

ACS Public Use Microdata Samples

DataFerrett

Hawaii

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U.S. Department of Commerce
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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

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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,REL,AGEP,SEX,RAC1P,MAR,PINCP,POBP
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



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5

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	000008000
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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6

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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

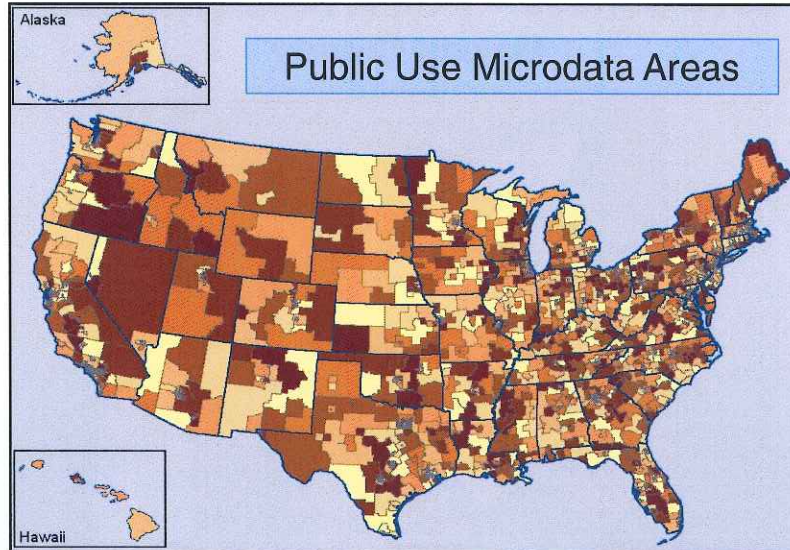
- Summary data vs. Microdata
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Limited Geographic Detail

- 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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You are here: [Census.gov](#) > [Geography](#) > [Maps & Data](#) > 2010 Census Public Use Microdata Area (PUMA) Reference Maps - Hawaii

Geography

Main | About | Maps & Data | Reference | Partnerships | Education | Research

Maps & Data

[Maps & Data Main Page](#)

Maps

- Census Data Mapper
- Reference
- Thematic
- Maps Available for Purchase

Data

- TIGER Products
- Census Geocoder
- Partnership Shapefiles
- Relationship Files
- Gazetteer Files
- Block Assignment Files
- Name Lookup Tables
- Talies
- LandView

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

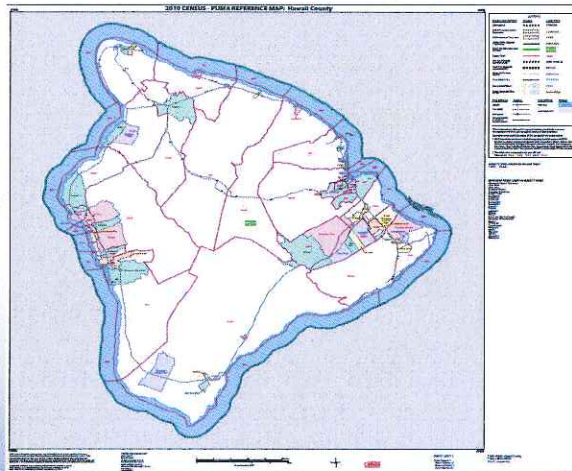
The total number of map sheets is listed next to each entity name. In instances where there is only one map sheet for a given entity, the map link will open the PDF map file directly through your web browser. In instances where an entity consists of more than one map sheet, the link opens to a directory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

Code	Name	Total Map Sheets
15 00100	MauI, Kalavao & Kauai Counties PUMA	2
15 00200	Hawaii County PUMA	1
15 00501	Honolulu County--Gural Oahu PUMA	11
15 00302	Honolulu County--Keolaupoko 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 Kalia PUMA	1
15 00306	Honolulu County--Muanalua 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	?

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22

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



The screenshot shows the directory listing for the Census Bureau FTP Site. The header includes the U.S. Department of Commerce logo and navigation links for People, Business, Geography, Data, and Research. The table below lists files with columns for Name, Last modified, Size, and Description.

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 has.zip	15-Oct-2012 16:12	5.2M	
csv hca.zip	15-Oct-2012 16:13	28M	
csv hcc.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 hha.zip	15-Oct-2012 16:13	1.1M	
csv hie.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	

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

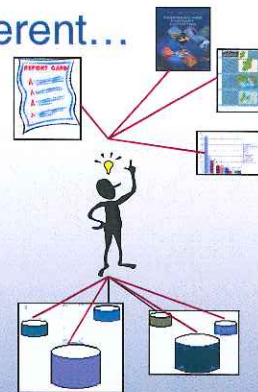
The Census Bureau's Breakthrough Technologies

- **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

	C1	C2	C3	C4	C5	C6	C7
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	69	7,199			
R9	Two or more major race groups	681	265	416			

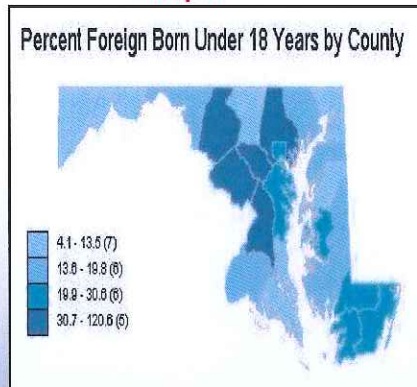
GCR Responsible for grandchildren
 GEOG-101 FIPS State Code
 RAC1P Race1 recode
 HISP Hispanic recode
 RECODE1 Race Recode
 RECODE2 Hispanic - Not Hispanic

