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Ame	rican Community Su	rvey	/ (A	CS)				
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Using the	e Data: Quality Measures							
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Sample Size	Coverage hates.	Definition		*	awaii	IIION PICK		1
Response R	ates: Data Definitions Item Allocation Rates: Data	Definition	S		awaii		Go	
Hawaii	Item Allocation Rates							
	Housing: Physical Characteristics Utilities S Population: Basic Demographics Origin and Lan Grandparents and Fertility Military	iguage Edi	ucation N	Nobility and	d Migratio	n Disabili	ities	
	Housing: Physical Characteristics			Perce	nt Alloca	ited		
	Item	2006	2005	2004	2003	2002	2001	2000
	Vacancy Status	2.1	1.4	1.5	0.4	5.6	6.3	2.7
	vacant housing units							2.1
	Tenure occupied housing units	0.7	0.5	0.7	1.0	0.8	0.8	
	Tenure	0.7 1.9	0.5 1.5	0.7 2.5	1.0 1.4	0.8 2.1	0.8 1.4	1.1
	Tenure occupied housing units Units in Structure	-		-	-			1. ⁻ 1.6
	Tenure occupied housing units Units in Structure occupied and vacant housing units Year moved in	1.9	1.5	2.5	1.4	2.1	1.4	1. ⁻ 1.6 3.8
	Tenure occupied housing units Units in Structure occupied and vacant housing units Year moved in occupied housing units Month moved in occupied housing units into which	1.9 3.2	1.5 2.9	2.5 3.8	1.4 3.9	2.1 3.3	1.4 3.5	1.1 1.6 3.8 0.8
	Tenure occupied housing units Units in Structure occupied and vacant housing units Year moved in occupied housing units Month moved in occupied housing units into which households move in the last two years Year built	1.9 3.2 0.9	1.5 2.9 0.6	2.5 3.8 1.0	1.4 3.9 0.9	2.1 3.3 1.0	1.4 3.5 0.9	1.1 1.6 3.8 0.8 15.6
	Tenure occupied housing units Units in Structure occupied and vacant housing units Year moved in occupied housing units Month moved in occupied housing units into which households move in the last two years Year built occupied and vacant housing units Lot size occupied and vacant single family and	1.9 3.2 0.9 12.7	1.5 2.9 0.6 13.1	2.5 3.8 1.0 12.7	1.4 3.9 0.9 12.3	2.1 3.3 1.0 15.7	1.4 3.5 0.9 15.2	1.1 1.6 3.8 0.8 15.6 3.9 7.8
	 Tenure occupied housing units Units in Structure occupied and vacant housing units Year moved in occupied housing units Month moved in occupied housing units into which households move in the last two years Year built occupied and vacant housing units Lot size occupied and vacant single family and mobile homes Agricultural sales occupied and vacant single family and mobile homes with lot size greater than or 	 1.9 3.2 0.9 12.7 2.7 	1.5 2.9 0.6 13.1 2.4	2.53.81.012.73.1	1.4 3.9 0.9 12.3 3.9	2.13.31.015.73.3	1.4 3.5 0.9 15.2 4.3	1.1 1.6 3.8 0.8 15.6 3.9
	 Tenure occupied housing units Units in Structure occupied and vacant housing units Year moved in occupied housing units Month moved in occupied housing units into which households move in the last two years Year built occupied and vacant housing units Lot size occupied and vacant single family and mobile homes Agricultural sales occupied and vacant single family and mobile homes with lot size greater than or equal to 1 acre Business on property occupied and vacant single family and 	 1.9 3.2 0.9 12.7 2.7 4.7 	 1.5 2.9 0.6 13.1 2.4 4.0 	 2.5 3.8 1.0 12.7 3.1 3.8 	 1.4 3.9 0.9 12.3 3.9 4.5 	 2.1 3.3 1.0 15.7 3.3 6.4 	 1.4 3.5 0.9 15.2 4.3 8.4 	1.1 1.6 3.8 0.8 15.6 3.9 7.8

