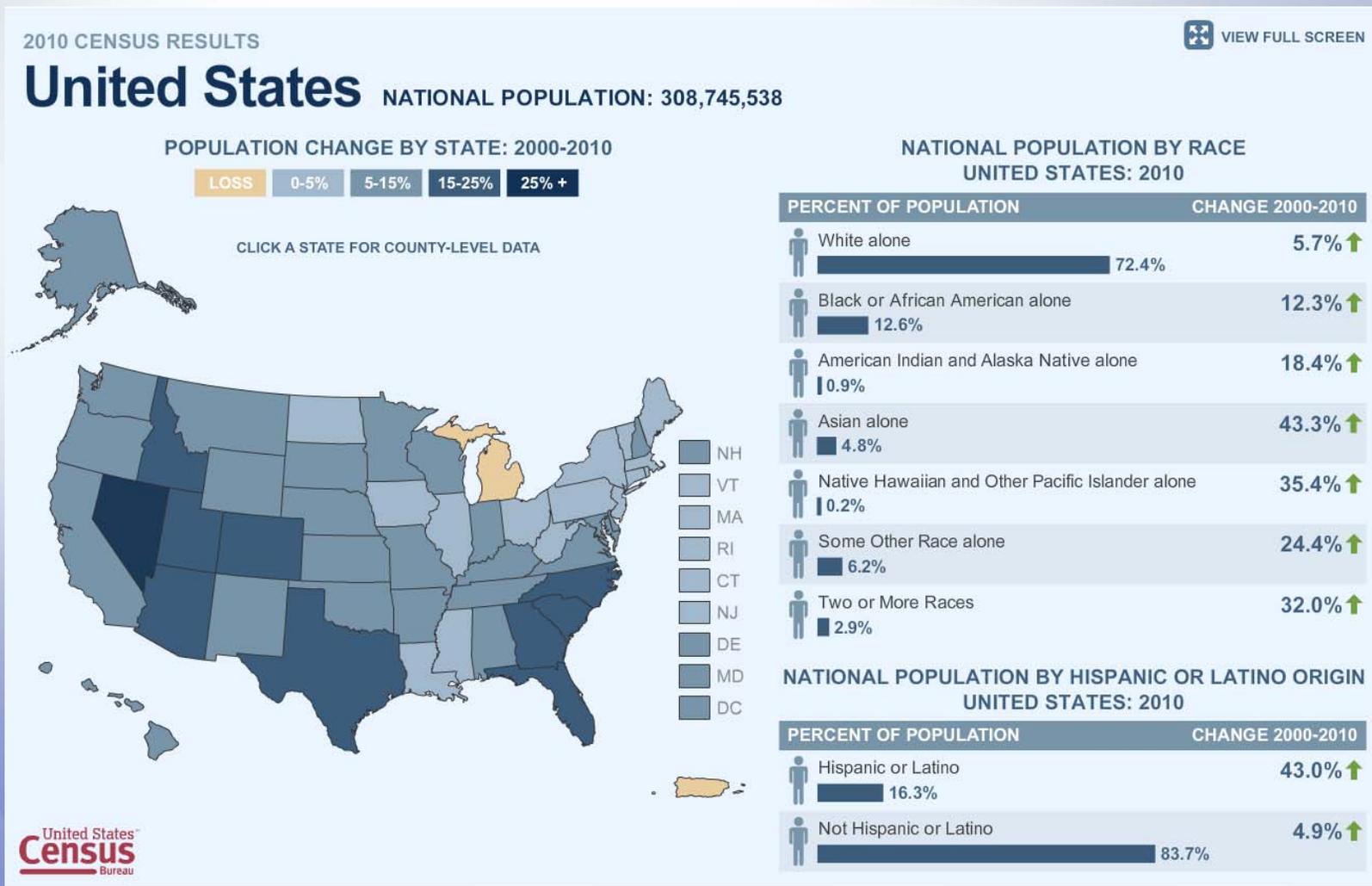


Census 2010 highlights and data resources

Eric W. Kramer, PAG