Universe: (GCR in (1)) AND ((ST
 Weight used: PWGTP
 DataSet(s) selected: 2005

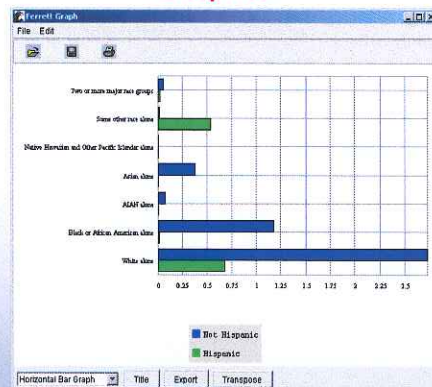
Data Visualization

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

	CS	CS	CS	CS	CS	CS	CS
	Male	Female	Male	Female	Male	Female	
Total - Education - In Labor Force	38,483,371	38,418,773	11,139,004	10,878,173	1,700,374	1,779,203	
Less Than 1st Grade	212,245	191,948	119,899	102,784	20,517	14,974	
1st-2nd-3rd Or 4th Grade	429,118	235,942	134,923	107,328	42,187	43,527	
5th-6th Grade	1,371,138	633,538	1,214,639	563,517	109,271	72,414	
7th-8th Grade	1,348,148	719,782	1,197,723	627,991	134,444	102,871	
9th Grade	1,381,641	1,115,728	1,014,079	814,928	210,644	198,797	
10th Grade	2,188,519	1,617,744	1,481,499	1,178,266	287,072	238,764	
11th Grade	2,844,945	2,104,447	2,074,261	1,576,759	788,014	701,010	
12th Grade No Diploma	1,861,627	771,482	1,047,693	703,622	116,037	66,882	
High School Grad Diploma Or Equivalent	23,189,872	23,081,881	9,482,201	9,312,679	1,870,621	1,268,271	
Some College And Degree	34,583,013	34,251,633	14,633,021	14,222,191	1,011,001	728,475	
Associate Degree Occupational Specialist	3,271,443	3,049,181	1,377,009	1,255,721	138,438	102,542	
Associate Degree Academic Program	2,628,552	2,221,178	2,252,470	2,116,528	124,001	108,642	
Bachelor's Degree (Includes Subj)	34,645,023	34,021,814	14,662,212	14,259,912	1,417,437	1,025,992	
Government - Federal	428,642	389,178	411,228	382,358	11,383	5,802	
Government - State	628,556	602,583	612,702	519,958	3,857	7,022	
Government - Local	2,016,246	1,897,165	1,826,209	1,529,729	12,007	26,448	
Private, For Profit	8,646,227	7,241,788	5,263,887	4,225,822	236,342	218,918	
Private, Not Profit	673,879	1,661,438	667,287	1,519,131	13,082	38,136	
Self Employed, Incorporated	1,071,038	262,242	1,021,929	262,164	13,862	4,175	
Self Employed, Unincorporated	1,488,473	732,253	1,281,883	718,038	20,991	18,216	
Unpaid Fam	0	0	0	0	0	0	
Phantom Employees (PHE) (Maj, Min, PHE)	0	0	0	0	0	0	
Professors School Instructors (PSE, DGS, PHE)	1,126,478	781,568	1,041,645	742,321	24,882	23,254	

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

The screenshot shows the homepage of the U.S. Census Bureau website. At the top, the URL **www.census.gov** is displayed in red. Below it, the U.S. Department of Commerce logo and navigation links (Blogs, Index A-Z, Glossary, FAQs) are visible. A search bar is located on the right. The main navigation menu includes Topics, Geography, Library, Data, and About the Bureau. A 'Newroom' section features a line graph and a text box titled 'Access data with tools and more'. Below this are three main content boxes: 'Population Clock' showing U.S. and World population figures, 'QuickFacts' with a state selection dropdown, and 'U.S. Census Bureau Economic Indicators' listing various reports like 'Advance Report Durable Goods' and 'New Residential Sales'. At the bottom, there are sections for 'Latest News' (Race Reporting Among Hispanics: 2010) and 'Stat of the Day' (Population Estimates).

Data Select Data Tools and Apps

U.S. Department of Commerce | Blogs | Index A-Z | Glossary | FAQs



Search

Topics
Population, Economy
Geography
Maps, Data, Resources
Library
Infographics, Publications
Data
Tools, Developers
About the Bureau
Research, Surveys

Data

Access data through products and tools including data visualizations, mobile apps, interactive web apps and other software.

Data Tools and Apps

- Developers
- Mobile Apps
- Product Catalog
- Related Sites
- Software
- Training & Workshops
- Visualizations

Tools and more

Find out more about census.gov, find out data tools, software, and many interactive tools highlighting trends throughout the

Population Clock

U.S. Population
317,784,302

World Population
7,156,589,575

Mar 21, 2014 12:04 UTC (+7)

QuickFacts

Quick, easy access to facts about people, business, and geography.

Select a state to begin

U.S. Census Bureau Economic Indicators

Advances Report Durable Goods	\$229.4 B	New Orders	2.2%
March 2014 Report			
Released 9:30 AM EDT, 3/26/14			
New Residential Sales	440,000	Single-Family Homes	-3.3%
March 2014 Report			
Released 10:00 AM EDT, 3/25/14			
Quarterly Profits - Retailers*	\$28.1 B		

Latest News

Race Reporting Among Hispanics: 2010

March 26, 2014

This working paper shows how Hispanics reported their race on the 2010 Census questionnaire, with a unique emphasis on Hispanics who self-reported their


Stat of the Day

Population Estimates

Oil- and gas-rich areas in and near the Great Plains contained many of the fastest-growing areas in the U.S. last

Scroll Down Page

U.S. Department of Commerce | Blogs | Index A-Z | Glossary | FAQs



Search

Topics
Population, Economy
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Library
Infographics, Publications
Data
Tools, Developers
About the Bureau
Research, Surveys

Data

- Data Tools and Apps
- Mobile Apps
- Product Catalog
- Related Sites
- Software
- Training & Workshops
- Visualizations

Data Tools and Apps

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

The American FactFinder

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

QuickFacts

State and County QuickFacts provides frequently requested Census Bureau information at the national, state, county, and city level.

Census Explorer

Make new discoveries about your neighborhood through the power of American Community Survey statistics and the U.S. Census Bureau's new mapping tool.

Easy Stats

Quick and easy access to selected statistics collected by the U.S. Census Bureau through the American Community Survey.

My Congressional District

Access selected statistics about your Congressional district.

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.