Using the Data - Quality Measures: Item Allocation Rates for Hawaii

occupied and vacant housing units							
Complete plumbing occupied and vacant housing units	0.8	0.7	1.0	0.8	0.8	0.9	0.8
Complete kitchen occupied and vacant housing units	0.8	0.8	1.0	0.7	1.0	1.0	0.9
Telephone occupied housing units	0.4	0.3	0.5	0.6	0.3	0.5	0.7
Number of vehicles occupied housing units	0.6	0.6	0.8	1.4	0.8	1.0	1.1

Housing: Utilities	Back to the top Percent Allocated								
Item	2006	2005	2004	2003	2002	2001	2000		
Heating fuel occupied housing units	0.7	0.5	0.7	0.6	0.9	0.8	1.1		
Monthly electricity cost occupied housing units	5.5	4.3	4.7	4.7	3.6	4.6	5.4		
Monthly gas cost occupied housing units	7.6	7.3	7.3	7.5	7.4	9.5	10.9		
Yearly water and sewer cost occupied housing units	7.6	6.9	5.7	5.1	3.9	5.2	6.1		
Yearly other fuel cost occupied housing units	6.3	6.0	6.3	6.4	6.9	8.1	9.8		

	Back to the top							
Housing: Special Programs	Percent Allocated							
Item	2006	2005	2004	2003	2002	2001	2000	
Yearly food stamp recipiency/amount - households occupied housing units	2.3	1.9	2.1	2.3	2.6	2.0	2.6	

Housing: Mortgage Items	Back to the top Percent Allocated							
Item	2006	2005	2004	2003	2002	2001	2000	
Yearly real estate taxes owner-occupied housing units	27.5	25.7	26.5	26.7	24.3	26.8	27.6	
Yearly property insurance owner-occupied housing units	31.9	31.4	31.8	32.0	32.0	33.2	34.1	
Mortgage status owner-occupied housing units	1.2	0.8	1.2	1.6	1.6	1.4	2.2	
Monthly mortgage payment owner-occupied housing units with a mortgage	8.5	6.2	6.7	8.0	6.6	7.6	8.7	
Mortgage payment includes real estate taxes owner-occupied housing units with a mortgage	3.7	2.9	3.6	4.9	3.4	4.2	5.1	

Mortgage payment includes insurance owner-occupied housing units with a mortgage	11.7	10.6	9.2	15.5	12.0	12.3	12.6
Second mortgage owner-occupied housing units	3.0	1.6	1.9	3.6	2.8	2.8	3.7
Home equity loan owner-occupied housing units	3.4	2.2	2.6	3.3	2.6	3.4	4.8
Other monthly mortgage payment(s) owner-occupied housing units with second mortgage or home equity loan	21.2	15.8	21.5	25.1	16.9	11.5	19.5

Housing: Other Financial Characteristics	Back to the top Percent Allocated						
Item	2006	2005	2004	2003	2002	2001	2000
Property value owner-occupied housing units and vacant housing units for sale	8.2	7.3	7.1	8.1	7.2	7.3	8.6
Mobile home loan occupied mobile homes and other units	**	**	**	**	0.0	9.5	0.0
Yearly mobile home costs occupied mobile homes and other units	91.0	36.0	100.0	69.2	63.1	76.0	100.0
Monthly condominium fee owner-occupied housing units	1.6	2.4	1.9	2.0	1.9	2.3	2.2
Monthly rent occupied housing units rented for cash rent and vacant housing units for rent	9.1	7.7	6.4	7.4	6.9	6.9	8.0
Meals included in rent occupied housing units rented for cash rent and vacant housing units for rent	1.1	1.0	1.5	1.5	3.6	2.9	4.6

		Bac	k to the to	р			
Population: Basic Demographics ¹			Perce	nt Alloca	ted		
Item	2006	2005	2004	2003	2002	2001	2000
Race total population	1.9	1.7	2.6	2.3	2.8	1.7	1.3
Hispanic origin total population	2.3	2.2	2.7	2.6	2.8	2.5	5.4
Sex total population	0.4	0.4	0.5	0.5	0.6	0.3	1.1
Age total population	1.5	1.2	1.6	1.5	1.4	1.4	3.9
Relationship total household population	1.8	1.5	1.9	1.3	1.9	1.2	3.4
Marital status total population 15 years and over	1.5	1.1	0.9	1.9	1.9	1.6	3.5
			Bac	k to the to	р		
Population: Origin and Language ¹			Perce	nt Alloca	ited		

