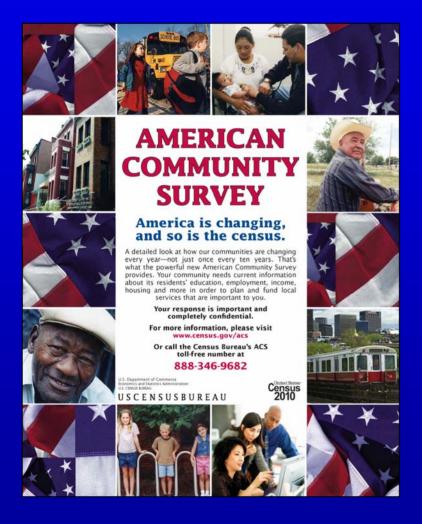
# The American Community Survey: Update

# **Nancy Torrieri**

American Community Survey Office U.S. Census Bureau

October 18, 2007

# The American Community Survey (ACS):



Takes the place of the decennial census long form

Fully implemented for household and group quarters population

Data products are now available

# Purpose of the ACS

- Restructure & Simplify the 2010 Census
- Produce more current data than available previously

# **ACS Operations**

- Three month data collection period
- Three modes of data collection
  - Mail
  - Computer Assisted Telephone Interview (CATI)
  - Computer Assisted Personal Interview (CAPI)
- Data are confidential
- Response required by law
- Assistance available by telephone, and in languages other than English

## Information collected in the ACS

- Age & relationship
- Grandparents responsible for grandchildren
- Disability
- Language spoken at home & English fluency
- Income
- Housing costs

# **Preparing for ACS**

Web Site: http://www.census.gov/acs/www/

Data Release Schedule

**Data Products** 

Information and Education

Use of Margin of Error

Multiyear (period) estimates

Comment on proposed data products

Provide input to education materials

Use the data

### Release Schedule for ACS Data Products

Data	Population- Threshold	Year of Data Release							
Product		2006	2007	2008	2009	2010	2011	2012	2013
Fibuuct		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	ΑΠ Διο 26					2005- 2009	2006- 2010	2007- 2011	2008- 2012

Data products are released in the year following the single-year or multi-year period in which data are collected.

### **2006 ACS Data Products**

### Aug. 28, 2007:

Income, earnings and poverty data

### Sept. 12, 2007:

 Social, economic, and housing characteristics; demographic and housing estimates; Public Use Microdata Sample (PUMS) File; data profiles; geographic comparison tables; ranking tables; narrative profiles

### Sept. 27, 2007:

Selected Population Profiles; Workplace Base Tables;
 Group Quarters Data Profiles

### 2006 ACS

Included group quarters for the first time

Group quarters population is 2.7% of the total population

adding these data makes a difference

Comparable to Census 2000

Caution when comparing 2006 ACS to earlier years

# **Group Quarters**

- Two types of group quarters:
  - 1. Institutional for example, correctional facilities, nursing homes, and mental hospitals
  - 2. Non-institutional for example, college dormitories, military barracks, group homes, missions, and shelters
- Group Quarters Population includes all people not living in households
  - This term includes those people residing in group quarters as of the date the ACS was conducted

# **Institutional Group Quarters**

Includes facilities for people under formally authorized, supervised care or custody at the time of interview

- Adult Correctional Facilities
- Nursing/Skilled Nursing Facilities
- In-patient Hospice Facilities
- Mental (Psychiatric Hospitals)
- Group Homes for Juveniles
- Residential Treatment Centers for Juveniles

# **Noninstitutional Group Quarters**

# Includes facilities that are not classified as institutional group quarters

- College/University Housing
- Group Homes Intended for Adults
- Residential Treatment Facilities for Adults
- Workers' Group Living Quarters
- Job Corps Centers
- Religious Group Quarters

# **Seven Main Types of Group Quarters**

- Adult Correctional Facilities
- Juvenile Facilities
- Nursing/Skilled Nursing Facilities
- Other Healthcare Facilities (i.e. Hospice)
- College/University Housing
- Military Quarters
- Other Noninstitutional Group Quarters (i.e.Group Homes for Adults)

## 2006 Group Quarters Data

National level Selected Population Profiles describing the group quarters population

- Characteristics of the total group quarters population
- Characteristics broken out by institutional and noninstitutional group quarters populations

## 2006 Group Quarters Data

# National characteristics for the three largest types of facilities

- Adult Correctional Facilities
- Nursing/Skilled Nursing Facilities
- College/University Housing

