

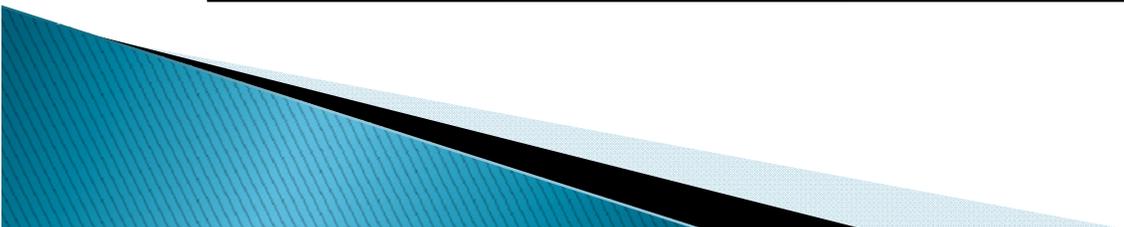
U.S. Census Bureau Data Products and DBEDT Data Support Programs

Eugene Tian

Department of Business, Economic Development & Tourism
to the

Hawaii Congress of Planning
Officials 2012 Conference

September 13, 2012



Product**Frequency****Data Products**

Decennial Census

Every 10 years

Population demographics

Economic Census

Every 5 years

Industry data

American Community Survey

Every year

Population demographic, social,
economic, and housing

Current Population Survey

Every year

Income, employment, poverty, and
health insurance

County Business Patterns

Every year

Industry data

Zip Code Business Patterns

Every year

Industry data

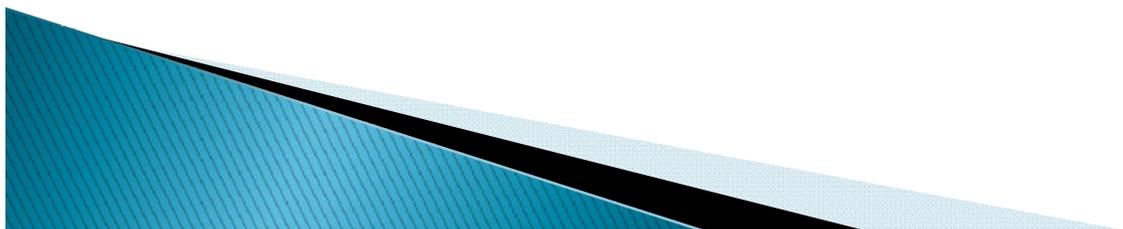
Local Employment Dynamics

Quarterly

Employment data

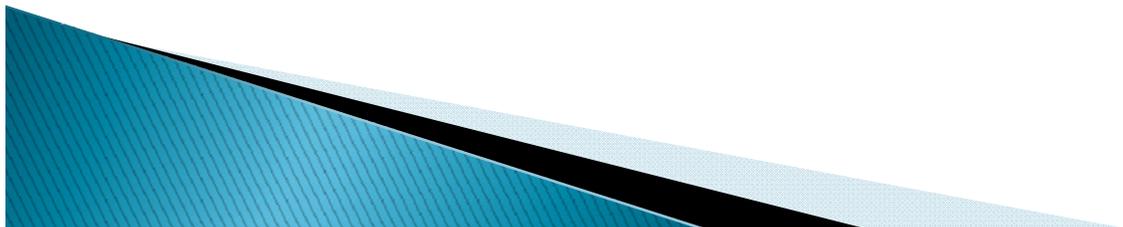
Major changes in the past three Censuses

	1990	2000	2010
Forms	Long and short	Long and short	Short only
Race	Choose only one	Allow multiple selection	Allow multiple selection
Industry classification	SIC	NAICS	NAICS
School enrollment	No grade level	7 levels	5 levels



Differences between Census long form and ACS

Category	Census Long Form	ACS
Sample size	1 in 6	1 in 40
Time frame	April 1	Period estimates
Residence rules	Usual place	2 months +
Income	Previous calendar year	Previous 12 months
Poverty	Previous calendar year	Previous 12 months
Migration	Residence 5 years ago for pop 5+	Residence 1 year ago for pop 1+
Group quarter	Complete count	Selected facilities
School enrollment	Since February 1	Last 3 months