<p>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.</p> <p>County Business & Demographics Map Use this interactive map to explore Census data through a mashup of population and economic data.</p> <p>Economic Database Search and Trend Charts Easy access to Economic Statistics using drop-down menus. Create tables in ASCII text and spreadsheet format. Display customizable dynamic charts.</p> <p>Glossary Simple definitions of key Census Bureau terms.</p> <p>Censtats Applications available include: Census Tract Street Locator, County Business Patterns, Zip Business Patterns, International Trade Data, and more.</p> <p>Online Mapping Tools Using TIGER and the American FactFinder</p> <p>US Gazetteer Place name, and ZIP code search engine.</p> <p>Business Dynamics Statistics This tool shows tabulations on establishments, firms, and employment with unique information on firm age and firm size.</p>	<h2 style="text-align: center;">Click on DataFerrett</h2> <div style="border: 2px solid red; padding: 5px;"> <p>DataFerrett A tool and data librarian that searches and retrieves data across federal, state and local surveys.</p> </div> <p>Community Economic Development HotReport DataFerrett's newest tool provides community and business leaders speedy access to information on counties and the WIRED areas across the U.S.</p> <p>Local Employment Dynamics This partnership offers a variety of data tools.</p> <p>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.</p> <p>Direct File Access: Census 2000 datasets Download datasets.</p> <p>Direct File Access: Census OUTGOING File Directory (HTTP) Pickup files from Census Employees.</p> <p>Access Tools at Other Sites: Integrated Public Use Microdata Series (IPUMS) [University of Minnesota]</p>
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Launch Data Ferrett

The screenshot shows the DataFerrett website interface. At the top, there is a navigation bar with links for 'People', 'Business', 'Geography', 'Data', 'Research', and 'Newsroom'. Below this is a search bar. The main content area is titled 'TheDataWeb' and features several sections:

- DataFerrett**: A section describing the tool as a data analysis and extraction tool. It includes a 'What you should check before getting started:' list with items like 'Java Installed', 'Allow Pop-ups', and 'Run in IE/Firefox'. A red arrow points to the 'Launch DataFerrett' button.
- Support**: A section with contact information, including a toll-free number (1-866-437-0171) and an email address (dsd.ferret@census.gov).
- betaDataFerrett**: A section titled 'Latest enhancements and features highlights' with bullet points and a 'Test out betaDataFerrett' button.
- In the News**: A section with a list of news items, including 'RELEASED: Public Libraries Survey 2011 data', 'October 2012 School Enrollment/Internet Use CPS Supplement', 'July 2013 Current Population Survey Basic', and 'November 2011 Civic Engagement CPS Supplement'.

At the bottom of the page, the text reads: 'Measuring America—People, Places, and Our Economy'.

CAUTION

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

The screenshot shows the DataFerret application launch page. A yellow caution box is overlaid on the page with the following text: "CAUTION Do Not: Navigate Away or Close This Window. Doing so will cause DataFerret to QUIT." A red arrow points to a progress bar labeled "DataFerret is loading...". The background page includes a navigation menu with "People", "Business", "Geography", "Data", "Research", and "Newsroom". A sidebar on the left contains "Home", "DataFerret", "What you should do", and "Support". The main content area has the title "DataFerret - Application Launch Page" and a description: "DataFerret - A unique data analysis and extraction tool." Below the progress bar, it says "If a log-in screen does not appear, click on [Help](#) for more information". At the bottom, there are links for "Test out DataFerret" and "Send feedback to dsd.ferret@census.gov".

Measuring America—People, Places, and Our Economy

Enter Your Email Address Click Ok


The screenshot shows the DataFerret login dialog box. The dialog box has a title bar "Ferret Login" and a background image of a ferret. It contains the following text: "DataFerret Browser to TheDataWeb", "Email address: jerry.b.wong@census.gov", and a checked checkbox for "public use data only". Below the checkbox, it says: "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." At the bottom, there are "Ok" and "Cancel" buttons. A red arrow points to the "Ok" button. The background of the dialog box shows a navigation menu with "Introduction", "Step 1: Select Dataset & Variable", and "Step 2: DataBasket/Download/Make A Table".

Get Data Now

File Edit View Options Special Help

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

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



DataFerrett

Browser to TheDataWeb

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

American Community Survey with PUMS, Other Datasets

File Edit View Options Special Help

Introduction Step1: Select Dataset & Variable Step2: Databooklet/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 total for each data item. For example, for review of individuals, microdata contains records for each individual interviewed; for surveys of organizations, the microdata contain records for each organization.

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
 - Description
 - 2011 View Variables
 - 2007
 - 2008
 - 2009
 - 2006
 - 2005
 - 2004
 - Puerto Rico Public Use Microdata Sample
 - Summaged Data
- 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 and Nutrition Examination Survey
- National Health Interview Survey
- National Hospital Ambulatory Medical Care Survey
- National Survey of Fishing, Hunting, and Wildlife Associated Recreation
- New York City Housing and Vacancy Survey
- Public Libraries Survey
- Small Area Health Insurance Estimates
- Small Area Income and Poverty Estimates
- Social Security Administration
- Survey of Income and Program Participation
- Survey of Business Dynamics

Highlight the variables you are interested in

0 Variables returned from search, 0 variables selected in Databooklet.

Please click the instruction image for [Instruction](#)

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.

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
 - 2011 Description
 - 2011 View Variables
 - 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
- Decennial Public Use Microdata Samples
- Home Mortgage Disclosure Act
- Mortality
- National Ambulatory Medical Care Survey
- National Health and Nutrition Examination Survey
- National Health Interview Survey
- National Hospital Ambulatory Medical Care Survey
- National Survey of Fishing, Hunting, and Wildlife Associated Recreation
- New York City Housing and Vacancy Survey
- Public Libraries Survey
- Small Area Health Insurance Estimates
- Small Area Income and Poverty Estimates
- Social Security Administration
- Survey of Income and Program Participation
- Survey of Program Dynamics

Select American Community Survey

Open PUMS to view years

Select 2012

Click View Variables (drop down)

Click Select All Topics and click Search Variables

The screenshot shows the 'Dataquest' application window. The 'Step1: Select Dataset & Variable' tab is active. On the left, the 'Public Use Microdata Sample' is selected for the year 2011. The 'View Variables' dropdown menu is open, and the 'Select All Topics' option is highlighted with a red arrow. Below the dropdown, the 'Search Variables' button is highlighted with a red box. On the right side of the interface, there are search filters for 'Labels', 'Names', 'Topics', 'Question Text', and 'Values'. The 'Topics' filter is currently selected. Below the filters, there is a search bar and a 'Search' button. The main content area shows '0 Variables returned from search. 0 variables selected in DataBasket.' and a list of topics with checkboxes: 'Housing', 'Selectable Geographies', 'Population', 'Replicate Weights', and 'Geographic Entities'. The 'Select All Topics' button is highlighted with a red arrow.