http://www.census.gov/acs/www/acs-php/quality_measures_alloc_2006.php

Using the Data - Quality Measures: Item Allocation Rates for Hawaii

Item	2006	2005	2004	2003	2002	2001	2000
Place of birth total population	4.2	4.7	11.1	11.6	4.5	3.9	6.9
Citizenship total population	2.2	2.2	0.6	1.1	0.9	0.5	1.1
Year of entry total population not born in US	9.3	8.2	7.7	8.3	6.9	7.3	11.5
Speaks another language at home total population 5 years and over	2.1	1.9	2.2	2.3	2.7	2.7	5.4
Other language spoken total population 5 years and over who speak another language at home	5.0	5.3	5.0	6.7	7.5	6.8	12.1
English ability total population 5 years and over who speak another language at home	3.7	3.2	3.4	4.6	4.2	4.3	8.6
Population: Education ¹				k to the to nt Alloca			
Item	2006	2005	2004	2003	2002	2001	2000
School enrollment total population 3 years and over	2.9	2.6	3.1	3.3	3.0	2.9	5.0
Grade level attending total population 3 years and over enrolled	5.0	5.6	7.4	6.4	5.2	3.9	5.4
Educational attainment total population 3 years and over	4.0	3.5	3.9	4.7	4.2	3.7	6.1
			Bac	k to the to	р		
Population: Mobility and Migration ¹				nt Alloca			
Item	2006	2005	2004	2003	2002	2001	2000
Mobility status total population 1 years and over	2.9	2.6	3.2	3.2	3.0	2.5	5.2
Migration state/foreign country total population 1 years and over movers	3.7	4.0	5.4	6.1	5.6	6.7	18.0
Migration county total population 1 years and over movers within US	5.2	4.6	6.1	7.4	7.0	7.0	18.4
Migration minor civil division total population 1 years and over movers within US	5.2	4.8	6.1	7.4	7.0	7.0	18.7
Migration place total population 1 years and over movers within US	5.7	5.1	6.9	8.5	7.8	7.5	19.4
			Bac	k to the to	р		
Population: Disabilities ¹			Perce	nt Alloca	ted		
Item	2006	2005	2004	2003	2002	2001	2000

Vision or hearing difficulty total population 5 years and over	3.2	2.7	3.5	3.1	3.2	3.4	5.8
Physical difficulty total population 5 years and over	3.7	3.5	4.6	4.0	3.6	3.7	6.0
Difficulty remembering total population 5 years and over	2.9	2.6	3.1	3.0	3.3	3.3	6.1
Difficulty dressing total population 5 years and over	3.1	2.7	3.2	3.1	3.3	3.3	6.1
Difficulty going out total population 16 years and over	3.0	2.5	2.6	3.5	3.8	3.8	7.2
Difficulty working at a job total population 16 years and over	3.6	2.9	3.1	4.1	4.1	4.1	7.5

Population: Grandparents and Fertility ¹	Back to the top Percent Allocated							
Item	2006	2005	2004	2003	2002	2001	2000	
Grandchildren living in home noninstitutionalized population 30 years and over	0.6	0.8	0.7	0.8	4.5	4.5	7.8	
Responsibility for grandchildren noninstitutionalized population 30 years and over who are grandparents with grandchildren in the home	6.7	10.2	9.0	10.6	14.2	12.5	16.7	
Months responsible for grandchildren noninstitutionalized population 30 years and over who are grandparents with grandchildren in the home that have responsibility	16.6	16.3	11.0	18.1	20.1	19.0	26.5	
Fertility female total population 15-50	2.5	2.2	2.0	3.2	3.3	3.0	5.6	