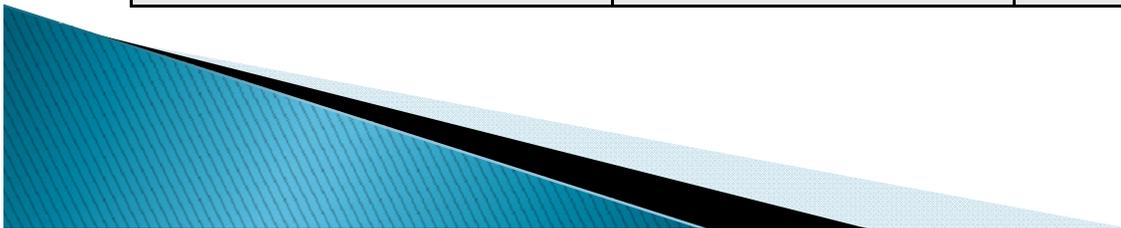
American Community Survey for Hawaii

Sample Sizes

Year	Housing Units	% of State Total	Group Quarters People	% of State Total
2000	4,119	0.9	NA	NA
2001	4,489	1.0	NA	NA
2002	3,968	0.8	NA	NA
2003	4,230	0.9	NA	NA
2004	4,304	0.9	NA	NA
2005	7,627	1.6	NA	NA
2006	7,629	1.5	598	1.6
2007	7,473	1.5	457	1.3
2008	7,303	1.4	590	1.7
2009	7,417	1.4	477	1.4
2010	7,537	1.5	497	1.2

American Community Survey Data Products

Category	1-Year	3-Year	5-Year
Demographic	Yes	Yes	Yes
Social	Yes	Yes	Yes
Economic	Yes	Yes	Yes
Housing	Yes	Yes	Yes
Major race data	Selected	All	All
Census tract data	No	No	Yes
PUMA level data	Yes	Yes	Yes
County level data	Yes	Yes	Yes

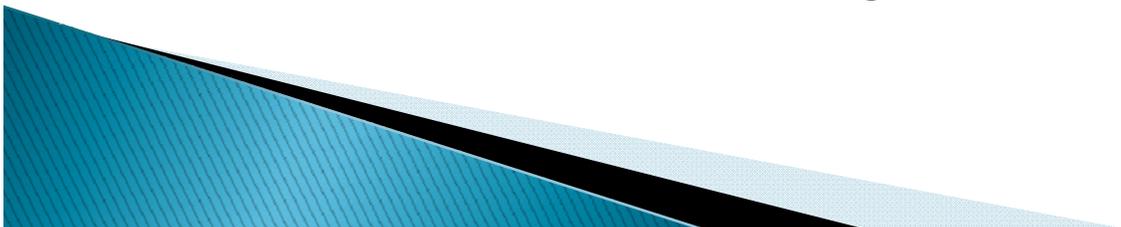


Example of American Community Survey and the Census Results

Race	1 year: 2010		3 year: 2008–2010		5 year: 2006–2010		2010 Census
	% of State	MOE	% of State	MOE	% of State	MOE	
Chinese alone	4.4%	+/-0.5	4.3%	+/-0.2	4.3%	+/-0.1	4.0
Filipino alone	14.7%	+/-1.0	14.5%	+/-0.6	14.2%	+/-0.4	14.5
Japanese alone	13.7%	+/-0.6	13.7%	+/-0.3	14.4%	+/-0.2	13.6
Korean alone	1.8%	+/-0.3	1.9%	+/-0.2	1.8%	+/-0.1	1.8

Federal–State Cooperative Program for Population Estimates (FSCPE)