### Characteristics for selected sub-national areas

- 9 Census Divisions
- 35 States
- Puerto Rico

# **Selected Population Profiles**

Data profiles for nearly 200 selected race, Hispanic origin, and ancestry groups

Data profiles for population groups of interest

- The Native and Foreign-Born Populations
- The Population 65 Years and Over
- Children
- Workers 16 Years and Over

Selected Population Profiles allow easy comparison between selected population and the United States

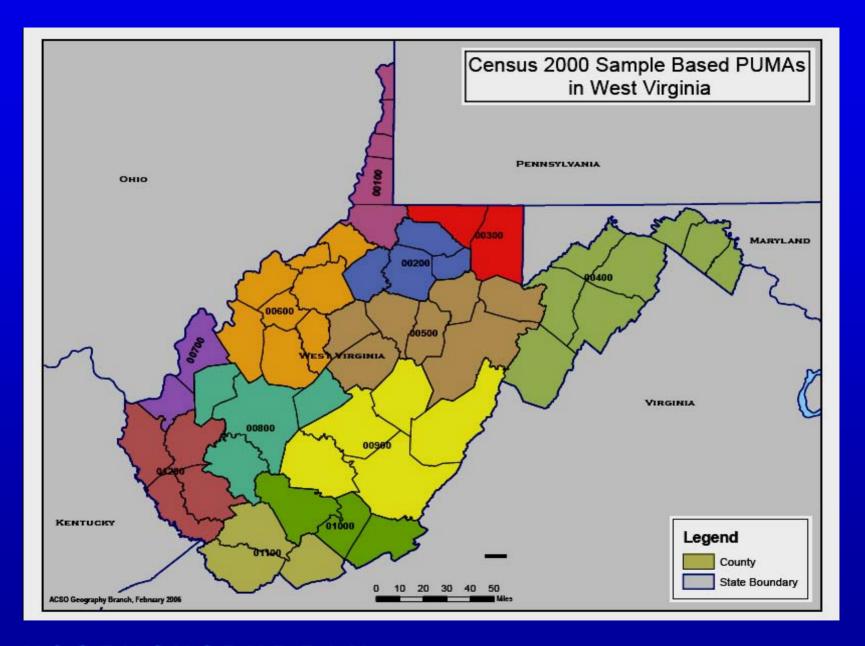
# 2006 Geographic Areas

Type of Legal, Administrative, or Statistical Area	Number included in 2006 ACS for the United States	Number included in 2006 PRCS for Puerto Rico	Percent of All Such Areas Covered in 2006
Nation	1		100%
States (including DC & Puerto Rico)	51	1	100%
Census Regions & Census Divisions	13		100%
Congressional Districts	436	1	100%
Urban/Rural State Components (excluding DC)	50	1	100%
Public Use Micro Data Sample Areas (PUMAs)	2,068*	30	100%

<sup>\*</sup> There are a total of 2,071 PUMAs, but due to the population displacement in the New Orleans area following Hurricane Katrina, Louisiana PUMAs 1801, 1802, & 1905 no longer meet the 65,000 population threshold necessary for single-year estimates.

# **2006 Geographic Areas**

Type of Legal, Administrative, or Statistical Area	Number included in 2006 ACS for the United States	Percent of All Such Areas	Number included in 2006 PRCS for Puerto Rico	Percent of All Such Areas Covered in 2006
Metropolitan, Micropolitan & Combined Statistical Areas	630	59%	11	69%
Counties & Municipios	783	25%	12	15%
School Districts	922	7%	1	100%
Places	504	2%	7	3%
American Indian & Alaska Native Areas	14	2%		
Alaska Native Regional Corporation	3	%		
Minor Civil Divisions USCENSUSBUR	187 E A U ———	2 %		



## **ACS Data Products**

- Detailed Tables
- Single Year & Narrative Profiles
- Ranking Tables
- Public Use Microdata Sample Files (PUMS)
- Thematic Maps
- Subject Tables
- Selected Population Profiles
- Geographic Comparison Tables
- Group Quarters Profile by Type (national level)

# Interpreting the Data: Three Factors to Consider

- Interview and residence rules
- Time periods
- Reference periods

## **ACS Universe**

- Total resident population of the United States and Puerto Rico
  - Includes both household population and group quarters population
- Group Quarters population added to sample in 2006
- Current resident

### **Residence Rules**

- Resident of an address if a person
  - Lives there year round
  - Lives there more than 2 months but not year round
  - Is living there now with no other place to live
  - Is away now for 2 months or less
- Not a resident of an address if a person
  - Lives there 2 months or less with another residence
  - Is away now for more than 2 months