Check 'Select' ACS Nativity, Highlight next variable ACS YOEP

The screenshot shows the 'Browse/Select Variables & Values' window. The 'Your highlighted variables:' list contains 'ACS NATIVITY (2006 -) Nativity' and 'ACS YOEP (2012 -) Year of entry'. A red arrow points to 'ACS YOEP (2012 -) Year of entry'. Below this, the 'Select ALL Variables:' section has a red box around the checked 'Select ACS NATIVITY Nativity' option, with another red arrow pointing to it. The 'Nativity Variable Universe Description: ALL' section shows two categories: '1) Native' and '2) Foreign born', both with checked selection boxes. The right side of the window shows search filters and a list of variables, each with a 'Weight' column.

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

The screenshot shows the 'Browse/Select Variables & Values' window. The 'Your highlighted variables:' list contains 'ACS NATIVITY (2006 -) Nativity' and 'ACS YOEP (2012 -) Year of entry'. A green arrow points to 'ACS NATIVITY (2006 -) Nativity'. Below this, the 'Select ALL Variables:' section has a red box around the checked 'Select ACS YOEP Year of entry' option, with a red arrow pointing to it. The 'Year of entry' section has a note: 'Note: Changes were made to this variable between 2011 and 2012. See the applicable data dictionaries and code lists at: http://www.census.gov/acs/www/data_documentation/pums_documentation/'. Below the note is a list of year ranges with checkboxes. A red box highlights the '1920) Not eligible - Born in the US' option, with a red arrow pointing to it. The right side of the window shows search filters and a list of variables, each with a 'Weight' column.

You have added 2 variables for your DataBasket
Click OK

Browse/Select Variables & Values

Your highlighted variables:
 ACS NATIVITY (2006 -) Nativity
 ACS YOEY (2010 -) Year of entry

Select ALL Variables

Select ACS YOEY Year of entry

Year of entry
 Note: Changes were made to this variable between 2011 and 2012. See the applicable data dictionaries and code lists at http://www.census.gov/calewdata_documentation/pums_documentation/

- 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 U/A 1931
- 1932 1932 - 1934
- 1935 1935 - 1936
- 1937 1937 - 1938
- 1939 1939
- 1940 1940
- 1941 1941
- 1942 1942
- 1943 1943 - 1944
- 1945 1945

Information
 You have added 2 variables for your DataBasket.
 OK Cancel

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

DataBasket

File Edit View Options Special Help

Introduction Step1: Select Dataset & Variable Step2: DataBasket Download/Write & 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 words 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.

Select Dataset(s) to search

Search All Datasets

American Community Survey
 Annual Estimates - PUMs
 Five Year Estimates - PUMs
 Public Use Microdata Set

2011
 2010
 2009
 2008
 2007
 2006
 2005
 2004

Search All Datasets

365 Variables returned from search. 2 variables selected in DataBasket.

Topic	Name	Availability	Variable Label
Population	ESR	2006 -	current Employment status recode
Population	PER	2012 -	current Gene birth to child within the past 12 months
Housing	RES	2006 -	current Family type and employment status
Population	PHIN5C	2009 -	current Medicare coverage given through the eligibility coverage edit
Population	PHIN5C	2009 -	current Medicaid coverage given through the eligibility coverage edit
Population	PHIN5C	2009 -	current TRICARE coverage given through the eligibility coverage edit
Housing	FINCP	2008 -	current Family income (past 12 months)
Population	FOCOP	2010 -	current Recorded field of degree - first entry
Population	FOCOP	2010 -	current Recorded field of degree - second entry
Housing	PHARC	2006 -	current Presence, age of related children
Housing	PS	2008 -	current Yearly food stamp/Supplemental Nutrition Assistance Program recency
Housing	FULP	2006 -	current Fuel cost (yearly cost for fuels other than gas and electricity)
Housing	GASP	2006 -	current Gas (monthly cost)
Population	GSL	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	GRNTP	2006 -	current Gross rent as a percentage of household income past 12 months
Searchable geography	USGSPY	2006 -	current Census spec. IT use
Housing	HFL	2006 -	current Type of fuel
Housing	HHL	2006 -	current Household language
Housing	HHT	2006 -	current Household type
Population	HICOV	2008 -	current Health insurance coverage recode

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

Browse/Select Geographies

Instructions: Select the type geography from left list. Once selected, either double click or select the hierarchy and click the 'Use Hierarchy' button to navigate that hierarchy.

Types of geography available: Public Use Microdata Areas

Region: Select PUMA

State: Select PUMA

Hierarchies: Public use microdata area code (PUMA) based on 2010 Census

Selected Geographic Areas:

Search Use Hierarchy 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	FODIP	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	FLKP	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	GRNTP	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

Instructions: Drag geographies to drop into the right list. Drag final selections to the 'Selected Geographic Areas' list. Clicking a link at the top will drop directly into that level of the hierarchy.

Home >> State of current residence >> Public use microdata area code (PUMA) based on 2010 Census definition

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.: Clear All Delete Selection 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	FODIP	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

Home >> State of current residence >> Public use microdata area code (PUMA) based on 2010 Census definition

Select All

- Maui, Kalawao & Kauai Counties
- Hawaii County
- Honolulu County--Rural Oahu
- Honolulu County--Koolauloalo
- Honolulu County--East Honolulu to Kapahulu
- Honolulu County--Tantalus to Waikiki
- Honolulu County--Moanaloa to Kalihi
- Honolulu County--Moanalua to Pearl City
- Honolulu County--Central Oahu

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

Selected Geographic Areas: 10 Public use microdata area code (PUMA) based on 2010 Census definition(s) added.