- ▶ Formally in existence since 1967
- ▶ Cooperative program between the State of Hawaii and the U.S. Census Bureau
- ▶ Prepare set of consistent and jointly prepared county and subcounty estimates on population
- ▶ Assure high quality estimates through the use of established methods, data review and testing
- ▶ Reduce duplication in the production of population estimates
- ▶ Allows input and recognition of local entities such as DBEDT
- ▶ Estimates used for federal funding, survey controls, denominators for vital rates and per capita times series, and indicators of recent demographic changes



Population estimate methodology

$$P_t = P_{t-1} + B_t - D_t + M_t$$

Where

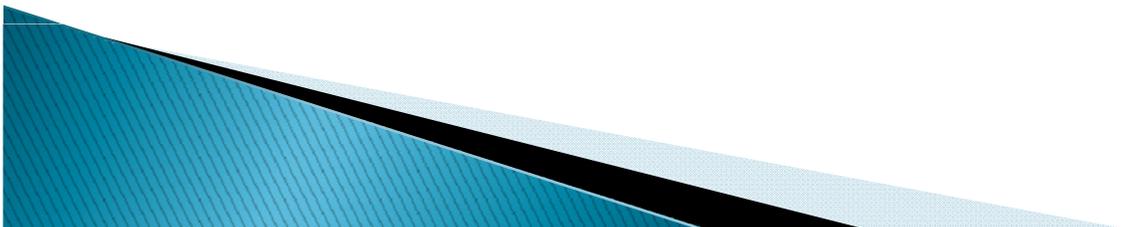
P_t = Population in current year

P_{t-1} = Population last year

B_t = Births this year

D_t = Deaths this year

M_t = Net migration

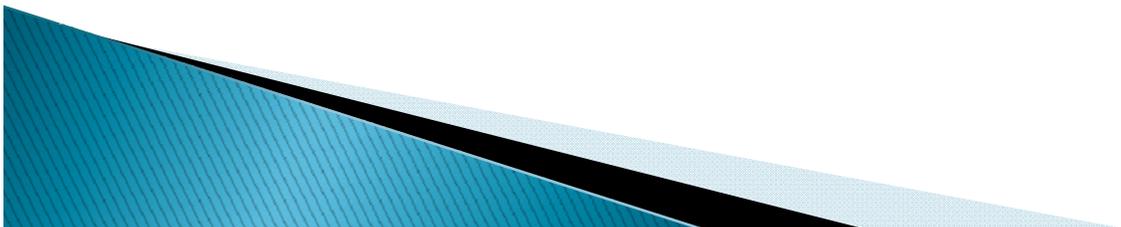


Hawaii population was under estimated in the past decade

Year	July 1 Pop	Births	Deaths	Net Migration	Residual
2000	1,211,566	17,300	8,489	-1,033	-1,039
2001	1,218,305	17,269	8,788	2,443	-1,160
2002	1,228,069	17,826	8,471	3,423	-1,549
2003	1,239,298	18,411	8,912	5,232	-1,247
2004	1,252,782	18,017	8,846	5,451	-1,287
2005	1,266,117	18,372	9,115	1,218	-993
2006	1,275,599	19,037	9,302	-8,682	101
2007	1,276,753	19,393	9,723	1,172	-81
2008	1,287,514	19,093	9,792	-1,270	-340
2009	1,295,205	17,300	8,489	-1,033	-1,039
Average		18,302	9,049	692	-863

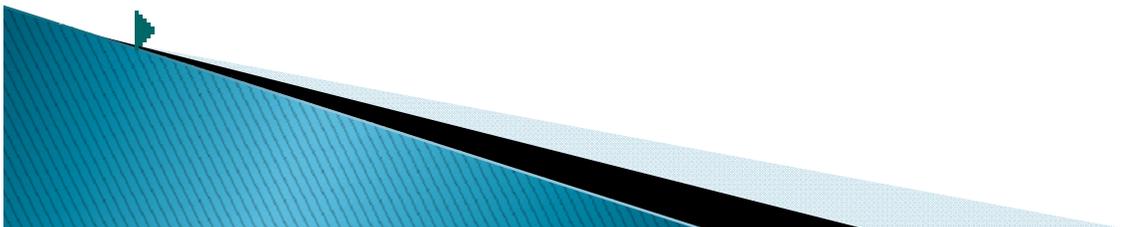
Actual population change between 2000 and 2010

