



Hispanic and Immigrant Issues in Redistricting

1. Determining Citizen Voting Age Population (CVAP)
[Why CVAP]

2. More generally, getting SES data for small areas

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Decennial Census

In Census 2000, 2 forms were used

1. “short” form – asked for basic demographic and housing information, such as age, sex, race, how many people lived in the housing unit, and if the housing unit was owned or rented by the resident
2. “long” form – collected the same information as the short form but also collected more in-depth information such as income, education, citizenship, and language spoken at home. Only a small portion of the population, received the long form.

The Census Bureau does plan on publishing CVAP data at the block level. Does DOJ?

Subject: 2010 Citizenship voting age population for redistricting?

Q. Does the Census Bureau have any plans to create and release a dataset that will have provide 2010 US citizen voting age population for small geographic areas (block or block group)? I know that the five-year ACS data files will have this information but I am concerned that data collected over five years will underestimate the number of Hispanic citizens who were interviewed by the ACS before they were of voting age but turned 18 before April 1, 2010.

A. No we do not have plans to put out citizenship at the block level. The block group data on citizenship will be limited to the 5 year estimates coming from the ACS. Your point is well taken concerning CVAP.

**Cathy McCully, Chief
Census Redistricting Data Office
06/08/2010**

This is the official form for all the people at this address.
It is quick and easy, and your answers are protected by law.

Use a blue or black pen.

Start here

The Census must count every person living in the United States on April 1, 2010.

Before you answer Question 1, count the people living in this house, apartment, or mobile home using our guidelines.

- Count all people, including babies, who live and sleep here most of the time.

The Census Bureau also conducts counts in institutions and other places, so:

- Do not count anyone living away either at college or in the Armed Forces.
- Do not count anyone in a nursing home, jail, prison, detention facility, etc., on April 1, 2010.
- Leave these people off your form, even if they will return to live here after they leave college, the nursing home, the military, jail, etc. Otherwise, they may be counted twice.

The Census must also include people without a permanent place to stay, so:

- If someone who has no permanent place to stay is staying here on April 1, 2010, count that person. Otherwise, he or she may be missed in the census.

1. How many people were living or staying in this house, apartment, or mobile home on April 1, 2010?

Number of people =

2. Were there any additional people staying here April 1, 2010 that you did not include in Question 1? Mark all that apply.

- Children, such as newborn babies or foster children
- Relatives, such as adult children, cousins, or in-laws
- Nonrelatives, such as roommates or live-in baby sitters
- People staying here temporarily
- No additional people

3. Is this house, apartment, or mobile home — Mark ONE box.

- Owned by you or someone in this household with a mortgage or loan? Include home equity loans.
- Owned by you or someone in this household free and clear (without a mortgage or loan)?
- Rented?
- Occupied without payment of rent?

4. What is your telephone number? We may call if we don't understand an answer.

Area Code + Number
 - -

OMB No. 0607-0019-C: Approval Expires 12/31/2011.

Form D-61 (9-25-2008)

5. Please provide information for each person living here. Start with a person living here who owns or rents this house, apartment, or mobile home. If the owner or renter lives somewhere else, start with any adult living here. This will be Person 1.

What is Person 1's name? Print name below.

Last Name

First Name MI

6. What is Person 1's sex? Mark ONE box.

- Male Female

7. What is Person 1's age and what is Person 1's date of birth? Please report babies as age 0 when the child is less than 1 year old. Print numbers in boxes.

Age on April 1, 2010 Month Day Year of birth

→ NOTE: Please answer BOTH Question 8 about Hispanic origin and Question 9 about race. For this census, Hispanic origins are not races.

8. Is Person 1 of Hispanic, Latino, or Spanish origin?

- No, not of Hispanic, Latino, or Spanish origin
- Yes, Mexican, Mexican Am., Chicano
- Yes, Puerto Rican
- Yes, Cuban
- Yes, another Hispanic, Latino, or Spanish origin — Print origin, for example, Argentinian, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.