Public Use Microdata Area (PUMA) Count: 10

- Maui, Kalawao & Kauai Counties
- Hawaii County
- Honolulu County--Rural Oahu
- Honolulu County--Koolauloalo
- Honolulu County--East Honolulu to Kapahulu
- Honolulu County--Tantalus to Waikiki
- Honolulu County--Moanaloa to Kalihi
- Honolulu County--Moanalua to Pearl City
- Honolulu County--Central Oahu
- Honolulu County--Ewa

Search Previous Level Next Level Cancel Delete Selection Clear All Finish

Year	Topic	Name	Availability	Variable Label
2009	Population	PHNS5C	2009 - current Medicare coverage given through the eligibility coverage edit	
2009	Population	PHNS4C	2009 - current Medicaid coverage given through the eligibility coverage edit	
2009	Population	PHNS3C	2009 - current TRICARE coverage given through the eligibility coverage edit	
2008	Housing	FINCP	2008 - current Family Income (past 12 months)	
2010	Population	FOD1P	2010 - current Recorded field of degree - first entry	
2010	Population	FOD2P	2010 - current Recorded field of degree - second entry	
2006	Housing	FPARC	2006 - current Presence, age of related children	
2008	Housing	FS	2008 - current Yearly food stamp/Supplemental Nutrition Assistance Program reciprocity	
2006	Housing	FULP	2006 - current Fuel cost (yearly cost for fuels other than gas and electricity)	
2006	Housing	GASP	2006 - current Gas (monthly cost)	
2006	Population	GCL	2006 - current Grandparents living with grandchildren	
2006	Population	GCM	2006 - current Length of time responsible for grandchildren	
2008	Population	GCR	2008 - current Grandparents responsible for grandchildren	
2006	Housing	GRNTP	2006 - current Gross rent (monthly amount)	
2006	Housing	GRPIP	2006 - current Gross rent as a percentage of household income past 12 months	
2006	Selectable Geographies	Geography 5006	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

Introduction Step1: Select Dataset & Variable Step2: 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

match ANY word match ALL words Search

366 Variables returned from search. 3 variables selected in DataBasket.

Topic	Name	Availability	Variable Label
Population	ESR	2006 -	current Employment status recode
Population	FER	2012 -	current Gave birth to child within the past 12 months
Housing	FES	2006 -	current Family type and employment status
Population	PHNS5C	2009 -	current Medicare coverage given through the eligibility coverage edit
Population	PHNS4C	2009 -	current Medicaid 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	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)

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

The screenshot shows the DataFerrett application window. At the top, there are navigation tabs for 'Introduction', 'Step 1. Select Dataset & Variable', and 'Step 2. Dataset/Download/Make A Table'. Below these is a central area with icons for 'Download', 'Make A Table', and 'Info'. A message reads: 'Review your variables then go back to select more variables or go on to get data'. Below this is a table of 'Current Query Variables from ACS (Public Use Microdata Sample)'. A red arrow points to the 'YOEP' row. On the right side, a vertical menu titled 'Act on Your Query:' contains several options, with 'Recode Variable' highlighted by a red box.

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

The screenshot shows the 'Recode/Regroup Variables' dialog box. The title bar reads 'Ferrett Microdata Recode1'. The main area is titled 'Recode/Regroup Variables' and contains a 'Tell me about' button. Below this, it says 'Recode1 is label for the Variable Recode of YOEP'. There are two tables: 'Highlight the value(s) to recode/regroup' and 'Label Values'. The 'Label Values' table has a 'Label' column with 'Not Elsewhere Classified (rec.)' and a 'Values' column with '(1921, 1922, 1924, 1926, 1928, 1930, 1932)'. At the bottom, there are 'OK' and 'Cancel' buttons.

Value	Description
1921	1921 or earlier (Bottom-coded)
1922	1922 - 1923
1924	1924 - 1925
1926	1926 - 1927
1928	1928 - 1929
1930	1930 & 1/2 1931
1932	1932 - 1934
1936	1936 - 1938
1937	1937 - 1938
1940	1940

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

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

of Entry Recode is label for the Variable Recode of YCEP

Value	Description
1921	1921
1922	1922
1924	1924
1926	1926
1928	1928
1930	1930
1932	1932
1999	1999
2000	2000

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

Set to value 1 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

of Entry Recode is label for the Variable Recode of YCEP

Value	Description
1997	1997
1998	1998
1999	1999
2000	2000
2001	2001
2002	2002
2003	2003
2004	2004
2005	2005
2006	2006

Label	Values
1 RecodeValue_1	(1921, 1922, 1924, 1926, 1928, 1930, 1932)
2 Not Elsewhere Classified (rec.)	(2000, 2001, 2002, 2003, 2004, 2005, 2006)

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: 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
1		Before 2000	{1921, 1922, 1924, 1926, 1928, 1930, 1932}
2		Not Elsewhere Classified (rec.)	{2000, 2001, 2002, 2003, 2004, 2005, 2006}

Set to value: 2 Recode

Act on Your Query:

- Recode Variable
- Delete Variable(s)
- Rename/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
1		Before 2000	{1921, 1922, 1924, 1926, 1928, 1930, 1932}
2		2000 or Later	{2000, 2001, 2002, 2003, 2004, 2005, 2006}

Set to value: 2 Recode

Ok Cancel

Act on Your Query:

- Recode Variable
- Delete Variable(s)
- Rename/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

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

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

Ferret: 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

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

You Will Now Make A Nested Table Using the Variables

The screenshot shows the Ferrett Tabulation software interface. The window title is "Ferrett Tabulation". The menu bar includes "File", "Edit", "Format", "View", "Options", and "Help". The toolbar contains various icons for data manipulation. The Formula Bar is empty. The Pivot(s) area shows "Pivot(s) can be dropped on pivot image above R1.". The grid has columns labeled C1 through C17 and rows labeled R1 through R18. On the right, a list of variables is shown, with a red box highlighting the following items:

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

Drag the Geog-101 PUMA to R2,C1

The screenshot shows the same Ferrett Tabulation software interface. The window title is "Ferrett Tabulation". The menu bar includes "File", "Edit", "Format", "View", "Options", and "Help". The toolbar contains various icons for data manipulation. The Formula Bar is empty. The Pivot(s) area shows "Pivot(s) can be dropped on pivot image above R1.". The grid has columns labeled C1 through C17 and rows labeled R1 through R18. On the right, a list of variables is shown. A red arrow points from the variable "GEOG-101 Public Use Microdata Area (PUMA)" in the list to cell R2,C1 in the grid. The cell R2,C1 now contains the text "Total GEOG-101".