Item	Annual average between 2000-2010
Births	18,277
Deaths	8,965
Net migration	5,565



Hawaii State Data Center Program

- ▶ Federal–state cooperative program agreement in existence since 1978
- ▶ Agreement between the State of Hawaii (DBEDT) and the U.S. Census Bureau. Designation as an official source of census data for Hawaii
- ▶ Partners with the Bureau in data collection, data use and data distribution
- ▶ Network with 24 affiliate organizations located on the islands of Oahu, Hawaii, Kauai, Maui and Molokai.
- ▶ Assist with decennial censuses
- ▶ Provide census training such as free public workshops
- ▶ Produce census reports, analyses and data tables
- ▶ Distribution of Hawaii census data through DBEDT Internet site at:
 - ▶ <http://hawaii.gov/dbedt/info/census>
 - ▶ Assist census data users via email, phone, other





Aloha from DBEDT!

The Department of Business, Economic Development & Tourism is Hawaii's resource center for economic and statistical data, business development opportunities, energy and conservation information, and foreign trade advantages. [Read More](#)



HAWAII COMMUNITY DEVELOPMENT AUTHORITY

HAWAII FILM OFFICE

HAWAII HOUSING FINANCE & DEVELOPMENT CORP.

HAWAII STRATEGIC DEVELOPMENT CORP.

HAWAII TOURISM AUTHORITY

HIGH TECHNOLOGY DEVELOPMENT CORP.

LAND USE COMMISSION

NATURAL ENERGY LABORATORY OF HAWAII AUTHORITY

OFFICE OF PLANNING



Spotlight »

- Innovation Initiative
- Information Resources
- DBEDT Programs
- Business Resources

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P.O. Box 2359
Honolulu, Hawaii 96804

No. 1 Capitol District Building
([See Map](#))
250 S. Hotel Street
Honolulu, Hawaii 96813

[More Info](#)

What's New »

- Monthly Energy Trends (09-10-2012)
- Free DBEDT Census Workshops - Week of Sept. 24, 2012 (09-04-2012)
- State Forecasts Stronger Tourism Growth (08-16-2012)
- 2011 State of Hawaii Data Book (08-14-2012)
- State of Hawai'i Data Book 2011 Now Available on the Internet (08-14-2012)

Information Resources »

- Daily Passenger Counts
- Weekly Unemployment Updates
- Annual Reports & Reports to the Legislature
- Visitor Statistics
- State of Hawaii Facts & Figures



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Hawaii Census Data

The Hawaii State Data Center and the Hawaii Federal State Cooperative Program for Population Estimates participate in joint federal-state cooperative programs with the U.S. Census Bureau. These two programs are part of the Research and Economic Analysis Division of DBEDT and assist census data users in Hawaii.

- [Free DBEDT Census Workshops - Week of Sept. 24, 2012](#)
- [Latest Population Estimate Data](#)
- [American Community Survey](#)

Decennial Census of Population and Housing

- [Hawaii Census 2010](#)
- [Hawaii Census 2000](#)
- [Hawaii Census 1990](#)
- [Hawaii Census 2010 Promotion](#)

Economic Census

- [Economic Census 2007](#)
- [Economic Census 2002](#)

Hawaii State Data Center

- [Hawaii State Data Center Affiliates](#)
- [Event Pictures](#)

Other Census information sites:

- [U.S. Census Bureau](#)
- [Los Angeles Regional Office](#)
- [American FactFinder](#)
- [Local Employment Dynamics \(LED\)](#)

INFORMATION RESOURCES

Economic Data

- [Economic Data & Reports](#)
- [State of Hawaii Data Book](#)
- [DBEDT Information Services](#)
- [READ Customer Satisfaction Survey](#)

Hawaii Census Data

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Economic Census 2002

Hawaii State Data Center Affiliates

Event Pictures

U.S. Census Bureau

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American FactFinder

Local Employment Dynamics (LED)