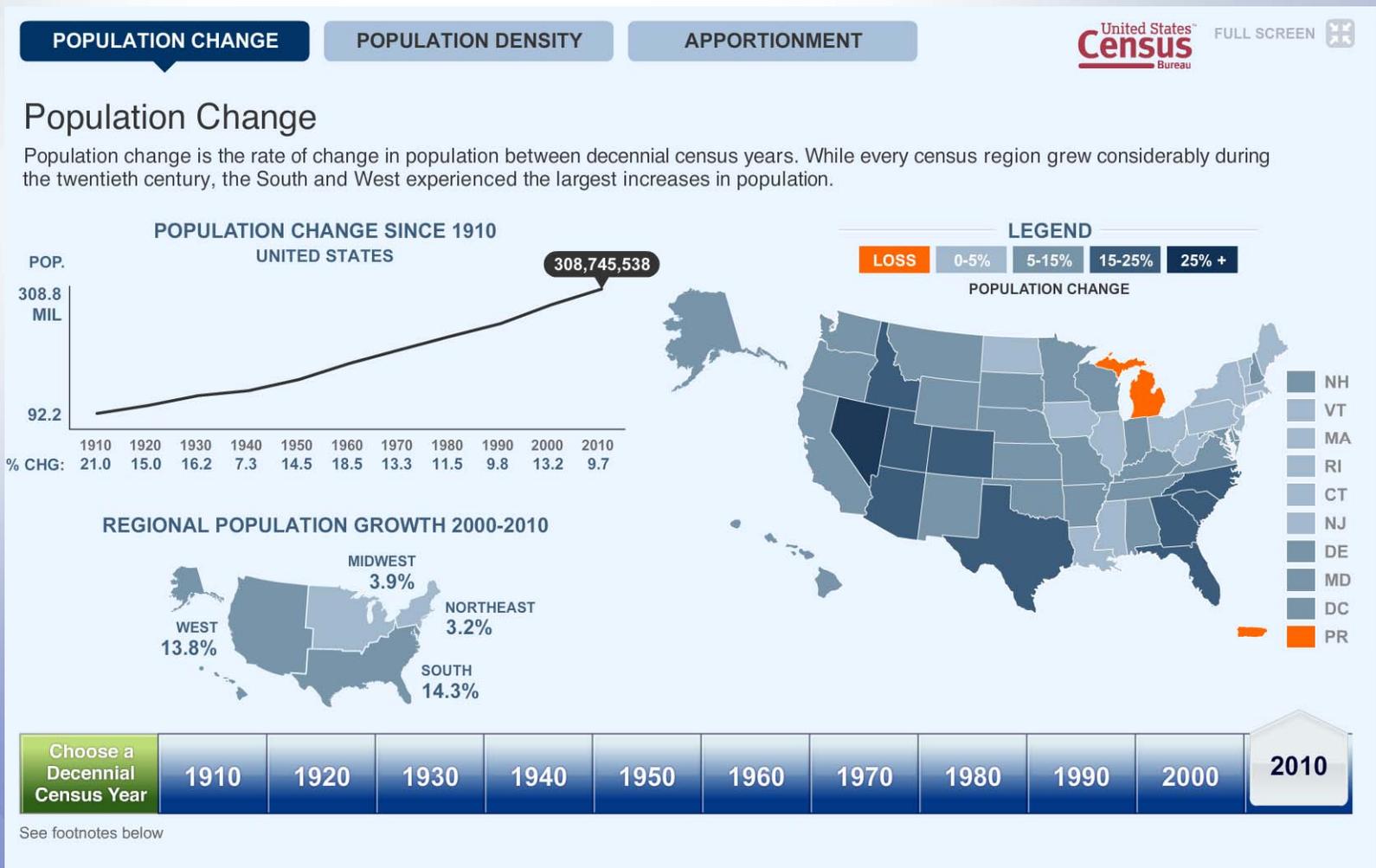
Population counts are in

- 2010 pop: 308,745,538



Slowing down...