9. What is Person 1's race? Mark one or more boxes.

- White
- Black, African Am., or Negro
- American Indian or Alaska Native — Print name of enrolled or principal tribe.

- Asian Indian Japanese Native Hawaiian
- Chinese Korean Guamanian or Chamorro
- Filipino Vietnamese Samoan
- Other Asian — Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on.
- Other Pacific Islander — Print race, for example, Fijian, Tongan, and so on.

- Some other race — Print race.

10. Does Person 1 sometimes live or stay somewhere else?

- No Yes — Mark all that apply.
- In college housing For child custody
- In the military In jail or prison
- At a seasonal or second residence In a nursing home
- For another reason

→ If more people were counted in Question 1, continue with Person 2.

2010 Census Data Items

Age
Sex
Race

Latino Origin
Residence &
HH info

No Citizenship
or SES data

→ NOTE: Please answer BOTH Question 8 about Hispanic origin and Question 9 about race. For this census, Hispanic origins are not races.

8. Is Person 1 of Hispanic, Latino, or Spanish origin?

- No, not of Hispanic, Latino, or Spanish origin
- Yes, Mexican, Mexican Am., Chicano
- Yes, Puerto Rican
- Yes, Cuban
- Yes, another Hispanic, Latino, or Spanish origin — *Print origin, for example, Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.* ↘

9. What is Person 1's race? Mark one or more boxes.

- White
- Black, African Am., or Negro
- American Indian or Alaska Native — *Print name of enrolled or principal tribe.* ↘

- | | | |
|---|--|--|
| <input type="checkbox"/> Asian Indian | <input type="checkbox"/> Japanese | <input type="checkbox"/> Native Hawaiian |
| <input type="checkbox"/> Chinese | <input type="checkbox"/> Korean | <input type="checkbox"/> Guamanian or Chamorro |
| <input type="checkbox"/> Filipino | <input type="checkbox"/> Vietnamese | <input type="checkbox"/> Samoan |
| <input type="checkbox"/> Other Asian — <i>Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on.</i> ↘ | <input type="checkbox"/> Other Pacific Islander — <i>Print race, for example, Fijian, Tongan, and so on.</i> ↘ | |

- Some other race — *Print race.* ↘

P.L. 94-171
Redistricting
Data
will report 63
combinations of
Race for
Hispanic and
non-Hispanics
for a total of 126
data points for
each block.

Guidance on Aggregation and Allocation of Data on Race for Use in Civil Rights Monitoring and Enforcement

1. the five single-race categories;
2. the four most commonly reported combinations of two races: American Indian or Alaska Native *and* White; Asian *and* White; Black or African American *and* White; and American Indian or Alaska Native *and* Black or African American;
3. any other combinations of two or more races that represent more than one percent of the population in a jurisdiction; and
4. the balance reporting more than one race.

The bulletin also suggests rules for allocating multiple race responses when a claim is brought by one racial minority. The rules generally require that the complaining minority be allocated all those who have indicated they are any part of that racial minority.

Guidance Concerning Redistricting and Retrogression Under Section 5 of the Voting Rights Act, 42 U.S.C. 1973c.

In most cases, DOJ will analyze only eight categories of race data:

Hispanic

Non-Hispanic White

Non-Hispanic Black plus Non-Hispanic Black and White

Non-Hispanic Asian plus Non-Hispanic Asian and White

Non-Hispanic American Indian plus Non-Hispanic American Indian + White

Non-Hispanic Pacific Islander plus Non-Hispanic Pacific Islander and White

Non-Hispanic Some Other Race plus Non-Hispanic Some Other Race + White

Non-Hispanic Other multiple-race (where more than one minority race is listed)

The total of these racial groups will add to 100 percent. Most redistricting decisions that consider race will be based on the voting age population, that is, persons age 18 and over.