### **ACS Produces Period Estimates**

- They describe the characteristics of an area over a specific time period
- Contrast with point-in-time estimates that describe the characteristics of an area on a specific date

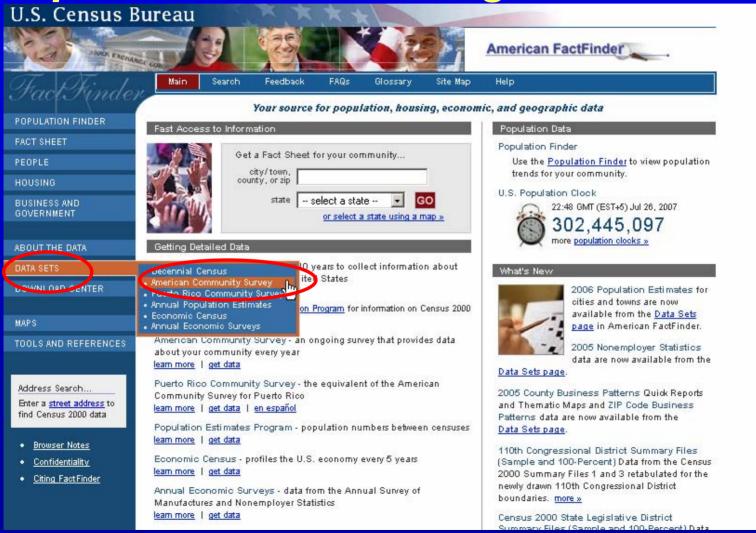
## Reference Periods

- ACS uses the interview date as the single reference point, or as the end of a reference period, for all data collection
  - No specific reference period
  - Reference period relative to interview date

# **Data Comparisons**

- If comparing 2006 ACS data with data from previous years:
  - Group quarters population <u>not</u> included in the sample before 2006
  - Use guidance provided on ACS web site

# Accessing the Data http://factfinder.census.gov



### Data Sets: 2006 ACS



Rico Community Survey. The 2006 data products include estimates of demographic, social, and economic characteristics of people, households and housing units (both occupied and vacant) for every state in the Nation, Puerto Rico, and most areas with a population of 65,000 or more.

2006 Quick Guide | Important Notes About Using the Data

DOWNLOAD CENTER

Surveys

MAPS

TOOLS AND REFERENCES

Includes results from both the American Community Survey and the Puerto Rico Community Survey. The 2005 data products include estimates of demographic, social, and economic characteristics of people, households and housing units (both occupied and vacant) for every state in the Nation, Puerto Rico, and most areas with a population of 65,000 or more.

2005 Quick Guide | Important Notes About Using the Data

Ranking Tables

Subject Tables

**Detailed Tables** 

Geographic Comparison Tables

Thematic Maps

Reference Maps

Custom Table

Enter a table number

List all tables List all maps

About this data set

C 2005 American Community Survey

2005

### **Data Profiles**



### United States

ACS Demographic and Housing Estimates: 2006 
Data Set: 2006 American Community Survey
Survey: 2006 American Community Survey

Social - Education, Marital Status, Relationships, Fertility, Grandparents...

<u>Economic</u> - Income, Employment, Occupation, Commuting to Work...

<u>Housing</u> - Occupancy and Structure, Housing Value and Costs, Utilities...

<u>Demographic</u> - Sex and Age, Race, Hispanic Origin, Housing Units...

<u>Narrative</u> - Text profile with graphs for easy analysis...

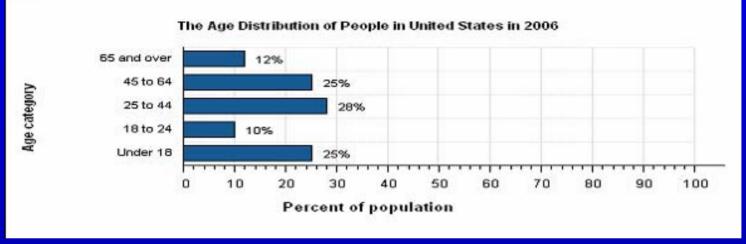
NOTE. Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the <u>official estimates of the population for the nation, states, counties, cities and towns</u> and estimates of housing units for states and counties.

For more information on confidentiality protection, sampling error, nonsampling error, and definitions, see <u>Survey Methodology</u>.