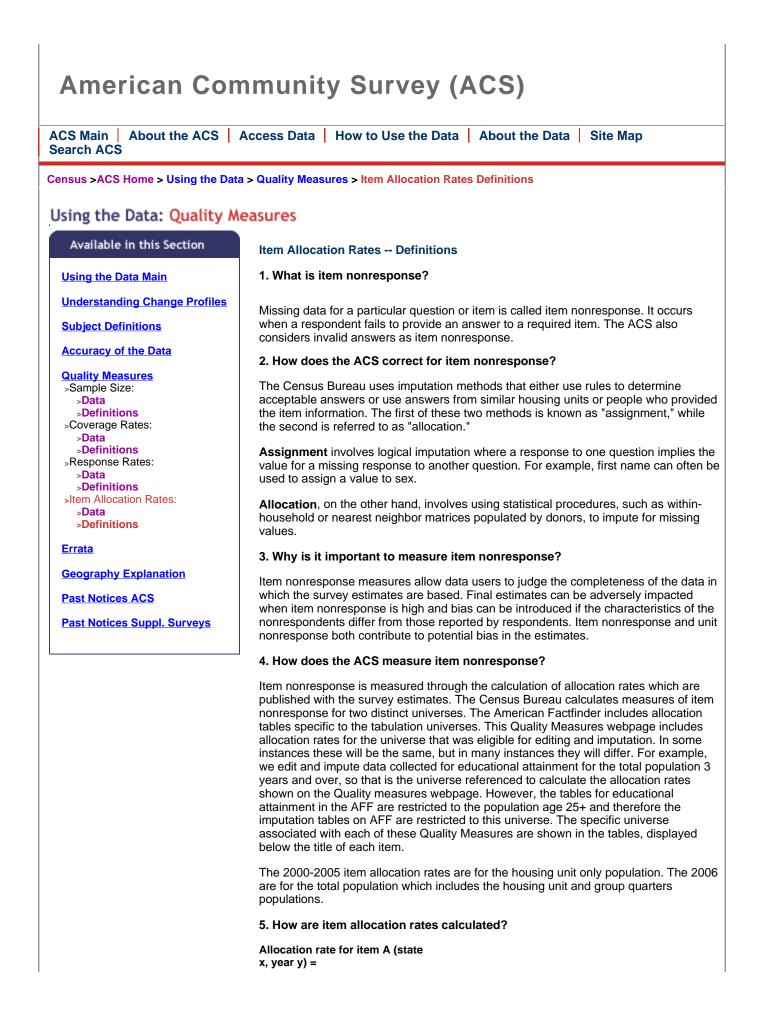
			Bac	k to the to	р			
Population: Military ¹	Percent Allocated							
Item	2006	2005	2004	2003	2002	2001	2000	
Veteran Status total population 17 years and over	3.2	2.3	2.5	3.9	3.6	3.6	6.5	
Periods of military service total population 17 years and over on active duty now or previously	5.3	4.1	4.9	7.6	9.7	9.2	12.6	
Years of active duty total population 17 years and over on active duty now or previously	4.6	3.2	4.1	5.5	5.3	5.4	7.6	
			Bac	k to the to	р			
Population: Labor Force ¹			Perce	nt Alloca	ited			
Item	2006	2005	2004	2003	2002	2001	2000	

Employment Status Recode noninstitutionalized population 16 years and over	3.5	2.8	3.3	4.6	4.4	4.4	8.0
When last worked noninstitutionalized population 16 years and over	4.4	3.3	3.4	5.0	4.5	4.4	8.1
Weeks worked in the past 12 months noninstitutionalized population 16 years and over who worked in the past 12 months	6.6	6.8	7.2	7.8	8.1	7.6	11.1
Hours worked per week noninstitutionalized population 16 years and over who worked in the past 12 months	6.1	6.2	6.6	7.4	7.1	7.2	10.7
Place of work state/foreign country noninstitutionalized population 16 years and over at work last week	4.3	2.6	3.7	4.2	3.7	3.5	7.6
Place of work county noninstitutionalized population 16 years and over at work last week	4.6	2.9	4.1	4.7	4.0	3.8	7.9
Place of work minor civil division noninstitutionalized population 16 years and over at work last week	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Place of work place noninstitutionalized population 16 years and over at work last week	5.1	3.7	4.5	5.6	4.6	4.3	8.5

