R13										
R14										
R15										
R16										
R17										
R18										

NATIVITY Nativity
 YOEP Year of entry
 GEOG-101 Public Use Microdata
 RECODE1 Year of Entry Recode

We will now calculate the percentage of foreign born 2000 or later
To Create a Formula: Click in the Gray column header of the next empty column - C11
This will activate the formula box
Select COMP ()

COMP	GEOG-101	Total NATIVITY		Native		Foreign born		C11		
		Before 2000	2000 or Later	Before 2000	2000 or Later	Before 2000	2000 or Later			
MEAN	GEOG-101	292,170	183,330	108,840	51,307	32,247	19,060	240,863	151,083	89,780
MEDIAN	Kalawao & Kauai Counties PUMA, Hawaii	50,647	31,809	18,838	4,639	2,914	1,725	46,008	28,895	17,113
RANK	Mai County PUMA, Hawaii	21,460	12,063	9,397	5,884	2,850	3,034	15,576	9,213	6,363
SQRT	Honolulu County-Rural Oahu PUMA, Hawaii	11,088	5,692	5,396	2,772	1,169	1,603	8,316	4,523	3,793
SUM	Honolulu County-Koolaupoko PUMA, Hawaii	10,640	8,140	2,500	2,873	1,773	1,100	7,767	6,367	1,400
R6	Honolulu County-East Honolulu to Kapaehulu PUMA, Hawaii	19,797	13,711	6,086	5,433	3,400	2,033	14,364	10,311	4,053
R7	Honolulu County-Tantalus to Waikiki PUMA, Hawaii	41,222	22,972	18,250	4,740	3,204	1,536	36,482	19,768	16,714
R8	Honolulu County-Nuuanu to Kailhi PUMA, Hawaii	42,581	23,960	18,621	6,097	4,068	2,029	36,484	19,892	16,592
R9	Honolulu County-Moanalua to Pearl City PUMA, Hawaii	25,737	17,061	8,676	5,581	3,704	1,877	20,156	13,357	6,799
R10	Honolulu County-Central Oahu PUMA, Hawaii	40,955	27,295	13,660	7,052	4,416	2,636	33,903	22,879	11,024
R11	Honolulu County-Ewa PUMA, Hawaii	28,043	20,627	7,416	6,236	4,749	1,487	21,807	15,878	5,929
R12										
R13										
R14										
R15										
R16										
R17										
R18										
R19										
R20										
R21										
R22										
R23										

Enter Formula: $c10/c8*100$
Hit the Enter key or GO Get Data'

COMP	GEOG-101	Total NATIVITY		Native		Foreign born		C11		
		Before 2000	2000 or Later	Before 2000	2000 or Later	Before 2000	2000 or Later			
R1	Total GEOG-101	292,170	183,330	108,840	51,307	32,247	19,060	240,863	151,083	89,780
R2	Maui, Kalawao & Kauai Counties PUMA, Hawaii	50,647	31,809	18,838	4,639	2,914	1,725	46,008	28,895	17,113
R3	Hawaii County PUMA, Hawaii	21,460	12,063	9,397	5,884	2,850	3,034	15,576	9,213	6,363
R4	Honolulu County-Rural Oahu PUMA, Hawaii	11,088	5,692	5,396	2,772	1,169	1,603	8,316	4,523	3,793
R5	Honolulu County-Koolaupoko PUMA, Hawaii	10,640	8,140	2,500	2,873	1,773	1,100	7,767	6,367	1,400
R6	Honolulu County-East Honolulu to Kapaehulu PUMA, Hawaii	19,797	13,711	6,086	5,433	3,400	2,033	14,364	10,311	4,053
R7	Honolulu County-Tantalus to Waikiki PUMA, Hawaii	41,222	22,972	18,250	4,740	3,204	1,536	36,482	19,768	16,714
R8	Honolulu County-Nuuanu to Kailhi PUMA, Hawaii	42,581	23,960	18,621	6,097	4,068	2,029	36,484	19,892	16,592
R9	Honolulu County-Moanalua to Pearl City PUMA, Hawaii	25,737	17,061	8,676	5,581	3,704	1,877	20,156	13,357	6,799
R10	Honolulu County-Central Oahu PUMA, Hawaii	40,955	27,295	13,660	7,052	4,416	2,636	33,903	22,879	11,024
R11	Honolulu County-Ewa PUMA, Hawaii	28,043	20,627	7,416	6,236	4,749	1,487	21,807	15,878	5,929
R12										
R13										
R14										
R15										
R16										
R17										