ACS Demographic and Housing Estimates: 2006	Estimate	Margin of Error
Total population	299,398,485	*****
SEX AND AGE		
Male	147,434,940	+/-20,867
Female	151,963,545	+/-20,868
Under 5 years	20,385,773	+/-16,155
5 to 9 years	19,748,765	+/-55,552
10 to 14 years	20,678,265	+/-51,043
15 to 19 years	21,697,322	+/-31,241
20 to 24 years	20,955,536	+/-31,780
25 to 34 years	39,905,599	+/-37,861
35 to 44 years	43,892,631	+/-26,397
45 to 54 years	43,325,361	+/-31,017
55 to 59 years	18,049,153	+/-41,577
60 to 64 years	13,569,076	+/-39,917
65 to 74 years	18,936,686	+/-14,672
75 to 84 years	13,247,540	+/-30,300
85 years and over	5,006,778	+/-28,295

# Narrative Profile

POPULATION OF United States: In 2006, United States had a total population of 299.4 million - 152.0 million (51 percent) females and 147.4 million (49 percent) males. The median age was 36.4 years. Twenty-five percent of the population was under 18 years and 12 percent was 65 years and older.



# Ranking Tables



### United States and States

R1205. Median Age at First Marriage for Women: 2006

Universe: Female population @

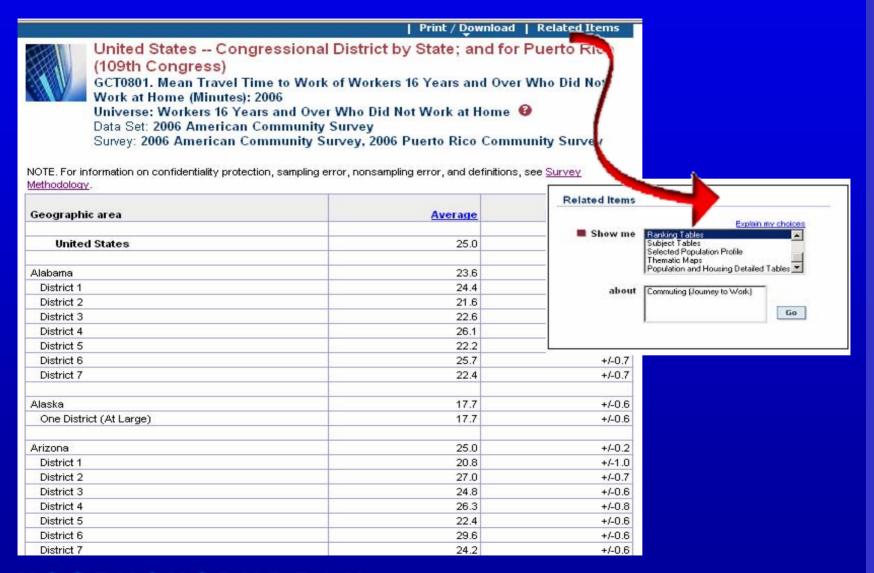
Data Set: 2006 American Community Survey

Survey: 2006 American Community Survey, 2006 Puerto Rico Community Survey

NOTE. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see <u>Survey Methodology</u>.

Rank ↓	State U	Median	Margin of Error
1	District of Columbia	29.5	+/-1.0
2	Massachusetts	27.7	+/-0.4
2	New York	27.7	+/-0.3
4	Hawaii	27.6	+/-1.0
4	New Jersey	27.6	+/-0.3
6	Delaware	27.2	+/-0.9
7	New Hampshire	27.1	+/-0.8
8	Connecticut	27.0	+/-0.5
9	Vermont	26.9	+/-0.8
10	Maryland	26.8	+/-0.3
10	Rhode Island	26.8	+/-0.7
12	Maine	26.7	+/-0.7
12	Pennsylvania	26.7	+/-0.3
14	Michigan	26.5	+/-0.3
15	Illinois	26.4	+/-0.3
16	South Carolina	26.3	+/-0.3
17	California	26.2	+/-0.2
18	Ohio	26.0	+/-0.2
18	Virginia	26.0	+/-0.3
18	Wisconsin	26.0	+/-0.2
	United States	25.9	+/-0.2
21	Alaska	25.9	+/-1.1

# Geographic Comparison Tables



### http://factfinder.census.gov/home/en/acs\_pums\_2006.html

### PUMS Data and Documentation:

▶ 2006

2005

2004

2003 2002

2001

2000

The **Public Use Microdata Sample** files, or PUMS, are a sample of the actual responses to the American Community Survey and include most <u>population and housing characteristics</u>. These files provide users with the flexibility to prepare customized tabulations and can be used for detailed research and analysis. Files have been edited to protect the confidentiality of all individuals and of all individual households. For an overview of the file, please see the American Community Survey PUMS overview.