2010 Census and American Community Survey

- 2010 Census will focus on counting the U.S. population
- The sample data, **including citizenship**, are now collected in the ACS



American Community Survey

Key Differences from Census 2000

- The goal of ACS is to produce data comparable to the Census 2000 long form data
- These estimates will cover the same small areas as Census 2000 but with smaller sample sizes
- Smaller sample sizes for 5-year ACS estimates results in reductions in the reliability of estimates



American Community Survey

Methodology

- Sample includes about 3 million addresses each year (~1% of the US population vs, ~ 16% in Census 2000)
- Three modes of data collection
 - mail
 - phone
 - personal visit
- Data are collected continuously throughout the year



American Community Survey

Period Estimates

- ACS estimates are period estimates, describing the average characteristics over a specified period
- Contrast with point-in-time estimates that describe the characteristics of an area on a specific date
- 1-year, 3-year, and 5-year estimates will be released for geographic areas that meet specific population thresholds



Comparing ACS Data with Census 2000

Global differences exist between ACS and Census data including residence rules, universes, and reference periods.

Comparisons can be made for most population and housing subjects

<http://www.census.gov/acs/www/UseData/compACS.htm>

Valid comparisons need to be determined item by item!

Table 2. Release Schedule for ACS Data

Data product	Population threshold	Year of Data Release							
		2006	2007	2008	2009	2010	2011	2012	2013
		Year(s) of Data Collection							
1-year estimates	65,000+	2005	2006	2007	2008	2009	2010	2011	2012
3-year estimates	20,000+			2005– 2007	2006– 2008	2007– 2009	2008– 2010	2009– 2011	2010– 2012
5-year estimates	All areas*					2005– 2009	2006– 2010	2007– 2011	2008– 2012

*Five-year estimates will be available for areas as small as census tracts and block groups.
Source: U.S. Census Bureau.



Geographic Boundaries

Multiyear estimates are based on geographic boundaries as of January 1 of the last year in the multiyear period

Boundary Annexation Survey collects boundary changes

Boundaries of other statistical areas will be updated every decade in conjunction with the decennial census



Estimates

ACS data are estimates

ACS data are not counts of the population or housing

Population counts are produced from the decennial census

- Counts are updated throughout the decade through the Population Estimates Program

Population Thresholds for ACS Estimates

	1-year estimates	3-year estimates	5-year estimates
65,000 + people	X	X	X
20,000+ people		X	X
Less than 20,000 people			X