Percentage Calculated

File Edit Format View Options Help

GO Get Data

COMP0 (C1R29)

Pivot(s) can be dropped on pivot image above R1.

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C
	Total NATIVITY			Native		Foreign born					
	Total	Before 2000	2000 or Later	Total	Before 2000	2000 or Later	Total	Before 2000	2000 or Later		
R1											
R2	Total GEOG-101	292,170	183,330	108,840	51,307	32,247	19,060	240,863	151,083	89,780	37
R3	Maui, Kalawao & Kauai Counties PUMA, Hawaii	50,647	31,809	18,838	4,639	2,914	1,725	46,008	28,895	17,113	37
R4	Hawaii County PUMA, Hawaii	21,460	12,063	9,397	5,884	2,850	3,034	15,576	9,213	6,363	41
R5	Honolulu County--Rural Oahu PUMA, Hawaii	11,088	5,692	5,396	2,772	1,169	1,603	8,316	4,523	3,793	46
R6	Honolulu County--Koolauapoko PUMA, Hawaii	10,640	8,140	2,500	2,873	1,773	1,100	7,767	6,367	1,400	18
R7	Honolulu County--East Honolulu to Kapahulu PUMA, Hawaii	19,797	13,711	6,086	5,433	3,400	2,033	14,364	10,311	4,053	28
R8	Honolulu County--Tantalus to Waikiki PUMA, Hawaii	41,222	22,972	18,250	4,740	3,204	1,536	36,482	19,768	16,714	46
R9	Honolulu County--Nuuanu to Kalihi PUMA, Hawaii	42,581	23,960	18,621	6,097	4,068	2,029	36,484	19,892	16,592	45
R10	Honolulu County--Moanalua to Pearl City PUMA, Hawaii	25,737	17,061	8,676	5,581	3,704	1,877	20,156	13,357	6,799	34
R11	Honolulu County--Central Oahu PUMA, Hawaii	40,955	27,295	13,660	7,052	4,416	2,636	33,903	22,879	11,024	33
R12	Honolulu County--Ewa PUMA, Hawaii	28,043	20,627	7,416	6,236	4,749	1,487	21,807	15,878	5,929	27
R13											
R14											
R15											
R16											
R17											
R18											
R19											
R20											
R21											
R22											

Click in the R1C11 cell to enter heading '% Entered Since 2000'

File Edit Format View Options Help

GO Get Data

LABELS() Col C10 NATIVITY=2, RECODE1=2

Pivot(s) can be dropped on pivot image above R1.