The 2006 PUMS files include the total population including those living in institutions, college dormitories, and other group quarter facilities.

### Download 2006 PUMS Data

Select a data type, data format, and state. Click 'GO'.

### Data Type

- Population Records
- Housing Records

### **Data Format**

- CSV (comma separated values)
- C PC SAS Data Set
- O UNIX SAS Data Set

### State

United States



### Documentation

- Subjects available in PUMS files
- 2006 PUMS top coded values
- · 2006 PUMS Code Lists

#### Ancestry

Geographic Equivalency Files:

- One-Percent PUMA
- Five-Percent PUMA

Group Quarters

Hispanic Origin

Industry

Language

Migration

Migration PUMA

Occupation

Place of Birth

Place of Work

Place of Work PUMA

Race 1 (9 categories)

Race 2 (67 categories)

Race 3 (72 categories)

- 2006 PUMS Accuracy (PDF 411 KB)
- 2006 Data Dictionary (PDF 114 KB)

### 2006 Guide to Data Products



### http://www.census.gov/acs

#### **Key Dates**

#### August 28, 2007 Release of ACS income. earrings and poverty data

#### September 12, 2007 Release of ACS social. ecosomic and housing characteristics, demographic

and housing estimates, and Public Use Microdata Samples (PUMS) data

#### September 27, 2007

Release of ACS group quarters and selected population profles/tables by race, Hispanic origin and ancestry

#### August 28, 2007

Federal Register Notice for the 2007 Data Products.

April 1, 2010

2010 Census Day

#### ACS Alerts

Alert 54 - released 9/21/2007 Archives >

#### Contact Us

Cortact the American Community Survey Office by email or by phone at 1-888-456-7215, or visit ask census gov for further information on the American Community Survey.

#### WHAT IS IT? -

America is changing, and so is the census. The American Community Survey lets communities see how they are changing - filling in the gaps between each 10-year census.

- is sent to a small percentage of our gopulation on a rotating basis;
- helps determine how more than \$300 billion per year is distributed:
- · informs decisions on policies, programs, and services for communities;
- is also conducted in Puerto Rico, where it is called the Puerto Rico Community Survey.

### HIGHLIGHTS

#### 2006 ACS Data Products

- American FactFinder Data Available Starting August 28th
- . FTP Access our FTP site for table shells and data
- 2006 Guide to the Data Products Detailed Tables with table shells
- Guidance on Comparing 2006 ACS Data to other Data Sources
- Questions and Answers about the 2006 ACS (PDF).

#### What's Different for 2006

- Many 2006 Data Products are now available for the Total Population
- Changes to the 2006 ACS Data Profiles and Ranking Tables
- Line by Line changes to the 2006 Data Products [.xis]

### Looking Ahead

- 2010 Census
- 2008 Questionnaire
- Mutiyear estimate products

#### Technical Products

- Quality Measures Information on steps taken to ensure that ACS survey data are accurate and
- Errata Updates made to the data due to found errors.
- 2006 ACS Data Jser's Handbook Information covering a broad set of topics relating directly to the
- Subject Definitions Definitions on occulation and housing variables to help you understand the results of the ACS
- ACS Design and Methodology Paper (PDF 7.4Mb) A comprehensive description of the methods and procedures currently used in the survey.

#### News Releases

- September 27th, 2007 Census Bureau Releases New Data on Residents of Adult Correctional Facilities, Nursing Homes and Other Group Quaters.
- September 27th 2007 Spanish Version -- Census Bureau Releases New Data on Residents of Adult Correctional Facilities. Nursing Homes and Other Group Duarters
- September 24th, 2007 Media Advisory -- An In-Depth Look at the Maricopa Region's Fast Growing and Changing Population

more News Releases »

News Media Tool Kit

#### Questionnaire -

The survey questionnaires are examples of the forms that we send to sample addresses.