- 2000-2010 pop: 9.7 percent growth

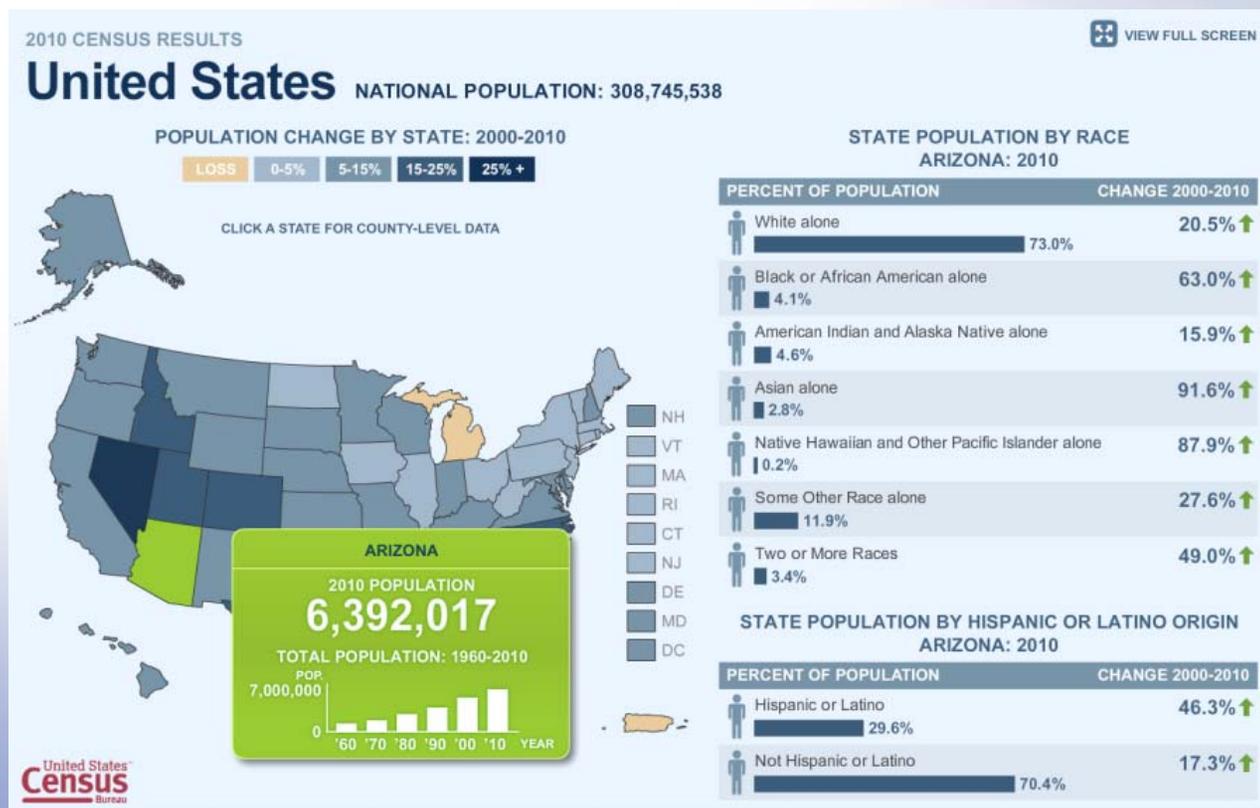


Notable

- Migration South and West
- Hispanic/Latino component of population growth
- Child populations
 - Youth populations decline in many states and large metro areas (Brookings Institution)
 - Hispanic and other “new minority” gains

State

- Arizona – ranked #2 in growth rate (24.6 %)
 - 1990-2000 (40.0 %)
- Apportionment – AZ gains 1 seat in Congress



State

- AZ added 1,264,385 people
 - 39.9 percent of growth due to natural increase
 - 60.1 percent implied net migration
- Hispanic/Latino growth rate – 46.3 percent
 - 58.1 percent due to natural increase
 - 41.9 percent net migration
- Non-Hispanic growth rate– 17.3 percent
 - 23.4 percent due to natural increase
 - 76.6 percent net migration

State

- Census population estimates for April 1, 2010
 - 262,341 (4.1 %) over 2010 Census count
 - 45,023 overestimate in Pima County
- Possible factors
 - Estimates methodology
 - Population decline during recession
 - Undercount