Population: Journey to Work ¹				k to the to nt Alloca			
Item	2006	2005	2004	2003	2002	2001	2000
Transportation to work noninstitutionalized population 16 years and over at work last week	4.0	2.5	3.0	3.8	3.6	3.2	6.6
Carpool size noninstitutionalized population 16 years and over at work last week who drive to work	4.8	3.7	4.4	4.9	4.1	4.0	7.6
Time of departure noninstitutionalized population 16 years and over at work last week who don't work at home	8.6	7.6	8.1	8.7	8.0	7.5	10.6
Commuting Time noninstitutionalized population 16 years and over at work last week who don't work at home	7.0	5.7	6.2	6.9	6.1	5.7	9.4
			Bac	k to the to	р		
Population: Industry and Occupation ¹			Perce	nt Alloca	ted		
Item	2006	2005	2004	2003	2002	2001	2000
Class of worker total population 16 years and over who worked in the last 5 years	4.8	4.5	4.9	6.4	5.4	5.8	9.5

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	Industry total population 16 years and over who worked in the last 5 years	5.5	5.2	6.7	7.2	5.8	6.4	10.7
	Occupation total population 16 years and over who worked in the last 5 years	5.9	5.6	7.1	7.7	6.5	6.6	10.6
				Bac	k to the to	р		
	Population: Income ¹			Perce	nt Alloca	ted		
	Item	2006	2005	2004	2003	2002	2001	2000
	Wages/salary income total population 15 years and over	15.5	13.0	13.0	13.1	12.7	13.1	15.9
	Self-employment income total population 15 years and over	4.5	3.5	3.7	5.0	4.4	4.3	7.4
	Interest, dividends, etc. income total population 15 years and over	9.1	7.1	8.0	9.3	9.4	10.4	13.5
	Social Security or Railroad Retirement total population 15 years and over	8.0	6.2	6.7	7.6	7.6	8.6	12.3
	Supplemental Security Income total population 15 years and over	5.9	4.5	5.2	6.7	6.6	7.4	10.8
	Public Assistance total population 15 years and over	6.2	4.8	5.4	6.8	7.3	7.9	11.1
	Retirement income total population 15 years and over	6.9	5.5	5.8	7.4	7.3	8.2	11.5
	Other income total population 15 years and over	6.3	4.9	5.4	7.0	7.2	7.7	11.0
	Some or all income allocated total population 15 years and over	21.9	18.9	19.1	19.1	18.8	19.8	22.6
	¹ The universes shown are for the 2006 data only group quarters population, since that population w	as added to	o the ACS		e compara	able unive	rse exclud	ling the
	** This variable was not recorded in 2003, 2004, 2	2005, and 20	006.					
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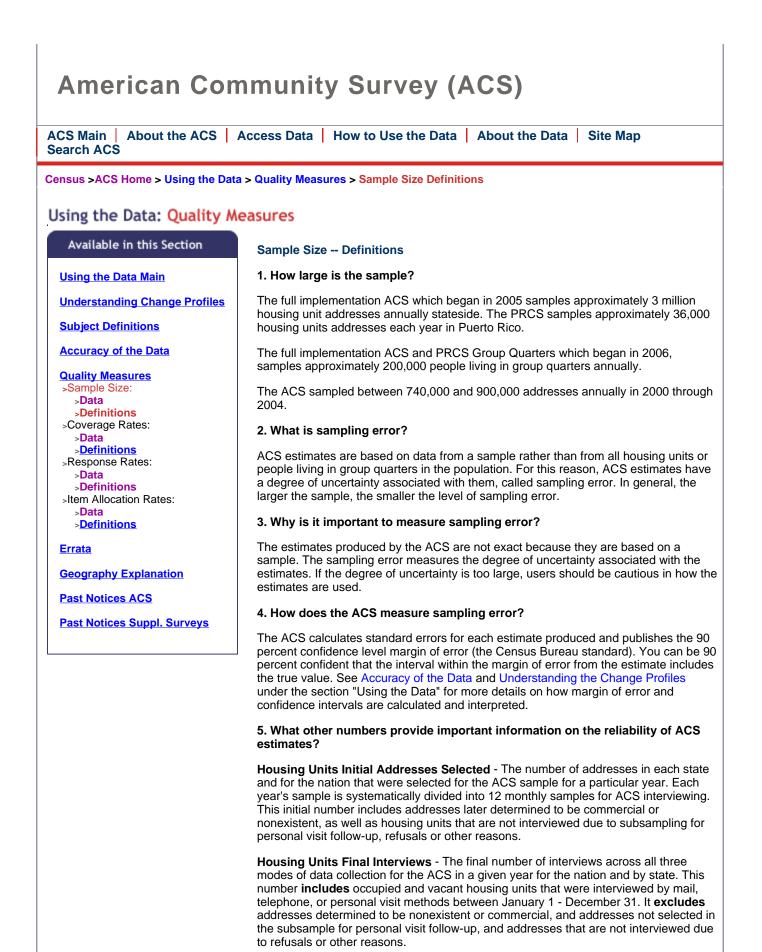