Visitor Statistics

Monthly Visitor Statistics

Developing International Markets

Oahu & Neighbor Island Highlights

Tourism Forecast

Annual Visitor Research Report

Visitor Plant Inventory

Visitor Satisfaction & Activity Report

Air Seats Capacity Outlook

State Data Center Reports from Census 2010

HSDC 2010-1	Population by Major Race Categories Alone or in Combination by County and Census Tract, State of Hawaii: 2010
HSDC 2010-2	2010 Census Tract Names and Their Population, Housing and Land Area for the State of Hawaii
HSDC 2010-3	Island Population and Housing Units, State of Hawaii: 2010
HSDC 2010-4	Native Hawaiian Population by County, Island and Census Tract in the State of Hawaii: 2010
HSDC 2010-5	Filipino Population by County, Island and Census Tract in the State of Hawaii: 2010
HSDC 2010-6	Japanese Population by County, Island and Census Tract in the State of Hawaii: 2010
HSDC 2010-7	Korean Population by County, Island and Census Tract in the State of Hawaii: 2010
HSDC 2010-8	Chinese Population by County, Island and Census Tract in the State of Hawaii: 2010
HSDC 2010-9	Samoan Population by County, Island and Census Tract in the State of Hawaii: 2010
HSDC 2010-10	Vietnamese Population by County, Island and Census Tract in the State of Hawaii: 2010

DBEDT Long-Range Population Projections

Population and Economic Projections for the State of Hawaii to 2040

DBEDT 2040 Series

Research and Economic Analysis Division
Department of Business, Economic Development and Tourism

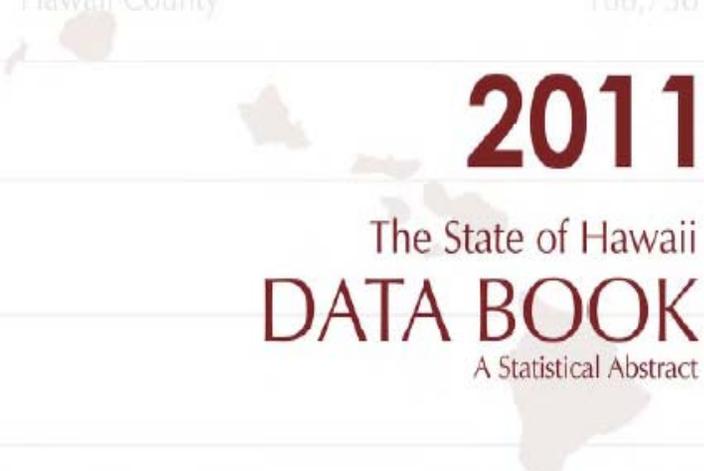
March 2012

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DBEDT Data Book

State Population Total	1,374,810
City & County of Honolulu	963,607
Hawaii County	186,738
Kauai County	67,701
Maui County	156,764



2011

The State of Hawaii
DATA BOOK
A Statistical Abstract



Table 1.04-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1990 TO 2011

Date	Resident population 1/		De facto population 3/		De facto-resident ratio 3/
	Total	Temporarily absent 2/	Total	Visitors present 4/	
1990: April 1	1,108,229	28,602	1,230,731	151,104	1.111
July 1	1,113,491	27,994	1,240,013	154,516	1.114
1991: July 1	1,136,754	31,812	1,252,265	147,323	1.102
1992: July 1	1,158,613	39,200	1,271,662	152,249	1.098
1993: July 1	1,172,838	52,487	1,267,849	147,498	1.081
1994: July 1	1,187,536	54,362	1,289,804	156,630	1.086
1995: July 1	1,196,854	55,856	1,298,096	157,098	1.085
1996: July 1	1,203,755	58,137	1,303,915	158,297	1.083
1997: July 1	1,211,640	40,898	1,327,930	157,187	1.096
1998: July 1	1,215,233	38,495	1,334,125	157,388	1.098
1999: July 1	1,210,300	42,297	1,332,442	164,439	1.101
2000: April 1	1,211,537	42,021	1,337,991	168,475	1.104
July 1	1,213,519	46,151	1,336,005	168,637	1.101
2001: July 1	1,225,948	46,566	1,337,629	158,247	1.091
2002: July 1	1,239,613	46,757	1,353,051	160,195	1.092
2003: July 1	1,251,154	53,447	1,358,755	161,048	1.086
2004: July 1	1,273,569	57,481	1,387,569	171,481	1.090
2005: July 1	1,292,729	65,674	1,412,500	185,445	1.093
2006: July 1	1,309,731	68,656	1,430,516	189,441	1.092
2007: July 1	1,315,675	71,626	1,433,461	189,412	1.090
2009: July 1	1,346,717	69,245	1,468,091	177,949	1.077
2010: July 1	1,363,359	73,217	1,486,771	185,824	1.081
2011: July 1	1,374,810	73,863	1,486,771	185,824	1.081