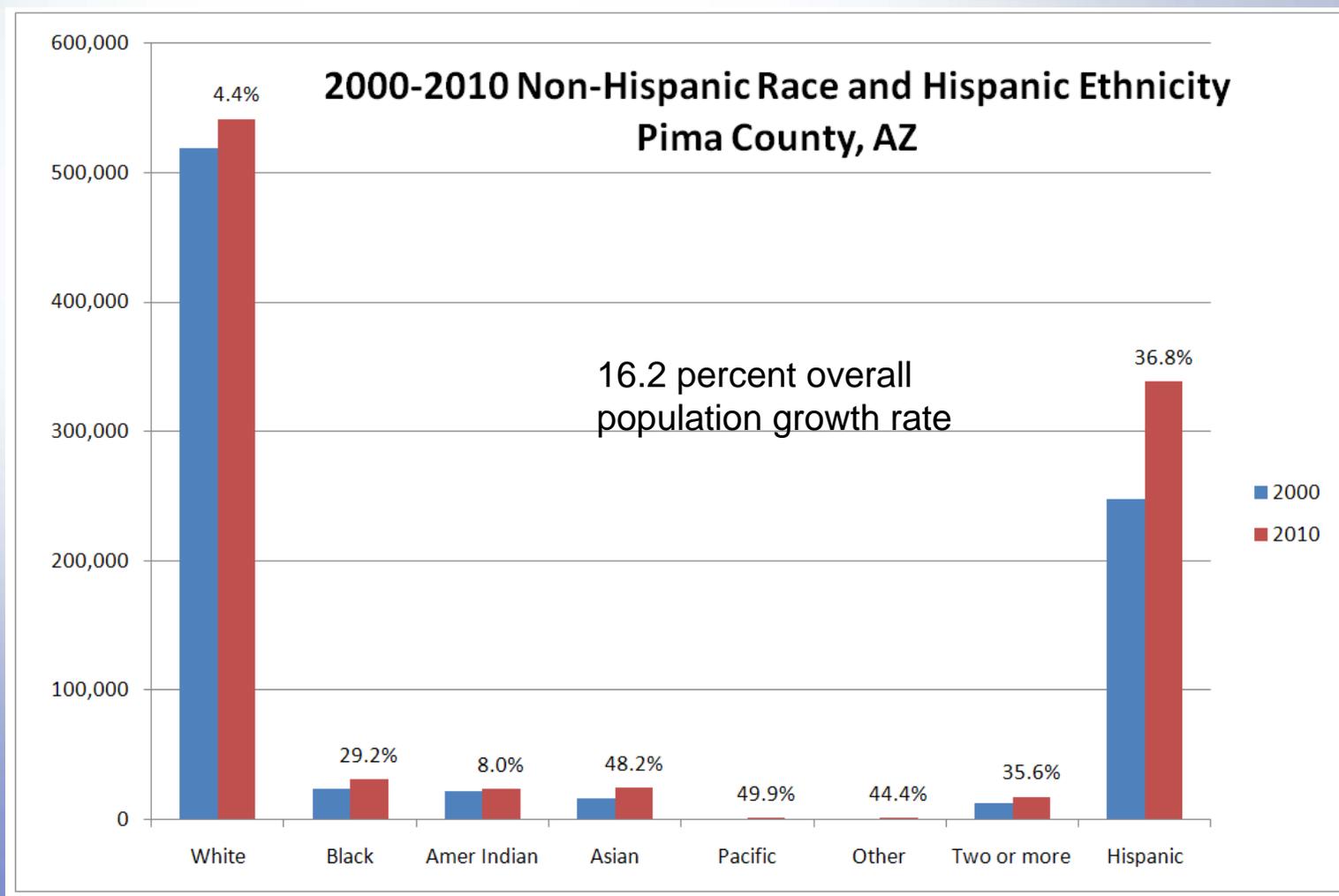


County

- Pima County grew 16.2 percent
 - 1.1 percent loss in state share of population
 - Natural increase/Net migration
- Meanwhile, 109.1 percent growth in Pinal County
 - 2.4 percentage point gain

Pima County

- Race/Ethnicity



Pima County

- Children (under 18 years)
 - 8.4 percent growth, 2000-2010
 - But... losing ground (-6.7 percent chg of proportion)