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Hawaii	Sample	Size- Initial Add	resses Selected	and Final Inter	rviews
		Housi	ousing Units Group Qu		arters People
	Year	Initial Addresses Selected	Final Interviews	Initial Sample Selected	Final Interviews
Hawaii	2006	12,054	7,629	833	598
	2006 2005		7,629 7,627	833 N/A	598 N/A
Hawaii		12,054			
Hawaii Hawaii	2005	12,054 12,295	7,627	N/A	N/A
Hawaii Hawaii Hawaii	2005 2004	12,054 12,295 6,560	7,627 4,304	N/A N/A	N/A N/A
Hawaii Hawaii Hawaii Hawaii Hawaii	2005 2004 2003	12,054 12,295 6,560 6,466	7,627 4,304 4,230	N/A N/A N/A	N/A N/A N/A

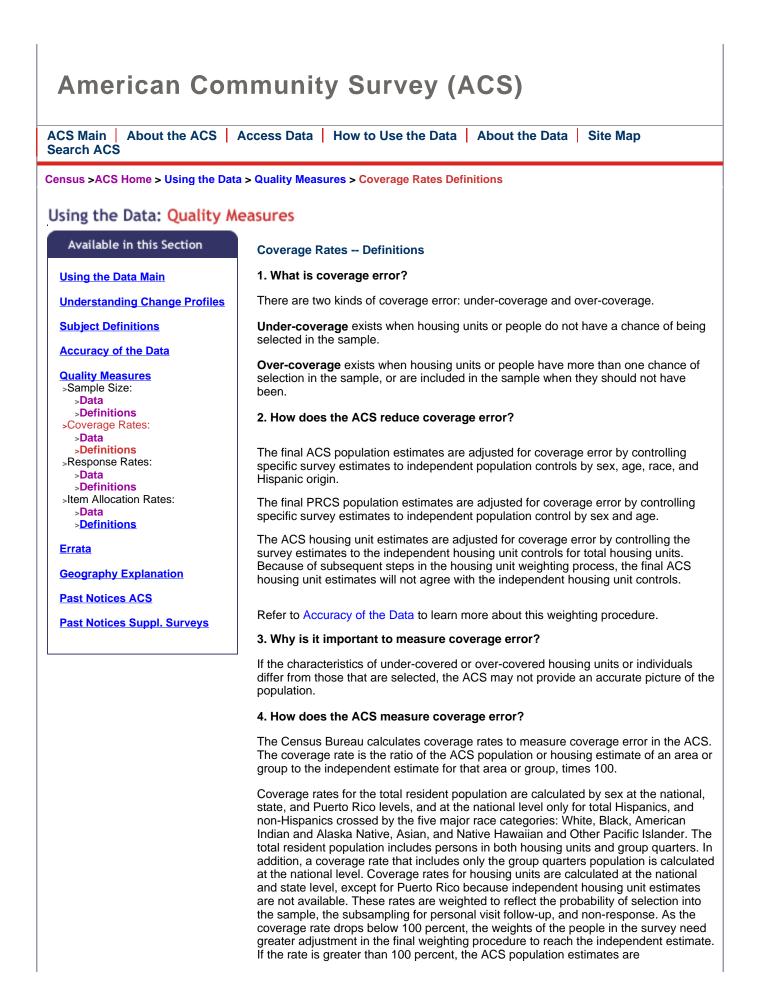
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	GQs that could be contacted for ACS in state. Each year's sample is systematic interviewing. This initial number include were later determined to be out of scop	e Selected - The number of people living in aterviewing in a given year for the nation and by cally divided into 12 monthly samples for ACS is people thought to be in group quarters that e or nonexistent, as well as people not fusing entry, the person refusing to respond, or
		ews - The final number of person interviews for ers in a given year for the nation and by state.
	6. Are these numbers used to calculate	ate the survey response rate?
		used to measure the response to the request to ponse Rates - Definitions for more information.
	7. How does the ACS calculate these	four measures of sample size?
	Housing Units Initial Addresses Selected (state x, year y) =	the sum of the 12 monthly address samples selected from the Master Address File for state x in year y.
	Housing Units Final Interviews (state x, year y) =	the sum of all interviews successfully conducted by mail, telephone, or personal visit between January 1 and December 31 of year y, for state x.
	Group Quarters People Initial Sample Selected (state x, year y) =	the sum of people living in group quarters that we did contact and those we expected to contact over the 12 months for state x in year y.
	Group Quarter People Final Interviews (state x, year y) =	the sum of all interviews successfully conducted by personal visit between January 1 and December 31 of year y, in state x.
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Ising the Data:	Quality Measures				
Quality Measures - Mair	n			Coverage Rates Pick	l ist
Sample Size: Data	Definitions Coverage Rates	: Data Definitions		*	
	Definitions Item Allocation	Pates, Data Definitions		Select a State	Go
	nom / modulon	nutoo.			
			Cover	age Rates (in percent)	
		Housing Units		Total Population ¹	
awaii	Year	Total	Total	Male	Female
awaii	2006	95.7	91.7	90.1	93.3
awaii	2005	96.6	94.9	95.1	94.6
awaii awaii	2004 2003	96.4 97.4	93.0 91.0	92.4 89.8	93.6 92.1
awaii	2003	97.4	96.1	96.5	92.1
		100.8	97.8	96.8	98.8
awaii	2001				