	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17
R1																	
R2	Total GEOG-101	?															
R3	Maui, Kalawao & Kauai Counties	?															
R4	Hawaii County	?															
R5	Honolulu County--Rural Oahu	?															
R6	Honolulu County--Koolahaipo	?															
R7	Honolulu County--East Honolulu to Kapahulu	?															
R8	Honolulu County--Tantalua to Waikiki	?															
R9	Honolulu County--Nuuanu to Kalia	?															
R10	Honolulu County--Moanalua to Pearl City	?															
R11	Honolulu County--Central Oahu	?															
R12	Honolulu County--Ewa	?															
R13																	
R14																	
R15																	
R16																	
R17																	
R18																	

Drag Nativity variable to R1,C2

Col C2=SUM(C3,C4)
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
R1		Total	Nativity	Foreign born												
R2		Total GEOG-101	?	?	?											
R3		Maui, Kaulaao & Kauai Counties	?	?	?											
R4		Hawaii County	?	?	?											
R5		Honolulu County--Rural Oahu	?	?	?											
R6		Honolulu County--Koolauupoko	?	?	?											
R7		Honolulu County--East Honolulu to Kapahulu	?	?	?											
R8		Honolulu County--Tantalus to Waialiki	?	?	?											
R9		Honolulu County--Nanua to Kalia	?	?	?											
R10		Honolulu County--Moanalua to Pearl City	?	?	?											
R11		Honolulu County--Central Oahu	?	?	?											
R12		Honolulu County--Ewa	?	?	?											
R13																
R14																
R15																
R16																

Field List:
 NATIVITY Nativity
 YOEP 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, Click 'GO Get Data'

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

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

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

To Create a Formula: Click in the Gray column header of the next empty column (in this table it is column C11).
 Click in the Formula bar directly below 'GO Get Data' and type **=comp(c10/c8*100)**
 Hit the Enter key

Ferrett Tabulation

File Edit Format View Options Help

GO Get Data

Col C11: =comp(c10/c8*100)

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

		Total NATIVITY		Native		Foreign born					
		Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later				
R1	Total GEOG-101	292,007	193,585	98,422	43,453	28,933	14,520	248,554	164,652	83,902	
R3	Maui, Kalawao & Kauai Counties	42,376	29,890	12,486	3,014	2,301	713	39,362	27,589	11,773	
R4	Hawaii County	26,689	16,513	10,176	4,286	2,917	1,369	22,403	13,596	8,807	
R5	Honolulu County--Rural Oahu	13,801	8,302	5,499	4,383	1,763	2,620	9,418	6,539	2,879	
R6	Honolulu County--Kooloapoko	12,219	9,151	3,068	4,131	2,963	1,168	8,088	6,188	1,900	
R7	Honolulu County--East Honolulu to Kapahulu	17,606	11,476	6,130	1,975	1,308	467	15,631	9,968	5,663	
R8	Honolulu County--Tantalus to Waialae	38,084	23,987	14,097	4,217	2,970	1,247	33,867	21,017	12,850	
R9	Honolulu County--Nuuanu to Kalia	48,777	30,628	18,149	5,175	3,947	1,228	43,602	26,681	16,921	
R10	Honolulu County--Moanalua to Pearl City	29,181	19,954	9,227	5,345	3,620	1,725	23,836	16,334	7,502	
R11	Honolulu County--Central Oahu	36,342	27,446	8,896	4,768	4,213	555	31,574	23,233	8,341	
R12	Honolulu County--Ewa	26,932	16,238	10,694	6,159	2,731	3,428	20,773	13,507	7,266	

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

Ferrett Tabulation

File Edit Format View Options Help

GO Get Data

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

		Total NATIVITY		Native		Foreign born				
		Total	Before 2000	After 2000	Total	Before 2000	After 2000	Total	Before 2000	After 2000
R1	Total GEOG-101	292,007	193,585	98,422	43,453	28,933	14,520	248,554	164,652	83,902
R3	Maui, Kalawao & Kauai Counties	42,376	29,890	12,486	3,014	2,301	713	39,362	27,589	11,773
R4	Hawaii County	26,689	16,513	10,176	4,286	2,917	1,369	22,403	13,596	8,807
R5	Honolulu County--Rural Oahu	13,801	8,302	5,499	4,383	1,763	2,620	9,418	6,539	2,879
R6	Honolulu County--Kooloapoko	12,219	9,151	3,068	4,131	2,963	1,168	8,088	6,188	1,900
R7	Honolulu County--East Honolulu to Kapahulu	17,606	11,476	6,130	1,975	1,308	467	15,631	9,968	5,663
R8	Honolulu County--Tantalus to Waialae	38,084	23,987	14,097	4,217	2,970	1,247	33,867	21,017	12,850
R9	Honolulu County--Nuuanu to Kalia	48,777	30,628	18,149	5,175	3,947	1,228	43,602	26,681	16,921
R10	Honolulu County--Moanalua to Pearl City	29,181	19,954	9,227	5,345	3,620	1,725	23,836	16,334	7,502
R11	Honolulu County--Central Oahu	36,342	27,446	8,896	4,768	4,213	555	31,574	23,233	8,341
R12	Honolulu County--Ewa	26,932	16,238	10,694	6,159	2,731	3,428	20,773	13,507	7,266

NATIVITY Nativity
 YOEP Year of entry
 GEOG-101 Public Use Microdata
 RECODE1 Recode1