C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C	
	Total NATIVITY			Native		Foreign born					
	Total	Before 2000	2000 or Later	Total	Before 2000	2000 or Later	Total	Before 2000	2000 or Later	% Entered	
R1											
R2	GEOG-101	292,170	183,330	108,840	51,307	32,247	19,060	240,863	151,083	89,780	37.3
R3	Kalawao & Kauai Counties PUMA, Hawaii	50,647	31,809	18,838	4,639	2,914	1,725	46,008	28,895	17,113	37.2
R4	Hawaii County PUMA, Hawaii	21,460	12,063	9,397	5,884	2,850	3,034	15,576	9,213	6,363	40.9
R5	Honolulu County--Rural Oahu PUMA, Hawaii	11,088	5,692	5,396	2,772	1,169	1,603	8,316	4,523	3,793	45.6
R6	Honolulu County--Koolauapoko PUMA, Hawaii	10,640	8,140	2,500	2,873	1,773	1,100	7,767	6,367	1,400	18.0
R7	Honolulu County--East Honolulu to Kapahulu PUMA, Hawaii	19,797	13,711	6,086	5,433	3,400	2,033	14,364	10,311	4,053	28.2
R8	Honolulu County--Tantalus to Waikiki PUMA, Hawaii	41,222	22,972	18,250	4,740	3,204	1,536	36,482	19,768	16,714	45.8
R9	Honolulu County--Nuuanu to Kalihi PUMA, Hawaii	42,581	23,960	18,621	6,097	4,068	2,029	36,484	19,892	16,592	45.5
R10	Honolulu County--Moanalua to Pearl City PUMA, Hawaii	25,737	17,061	8,676	5,581	3,704	1,877	20,156	13,357	6,799	33.7
R11	Honolulu County--Central Oahu PUMA, Hawaii	40,955	27,295	13,660	7,052	4,416	2,636	33,903	22,879	11,024	32.5
R12	Honolulu County--Ewa PUMA, Hawaii	28,043	20,627	7,416	6,236	4,749	1,487	21,807	15,878	5,929	27.2
R13											
R14											
R15											
R16											
R17											
R18											

From File, Click 'Save As'

	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
	Total NATIVITY		Native		Foreign born						
	Total	Before 2000	2000 or Later	Total	Before 2000	2000 or Later	Total	Before 2000	2000 or Later	% Entered	
Counties PUMA, Hawaii	292,170	183,330	108,840	51,307	32,247	19,060	240,863	151,083	89,780	37.3	
Maui PUMA, Hawaii	50,647	31,809	18,838	4,639	2,914	1,725	46,008	28,895	17,113	37.2	
Honolulu PUMA, Hawaii	21,460	12,063	9,397	5,884	2,850	3,034	15,576	9,213	6,363	40.9	
Hawaii PUMA, Hawaii	11,088	5,692	5,396	2,772	1,169	1,603	8,316	4,523	3,793	45.6	
Wahaiho PUMA, Hawaii	10,640	8,140	2,500	2,873	1,773	1,100	7,767	6,367	1,400	18.0	
Honolulu to Kapahulu PUMA, Hawaii	19,797	13,711	6,086	5,433	3,400	2,033	14,364	10,311	4,053	28.2	
Waikiki PUMA, Hawaii	41,222	22,972	18,250	4,740	3,204	1,536	36,482	19,768	16,714	45.8	
East Honolulu PUMA, Hawaii	42,581	23,960	18,621	6,097	4,068	2,029	36,484	19,892	16,592	45.5	
Pearl City PUMA, Hawaii	25,737	17,061	8,676	5,581	3,704	1,877	20,156	13,357	6,799	33.7	
Honolulu PUMA, Hawaii	40,955	27,295	13,660	7,052	4,416	2,636	33,903	22,879	11,024	32.5	
Honolulu PUMA, Hawaii	28,043	20,627	7,416	6,236	4,749	1,487	21,807	15,878	5,929	27.2	

Name the table 'Foreign Born Hawaii PUMAs' Save as File Type: Ferrett Tabulation File OR File type: Text Documents – Comma Delimited