Constructing Multiyear Estimates

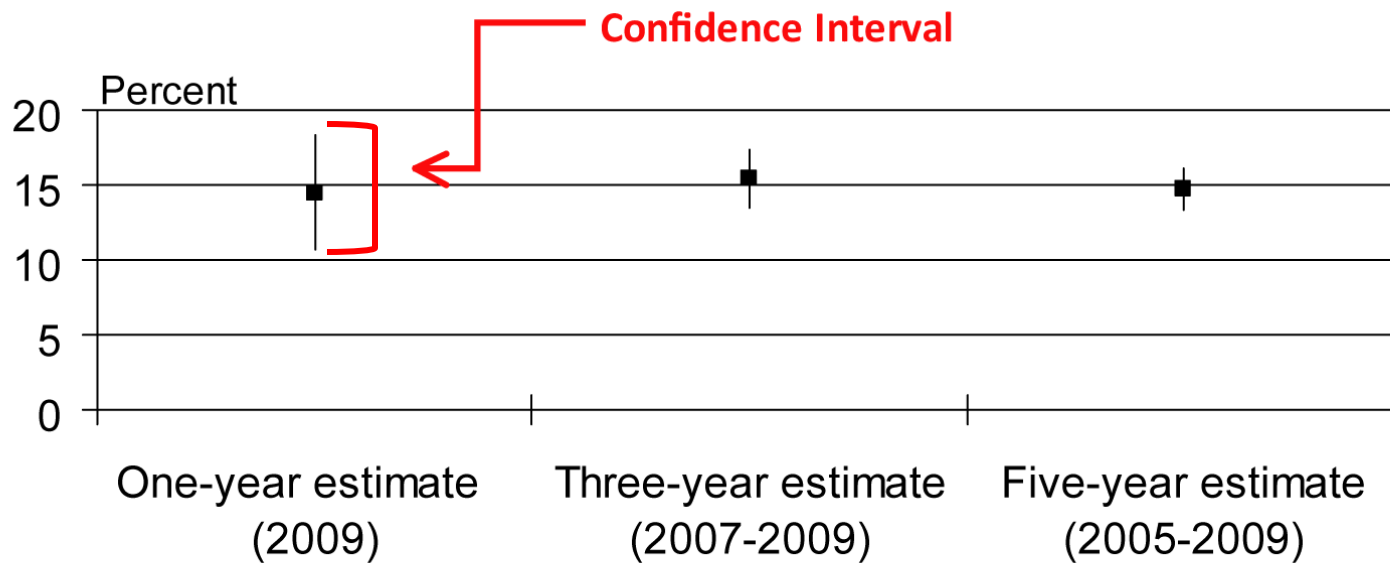
Data are pooled across 36 or 60 months

Data are weighted to produce estimates

Estimates are controlled for age, sex, race, and
Hispanic origin

Multiyear estimates are not an average of
1-year estimates

Reliability



Note: Fictional data



Inflation Adjustment

Dollar-valued data items are inflation adjusted to the most recent year for the period

Income, rent, home value, and energy costs

Adjusted using inflation factors based on the Consumer Price Index (CPI)

Adjustment designed to put the data into dollars with equal purchasing power



Population Controls

Estimates of housing units and people are controlled to the population estimates derived from the Population Estimates Program

Multiyear estimates are controlled to the average of the individual year's estimates for the period



Comparing Across Geographies

Only compare the same type of estimate ??????

- 1-year estimates to other 1-year estimates
- 3-year estimates to other 3-year estimates
- 5-year estimates to other 5-year estimates

Note: The comparisons are for the same time period.

This undermines the procedure I had in mind to compare the 5-year block group estimates to 1-year ACS data for the larger ACS area which

- contained the block groups.



Comparing Across Time Periods

Same geographic area

- Use caution if geographic boundaries have changed over time
- Easier to compare non-overlapping periods
- Make comparisons using the same length time period



Table 1 -- Illustration of potential impact of five-year cumulative sample for ACS Block Group Data based on national ACS estimate for Latinos

United States	Population Estimate	Percent of total population	Citizenship percentage of category	Number of all Latino citizens
Total population	44,019,880	100%		
0-18	14,966,759	34%	90%	13.5 M
13 to 17 years	3,774,020	9%		3.4 M
18 and above	27,307,241	66%	62%	18.0 M

The American Community Survey (ACS) Microdata

Public Use Microdata Sample files contain a sample of individual housing unit and person records from the census, along with sample weights.

Microdata sample files are also currently available for the 1996-1998 and 2000-2001 ACS data. The technical documentation, record layout, geographies, and content will not be same! But the same principles for generating custom tabulations will hold true.

ACS sample sizes are much smaller. Expect a tradeoff in accuracy vs. timeliness when deciding whether to use decennial or ACS PUMS data.

Why Use PUMS?

Summary vs. detail information

Predefined tables vs. custom tabulations

Restricted variables vs. full range of available responses

Greatest possible detail while still ensuring confidentiality



Conclusions

The best small area estimates of CVAP will combine
2010 PL data, 2009 and/or 2010
ACS PUMS and 2009 and/or 2010 AVCS Block
group data

More generally, ACS block group data are probably
reliable sources for small area (block) SES data ,
This needs to be evaluated item-by-item.