Highlight column C11, click on decimal icon

Col C11=C11

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

R1	C1	Total NATIVITY		Native		Foreign born		C11	C12	C13	C14
		Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later				
R2	Total GEOG-101	292,007	193,385	98,422	43,453	28,933	14,520	248,554	164,652	83,902	34
R3	Maui, Kalawao & Kauai Counties	42,376	29,890	12,486	3,014	2,301	713	39,362	27,589	11,773	30
R4	Hawaii County	26,689	16,513	10,176	4,286	2,917	1,369	22,403	13,596	8,807	39
R5	Honolulu County--Rural Oahu	13,801	8,302	5,499	4,383	1,763	2,620	9,418	6,539	2,879	31
R6	Honolulu County--Koolau-poho	12,219	9,151	3,068	4,131	2,963	1,168	8,088	6,188	1,900	28
R7	Honolulu County--East Honolulu to Kapahulu	17,606	11,476	6,130	1,975	1,508	467	15,631	9,968	5,663	36
R8	Honolulu County--Tentulus to Waikiki	38,084	23,987	14,097	4,217	2,970	1,247	33,867	21,017	12,850	38
R9	Honolulu County--Nuuanu to Kalia	48,777	30,628	18,149	5,175	3,947	1,228	43,602	26,681	16,921	39
R10	Honolulu County--Moanalua to Pearl City	29,181	19,954	9,227	5,345	3,620	1,725	23,836	16,334	7,502	31
R11	Honolulu County--Central Oahu	36,342	27,446	8,896	4,768	4,213	555	31,574	23,233	8,341	26
R12	Honolulu County--Ewa	26,932	16,238	10,694	6,159	2,731	3,428	20,773	13,307	7,266	35

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

Select 'One decimal place' and click 'OK'

Col C11=COMP(C10/C6*100)

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

R1	C1	Total NATIVITY		Native		Foreign born		C11	C12	C13	C14
		Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later	Total	Before 2000/2000 or Later				
R2	Total GEOG-101	292,007	193,385	98,422	43,453	28,933	14,520	248,554	164,652	83,902	34
R3	Maui, Kalawao & Kauai Counties	42,376	29,890	12,486	3,014	2,301	713	39,362	27,589	11,773	30
R4	Hawaii County	26,689	16,513	10,176	4,286	2,917	1,369	22,403	13,596	8,807	39
R5	Honolulu County--Rural Oahu	13,801	8,302	5,499	4,383	1,763	2,620	9,418	6,539	2,879	31
R6	Honolulu County--Koolau-poho	12,219	9,151	3,068	4,131	2,963	1,168	8,088	6,188	1,900	28
R7	Honolulu County--East Honolulu to Kapahulu	17,606	11,476	6,130	1,975	1,508	467	15,631	9,968	5,663	36
R8	Honolulu County--Tentulus to Waikiki	38,084	23,987	14,097	4,217	2,970	1,247	33,867	21,017	12,850	38
R9	Honolulu County--Nuuanu to Kalia	48,777	30,628	18,149	5,175	3,947	1,228	43,602	26,681	16,921	39
R10	Honolulu County--Moanalua to Pearl City	29,181	19,954	9,227	5,345	3,620	1,725	23,836	16,334	7,502	31
R11	Honolulu County--Central Oahu	36,342	27,446	8,896	4,768	4,213	555	31,574	23,233	8,341	26
R12	Honolulu County--Ewa	26,932	16,238	10,694	6,159	2,731	3,428	20,773	13,307	7,266	35

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

Ferrett Column/Row Formatting

- 3 #,###,### Three decimal places.
- 2 #,###,### Two decimal places.
- 1 #,###,### One decimal place.
- 0 #,###,### Integer number.
- 1 #,###(0) Number shown in tens.
- 2 #,###(00) Number shown in hundreds.
- 3 #,###(000) Number shown in thousands.
- 4 ##### Number shown as code (no commas).

Ok Cancel

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

Ferrett Tabulation

File Edit Format View Options Help

GO Get Data

(C11R20)
Pivot(s) can be dropped on pivot image above R1.

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

	Total NATIVITY		Native		Foreign born						
	Total	Before 2000/2000 or Later/Total	Before 2000/2000 or Later/Total	Before 2000/2000 or Later/Total	Before 2000/2000 or Later/Total	Before 2000/2000 or Later/Total	Entered Since 2000				
R1											
R2	Total GEOG-101	292,007	193,583	98,422	43,453	28,933	14,520	248,554	164,632	83,902	33.8
R3	Hawaii Counties	42,376	29,890	12,486	3,014	2,301	713	39,362	27,589	11,773	29.9
R4	Hawaii County	26,689	16,513	10,176	4,286	2,917	1,369	22,403	13,596	8,807	39.3
R5	Honolulu County--Rural Oahu	13,801	8,302	5,499	4,383	1,763	2,620	9,418	6,339	2,879	30.6
R6	Honolulu County--Koolauptoko	12,219	9,151	3,068	4,131	2,963	1,168	8,088	6,188	1,900	23.5
R7	Honolulu County--East Honolulu to Kapahulu	17,606	11,476	6,130	1,975	1,508	467	15,631	9,968	5,663	36.2
R8	Honolulu County--Tantalua to Waialae	38,084	23,967	14,097	4,217	2,970	1,247	33,867	21,017	12,850	37.9
R9	Honolulu County--Nuuanu to Kalia	48,777	30,628	18,149	5,175	3,947	1,228	43,602	26,681	16,921	38.8
R10	Honolulu County--Moanaloa to Pearl City	29,181	19,954	9,227	3,345	3,620	1,725	23,836	16,334	7,502	31.5
R11	Honolulu County--Central Oahu	36,342	27,446	8,896	4,768	4,213	555	31,574	23,233	8,341	26.4
R12	Honolulu County--Ewa	26,932	16,238	10,694	6,159	2,731	3,428	20,773	13,507	7,266	35.0
R13											
R14											
R15											
R16											
R17											

From File, Click 'Save As'