DBEDT/OP website for maps

www.arcgis.com/explorer/?open=1f2b62edda8b4448839084d58277b594

2010 Census Race Population for Hawaii

Mapping Presentation Sign In Help

Home Details Share

Find Places

2010 Census Race Population

Census Tract: 4.02
Name: Waialae Iki
Description: Census Tract 4.02, Honolulu County, Hawaii
Total Population: 3,999
White Alone or Combo: 1,404 (35.11%)
Filipino Alone or Combo: 243 (6.08%)
Japanese Alone or Combo: 1,568 (39.21%)
Native Hawaiian Alone or Combo: 240 (6.00%)
Chinese Alone or Combo: 1,094 (27.36%)
Korean Alone or Combo: 323 (8.08%)
Samoan Alone or Combo: 10 (0.25%)
Vietnamese Alone or Combo: 33 (0.83%)

[More 2010 Census Data for Hawaii](#)

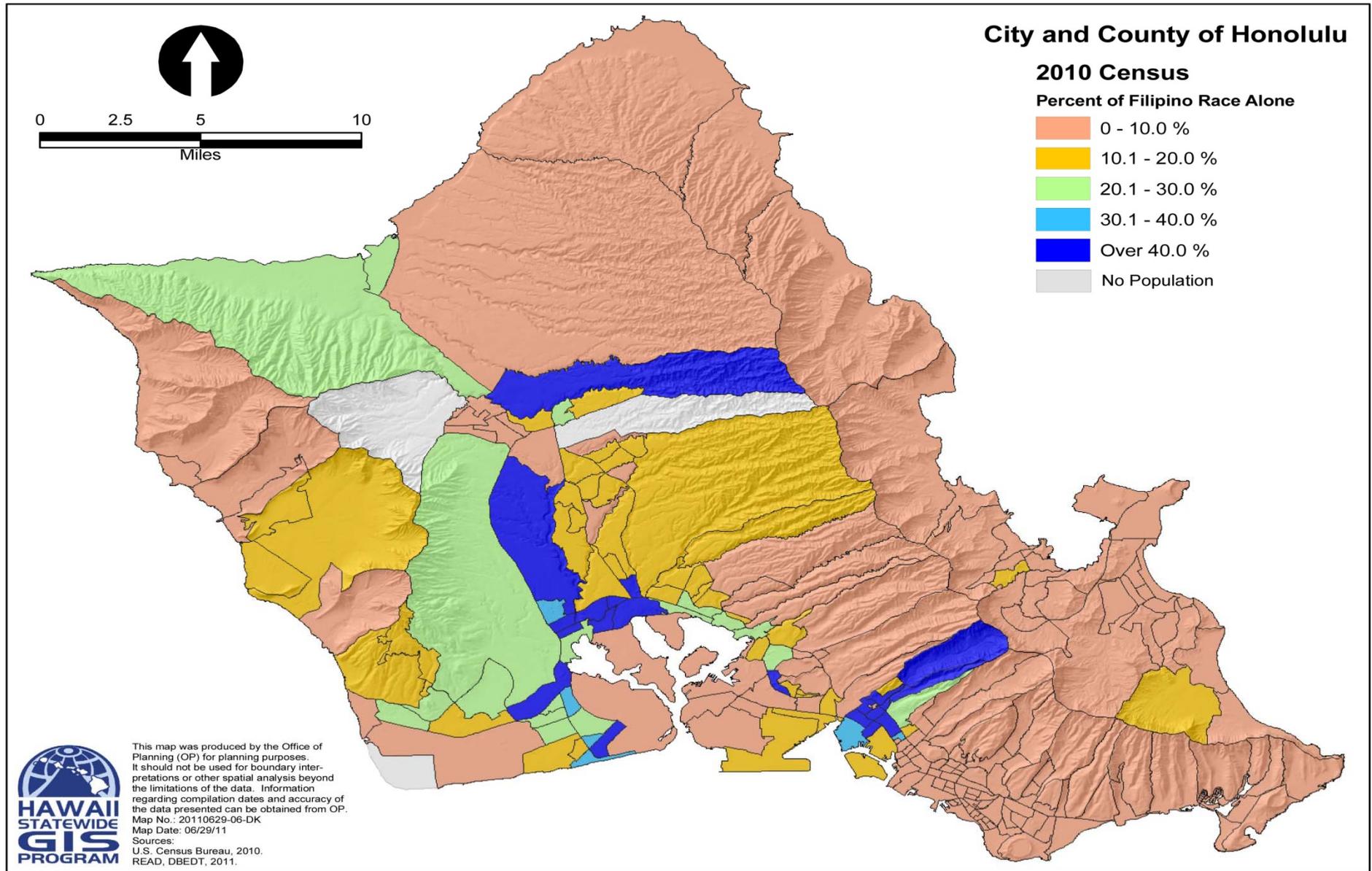
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http://hawaii.gov/dbedt/gis/census_online_maps.htm