### Language Brochures

Information about the American Community Survey is available in the following languages IPDFI:

- English (en):
- · 中文 (h) · 한국어 (ko)
- руссий (ru)
- " En español (es)
- Wit how (vi)

#### - Tool Kits -

- News Media Tool 10t
- Congressional Took Kit under revision
- " A Hardbook for State and Local Officials - under revision (PDF

### **Detailed Tables**

You are here: Main ▶ Data Sets ▶ Data Sets with Detailed Tables ▶ Geography ▶ Tables ▶ Results

Use the links above to change your results

Options | Print / Download | Related Items

B08014, SEX OF WORKERS BY VEHICLES AVAILABLE - Universe: WORKERS 16 YEARS AND **OVER IN HOUSEHOLDS** 

Data Set: 2006 American Community Survey Survey: 2006 American Community Survey

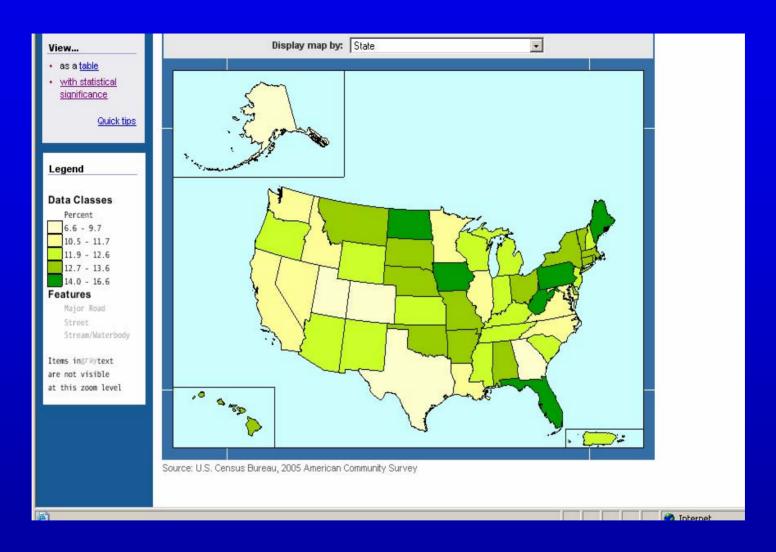
NOTE. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

View the collapsed version of this table. Geographies missing from this table are listed below the table.

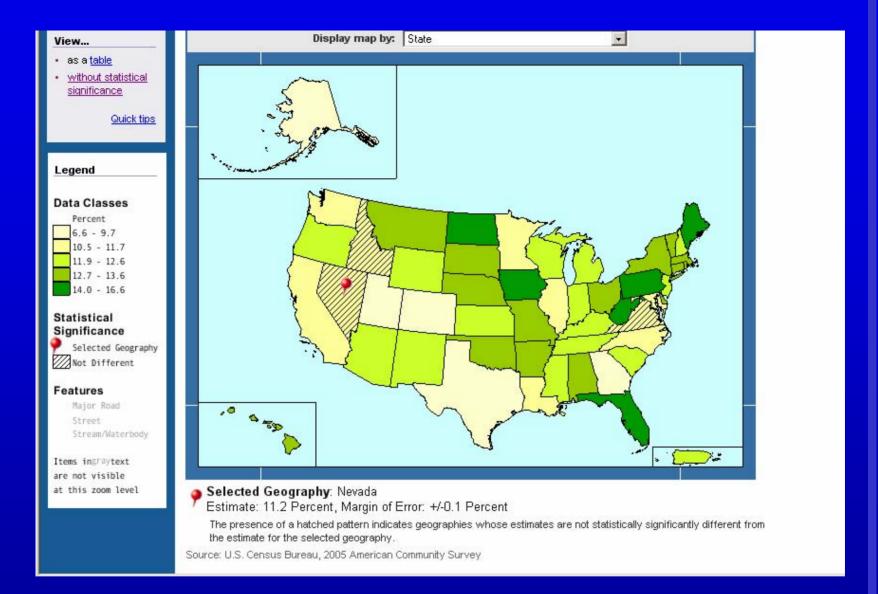
	Baltimore County, Maryland		
	Estimate	Margin of Error	
Total:	397,086	+/-5,290	
No vehicle available	11,867	+/-2,421	
1 vehicle available	86,681	+/-6,332	
2 vehicles available	175,932	+/-8,004	
3 vehicles available	83,388	+/-4,991	
4 vehicles available	28,291	+/-4,211	
5 or more vehicles available	10,927	+/-2,710	
Male:	201,939	+/-3,281	
No vehicle available	5,553	+/-1,336	
1 vehicle available	36,935	+/-3,350	
2 vehicles available	93,163	+/-4,461	
3 vehicles available	44,682	+/-3,011	
4 vehicles available	15,907	+/-2,462	
5 or more vehicles available	5,699	+/-1,561	
Female:	195,147	+/-4,042	
No vehicle available	6,314	+/-1,622	
1 vehicle available	49,746	+/-3,967	
2 vehicles available	82,769	+/-4,621	
3 vehicles available	38,706	+/-2,820	
4 vehicles available	12,384	+/-2,063	
5 or more vehicles available	5,228	+/-1,360	