Review your selection

Save in: FerrettTabulationFiles

File name: ACS Foreign Born Hawaii PUMAs

Files of type: Ferrett Tabulation Files

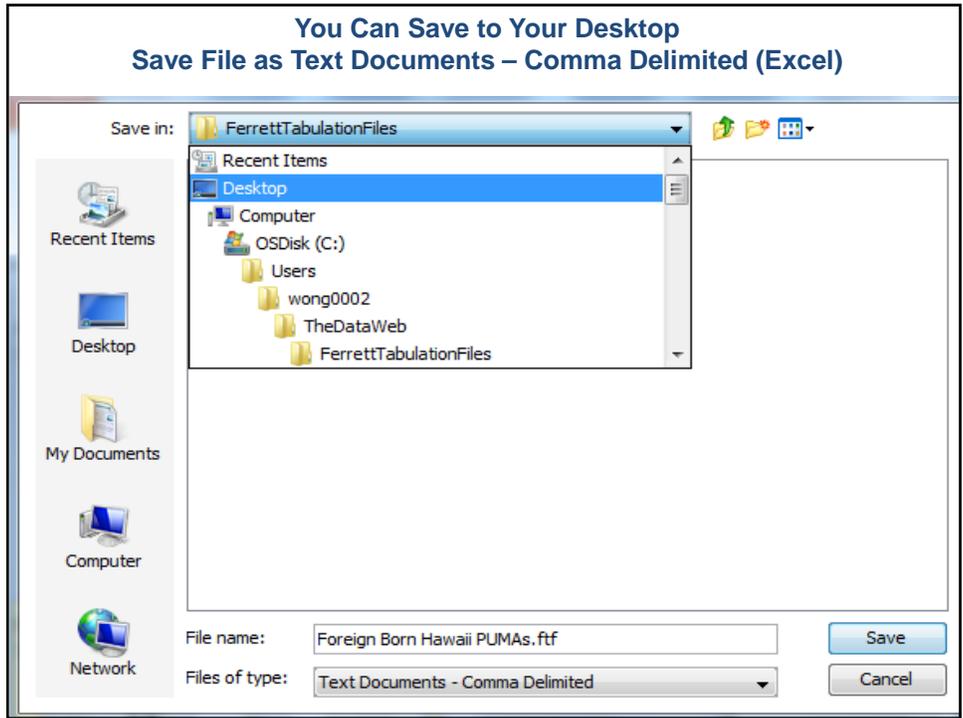
Act on your Query:

- Recode Variable
- Delete Variable(s)
- View/Modify Variable(s)
- Advanced Sql Option
- Change Longitudinal Period
- Add TimeSeries Time

Save in: FerrettTabulationFiles

File name: Foreign Born Hawaii PUMAs.fif

Files of type: Text Documents - Comma Delimited



Foreign Born Hawaii PUMAS

The screenshot shows an Excel spreadsheet with the following data:

		Total NATIVITY		Native		Foreign born		
		Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later	Ente
R1	Total GEOG-101	292,170	183,330	108,840	51,307	32,247	19,060	240,863
R3	Maui, Kalawao & Kauai Counties PUMA, Hawaii	50,647	31,809	18,838	4,639	2,914	1,725	46,008
R4	Hawaii County PUMA, Hawaii	21,460	12,063	9,397	5,884	2,850	3,034	15,576
R5	Honolulu County--Rural Oahu PUMA, Hawaii	11,088	5,692	5,396	2,772	1,169	1,603	8,316
R6	Honolulu County--Koolauapoko PUMA, Hawaii	10,640	8,140	2,500	2,873	1,773	1,100	7,767
R7	Honolulu County--East Honolulu to Kapahulu PUMA, Hawaii	19,797	13,711	6,086	5,433	3,400	2,033	14,364
R8	Honolulu County--Tantalus to Waikiki PUMA, Hawaii	41,222	22,972	18,250	4,740	3,204	1,536	36,482
R9	Honolulu County--Nuuanu to Kalihi PUMA, Hawaii	42,581	23,960	18,621	6,097	4,068	2,029	36,484
R10	Honolulu County--Moanalua to Pearl City PUMA, Hawaii	25,737	17,061	8,676	5,581	3,704	1,877	20,156
R11	Honolulu County--Central Oahu PUMA, Hawaii	40,955	27,295	13,660	7,052	4,416	2,636	33,903
R12	Honolulu County--Ewa PUMA, Hawaii	28,043	20,627	7,416	6,236	4,749	1,487	21,807
R13								
R14								
R15								
R16								

Questions



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Resources: Need Assistance?

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