Kalihi, Waipahu, and Wahiawa have more Filipinos than other areas



How Census Data are used at DBEDT

GEOGRAPHIC AREA STATISTICS 2007

Income, Employment, Education, and Housing Characteristics
of Public Use Microdata Areas (PUMAs) in Hawaii:
2005 to 2007

March 2009

Research and Economic Analysis Division



Hawaii Economic Issues
Periodic research and data reports on issues of current interest
State of Hawaii - Department of Business, Economic Development & Tourism
Research & Economic Analysis Division

Data Report 2011

The banner features the title "Hawaii Economic Issues" in a large, bold font. Below it is a subtitle: "Periodic research and data reports on issues of current interest". Further down, it says "State of Hawaii - Department of Business, Economic Development & Tourism" and "Research & Economic Analysis Division". To the right of the text is a stylized globe showing the Hawaiian Islands. Below the banner is a blue bar with the text "Data Report 2011" in white.

The Non-English Speaking Population in Hawaii

Introduction

The report examines social, economic and demographic characteristics of people in Hawaii who speak language other than English at home and by the level of their speaking ability of English.

In Hawaii, 24.8 percent of households speak a language other than English at home.

Only 54.5 percent of that population is able to speak English "very well."

18.5 percent of Hawaii's population reports speaking English "not well" or "not at all."

This report only presents the most current data available and does not examine the policy implications of these data.

Data in this report are mainly on population 5 years old and above who speak another language at home. The tables in this report were tabulated by using the U.S. Census Bureau's the American Community Survey (ACS) 2008-2008 3-Year estimates PUMS data. The ACS is the survey conducted nationwide throughout the year and collects information about demographic, social, economic and housing characteristics of people. It has replaced the decennial census long form for Census 2010.

The ACS is available by single-year, 3-year and 5-year multi-year estimates collected over a period of time depending on the size of the geography. The multiyear estimates are more reliable to observe the small sample population. For more information, the ACS can be found at the Census Bureau's website at <http://www.census.gov/acs/www/>.



U.S. Census Bureau

American Community Survey

The U.S. Census Bureau logo, featuring a stylized "160" and the text "U.S. Census Bureau". Below it is a blue bar with the text "American Community Survey" in white.