Source: U.S. Census Bureau, 2006 American Community Survey

### Margin of Error



M0103. Percent of the Total Population Who Are 65 Years and Over: 2005
Universe: Total population
Data Set: 2005 American Community Survey



M0103. Percent of the Total Population Who Are 65 Years and Over: 2005
Universe: Total population
Data Set: 2005 American Community Survey

#### **Looking Ahead to 2008**

New and modified ACS Content

Data product and education plans

# Proposed Changes to 2008 ACS Content

Revisions to several questions based on testing

**New questions** 

•	Is this person CURRENTLY covered by the following types of health insurar health coverage plans? Mark "Yes" or EACH type of coverage in items a-h.	nce or	
	a. Insurance through a current or former employer or union (of this person or another family member)	Yes	No
	b. Insurance purchased directly from an Insurance company (by this person or another family member)		
	c. Medicare, for people 65 and older, or people with certain disabilities		
	<ul> <li>d. Medicald, Medical Assistance, or any kind of government-assistance plan for those with low incomes or a disability</li> </ul>	0	
	e. TRICARE or other military health care		
	f. VA (Including those who have ever used or enrolled for VA health care)	0	
	g. Indian Health Service	$\cup$	
	h. Any other type of health insurance or health coverage plan – Specify		

20	In the PAST 12 MONTHS did this person get –
	Yes No
	a. Married?
	b. Widowed?
	c. Divorced?
3	How many times has this person been married?  Once Two times Three or more times
2	In what year did this person last get married?
T	Year

2	0	a.	Does this person have a VA service-connected disability rating?
			Yes (such as 0%, 10%, 20%,, 100%)
			No → SKIP to question 28
		b.	What is this person's service-connected
			disability rating?
			0 percent
			10 to 20 percent
			30 to 40 percent
			50 to 60 percent
			70 percent or higher

## **Content Modifications**

Œ	Answer questions 15 and 16 ONLY IF this is 5 years old or over. Otherwise, SKIP to questions for PERSON 2 on page 10.		n
1	Does this person have any of the foll long-lasting conditions:	owing	,
	a. Blindness, deafness, or a severe vision or hearing impairment?	Yes	No
	<ul> <li>A condition that substantially limits one or more basic physical activities such as walking, climbing stairs,</li> </ul>		
	reaching, lifting, or carrying?		
d	Because of a physical, mental, or em condition lasting 6 months or more, this person have any difficulty in doi of the following activities:	does	
	a. Learning, remembering, or concentrating?	Yes	No
	b. Dressing, bathing, or getting around inside the home?		П

•	a. Is this person deaf or does he/she have serious difficulty hearing?  Yes No b. Is this person blind or does he/she have serious difficulty seeing even when wearing glasses? Yes No
•	Answer question 17a if this person is 5 years old or over. Otherwise, SKIP to the questions for Person 2 on page 11.
4	a. Because of a physical, mental, or emotional condition, does this person have serious difficulty concentrating, remembering, or making decisions?  Yes  No
	b. Does this person have serious difficulty walking or climbing stairs?  Yes No c. Does this person have difficulty dressing or bathing?  Yes No