Ferrett Tabulation

File Edit Format View Options Help

New

Open

Open in New Window

Save

Save As

Get Data

Debug

Print

Print Selected

Table Properties

Generate PDF

Graph

Map

Map Points

TimeSeries Graph

Rename

Exit

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

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

	Total NATIVITY		Native		Foreign born						
	Total	Before 2000/2000 or Later/Total	Before 2000/2000 or Later/Total	Before 2000/2000 or Later/Total	Before 2000/2000 or Later/Total	Before 2000/2000 or Later/Total	Entered Since 2000				
R1											
R2	Total GEOG-101	292,007	193,583	98,422	43,453	28,933	14,520	248,554	164,632	83,902	33.8
R3	Hawaii Counties	42,376	29,890	12,486	3,014	2,301	713	39,362	27,589	11,773	29.9
R4	Hawaii County	26,689	16,513	10,176	4,286	2,917	1,369	22,403	13,596	8,807	39.3
R5	Honolulu County	13,801	8,302	5,499	4,383	1,763	2,620	9,418	6,339	2,879	30.6
R6	Honolulu County--Koolauptoko	12,219	9,151	3,068	4,131	2,963	1,168	8,088	6,188	1,900	23.5
R7	Honolulu County--East Honolulu to Kapahulu	17,606	11,476	6,130	1,975	1,508	467	15,631	9,968	5,663	36.2
R8	Honolulu County--Tantalua to Waialae	38,084	23,967	14,097	4,217	2,970	1,247	33,867	21,017	12,850	37.9
R9	Honolulu County--Nuuanu to Kalia	48,777	30,628	18,149	5,175	3,947	1,228	43,602	26,681	16,921	38.8
R10	Honolulu County--Moanaloa to Pearl City	29,181	19,954	9,227	3,345	3,620	1,725	23,836	16,334	7,502	31.5
R11	Honolulu County--Central Oahu	36,342	27,446	8,896	4,768	4,213	555	31,574	23,233	8,341	26.4
R12	Honolulu County--Ewa	26,932	16,238	10,694	6,159	2,731	3,428	20,773	13,507	7,266	35.0
R13											
R14											
R15											
R16											
R17											

Name the table 'Foreign Born Hawaii PUMAs'

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

Name	Variable Label	Availability
NATIVITY	Nativity	2006 - current
Y12P	Year of Entry	2012 - current
GE0G-101	Public Use Microdata Area (PUMA)	2012 - current
RECODE1	Year of Entry Recode	2012 - current
PWGTP	PUMS person weight	2006 - current

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

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
- Merge Datasets
- Save Selected Variable(s) CodeBook
- Create Multi-Variable Data Step

You Can Save to Your Desktop Save File as Text Documents – Comma Delimited (Excel)

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

Name	Variable Label	Availability
ACTIVITY	Nativity	
QEP	Year of entry	
EOG-101	Public Use Microdata Area (PUMA)	
ECODE1	Year of Entry Recode	
WGTP	PUMS person weight	

Save in: Desktop

File name: Foreign Born Hawaii PUMAs

Files of type: Ferrett Tabulation Files

- HTML Files
- Text Documents - Tab Delimited
- Text Documents - Comma Delimited
- 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
- Merge Datasets
- Save Selected Variable(s) CodeBook
- Create Multi-Variable Data Step

		C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
		Total NATIVITY			Native			Foreign born			
R1		Total	Before 2000	After 2000	Total	Before 2000	After 2000	Total	Before 2000	After 2000	% Entered Since 2000
R2	al GEOG-101	292,007	193,585	98,422	43,453	28,933	14,520	248,554	164,652	83,902	33.8
R3	ui, Kalawao & Kauai Counties	42,376	29,890	12,486	3,014	2,301	713	39,362	27,589	11,773	29.9
R4	aii County	26,689	16,513	10,176	4,286	2,917	1,369	22,403	13,596	8,807	39.3
R5	onolulu County--Rural Oahu	13,801	8,302	5,499	4,383	1,763	2,620	9,418	6,539	2,879	30.6
R6	onolulu County--Koolaupoko	12,219	9,151	3,068	4,131	2,963	1,168	8,088	6,188	1,900	23.5
R7	onolulu County--East Honolulu to Kapahulu	17,606	11,476	6,130	1,975	1,508	467	15,631	9,968	5,663	36.2
R8	onolulu County--Tantalus to Waikiki	38,084	23,987	14,097	4,217	2,970	1,247	33,867	21,017	12,850	37.9
R9	onolulu County--Nuuanu to Kalihi	48,777	30,628	18,149	5,175	3,947	1,228	43,602	26,681	16,921	38.8
R10	onolulu County--Moanalua to Pearl City	29,181	19,954	9,227	5,345	3,620	1,725	23,836	16,334	7,502	31.5
R11	onolulu County--Central Oahu	36,342	27,446	8,896	4,768	4,213	555	31,574	23,233	8,341	26.4
R12	onolulu County--Ewa	26,932	16,238	10,694	6,159	2,731	3,428	20,773	13,507	7,266	35.0
R13											
R14											
R15											
R16											
R17											
R18											
R19											

Foreign Born Hawaii PUMAs

	Total NATIVITY			Native			Foreign born			% Entered Since 2000
	Total	Before 2000	After 2000	Total	Before 2000	After 2000	Total	Before 2000	After 2000	
Total GEOG-101	292007	193585	98422	43453	28933	14520	248554	164652	83902	33.8
Maui, Kalawao & Kauai Counties	42376	29890	12486	3014	2301	713	39362	27589	11773	29.9
Hawaii County	26689	16513	10176	4286	2917	1369	22403	13596	8807	39.3
Honolulu County--Rural Oahu	13801	8302	5499	4383	1763	2620	9418	6539	2879	30.6
Honolulu County--Koolaupoko	12219	9151	3068	4131	2963	1168	8088	6188	1900	23.5
Honolulu County--East Honolulu to Kapahulu	17606	11476	6130	1975	1508	467	15631	9968	5663	36.2
Honolulu County--Tantalus to Waikiki	38084	23987	14097	4217	2970	1247	33867	21017	12850	37.9
Honolulu County--Nuuanu to Kalihi	48777	30628	18149	5175	3947	1228	43602	26681	16921	38.8
Honolulu County--Moanalua to Pearl City	29181	19954	9227	5345	3620	1725	23836	16334	7502	31.5
Honolulu County--Central Oahu	36342	27446	8896	4768	4213	555	31574	23233	8341	26.4
Honolulu County--Ewa	26932	16238	10694	6159	2731	3428	20773	13507	7266	35

Questions



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