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downweighted to match the independent estimates.

The coverage rates for the total resident population are for 2006 data only. The 2000-2005 rates are for the comparable universes excluding the group quarters population since that population was added to the ACS in 2006.

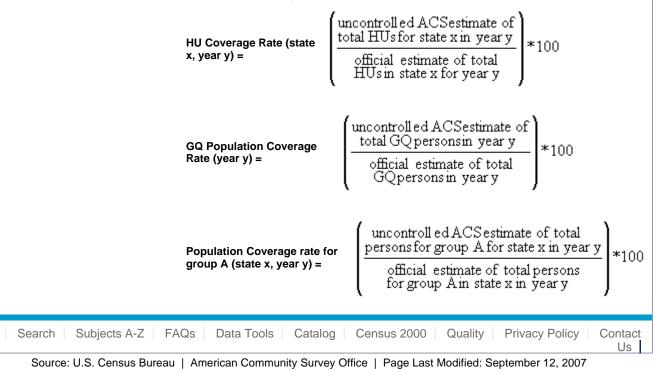
5. What is the independent population estimate?

The Census Bureau uses independent data on housing, births, deaths, immigration, etc. to produce official estimates of the population and housing units each year. The base for these independent estimates is the decennial census counts. The ACS, like all other household surveys, controls some of its most basic estimates to these official estimates to correct for potential over- or under-coverage.

6. What effect does the GQ coverage rate have on the quality of the ACS data?

The national GQ coverage rate for 2006 is 76.2 percent. The estimates could be biased if the 23.8 percent of the GQ population that is not covered by the survey differs from the population that was interviewed. One of the reasons for the low coverage rate is the data collection methodology. Data collection in college / university housing is conducted during the entire year. The number of people in college / university housing during the months of May through August is much lower than the other months because less students attend summer sessions. The population control used in the GQ weighting methodology, however, is based on the Census 2000 reference date of April 1 when most students are attending. One-third of the ACS yearly sample is allocated to these four months of May - August. An examination of the data collected during this period revealed that the population of the GQs visited in these months is not representative of the college / university housing population control. Thus, the ACS coverage rate for the summer months is artificially lower than the other eight months and as a result the overall coverage is too low. Note that if we use the eight nonsummer months for college / university housing and standardize it to reflect the fullyear population (weighting it up by 1.5 to account for the four summer months), the national GQ coverage rate increases to 81.8 percent.

7. How are coverage rates calculated?



Home