2007 Content

2008 Content

# Data Product and Education Plans: Strategy

## Finalize data products and data release schedule early

- Identify resources and requirements
- Seek input on plans

## Develop a comprehensive educational campaign

- Provide for stakeholder input
- Result in a suite of educational materials

# **Outreach and Planning for Multiyear Estimates**

Federal Register Notice

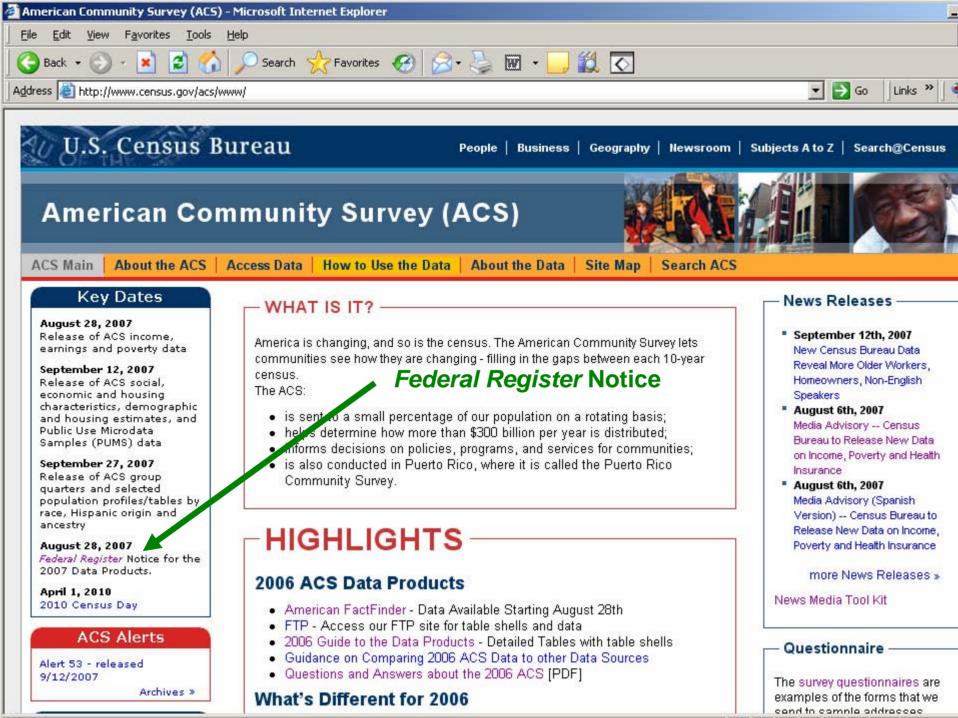
### **Engaging Stakeholders**

- Workshop to review Federal Register comments
- Workshop to review educational materials

### Federal Register Notice

Described proposed data products for 3year and 5-year estimates

Comment period closed Sept. 27



#### Census Bureau Plans for ACS Data Products and Releases for 1-Year, 3-Year, and 5-Year periods

#### Section 1: Proposed Release Schedule for the American Community Survey (ACS) and the Puerto Rico Community Survey (PRCS)

The table below highlights the proposed milestone dates associated with the 1-year, 3-year, and 5-year products to be released in 2008 through 2012. Descriptions and examples of the data products referenced here are in Section 2 of this document.

Type of estimates	Subjects (see note below)	Product Types	Release Approach
1-year Period Estimates	Income and Poverty estimates only	<ul> <li>Detailed Tables</li> <li>Subject Tables</li> <li>Ranking Tables</li> <li>Geographic Comparison Tables</li> <li>Thematic Maps</li> </ul>	Annually in August     Began in 2006 for the 2005 1-Year Period Estimates     PRCS data also released separately in Spanish
1-year Period Estimates	All remaining subjects	All product types described below.     Comparison Profile – first one will be released in 2008 comparing estimates from 2007 to 2006 estimates	Annually in September     Began in 2006 for the 2005 1-Year Period     Estimates     PRCS data also released separately in Spanish
3-Year Period Estimates	All subjects	<ul> <li>All product types described below except Ranking Tables.</li> </ul>	<ul> <li>Annually in the Fall</li> <li>Begins in Fall of 2008 with the 2007 3-Year</li> <li>Period Estimates</li> <li>PRCS data also released separately in Spanish</li> </ul>
5-year Period Estimates	All subjects	<ul> <li>All product types described below except Ranking Tables.</li> </ul>	<ul> <li>Annually before the end of December</li> <li>Begins in 2010 with the 2005-2009 period         Estimates     </li> <li>PRCS data also released separately in Spanish</li> </ul>
Other 5 Year Period Estimate based Products			
American Indian Summary File	All subjects	Detailed Tables, Data Profiles, and Subject Tables	Every 5 years     Begins in 2012 with the 2006-2010 Period     Estimates

### **Engaging Stakeholders**

#### November 2007 Workshop

- Invited participants representing various data user communities
- Review and consider Federal Register comments

Outcome of workshop: develop requirements and specifications for products that include stakeholder recommendations

### **Education Campaign**

#### Assess stakeholder needs for education

- Work with stakeholders to address issues related to data user education
- Develop handbooks and related materials

#### May 2008 workshop

- Review prototype data user materials
- Determine revisions and refinements required

#### **Next Summer**

### July 2008

Materials are finalized

#### August/September 2008

 Dissemination of education materials concurrent with the beginning of the 2007 ACS data release

#### For More Information

American Community Survey Office 1-888-346-9682

> www.census.gov/acs/www cmo.acs@census.gov

#### **ACS Alert**

http://www.census.gov/acs/www/Special/Alerts.htm

Nancy Torrieri, Ph.D. (301)763-3602 nancy.k.torrieri@census.gov