Pima County

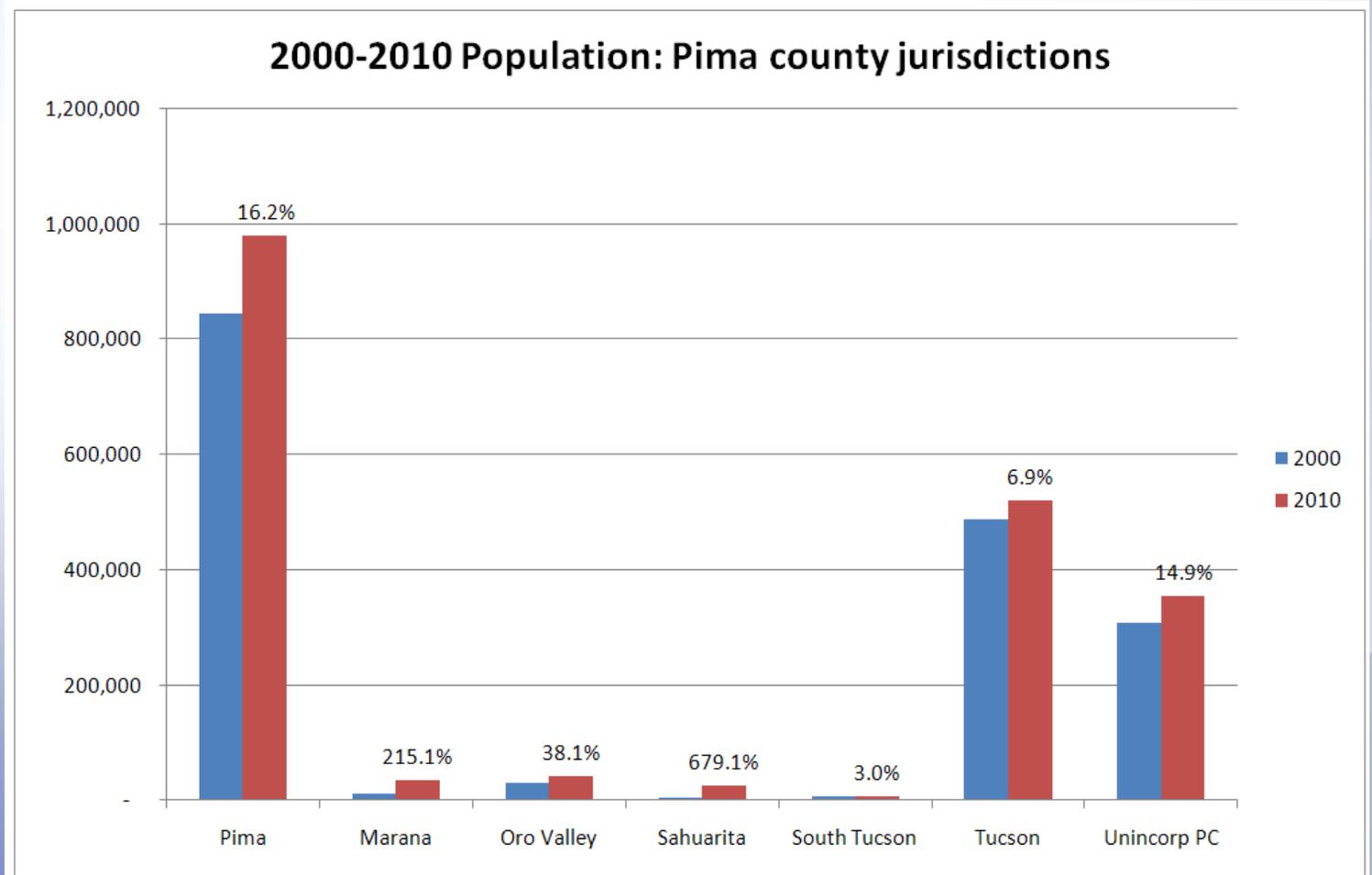
- Children – Race/Ethnicity
 - Echoing regional and national trends
 - White child pop declines
 - “New minority” gains
 - Hispanics - largest contribution to child population growth

| PIMA COUNTY, ARIZONA | 2000 | 2010 | Growth | 10-year growth rate |
|--|---------|---------|----------|---------------------|
| TOTAL POP | 843,746 | 980,263 | 136,517 | 16.2% |
| TOTAL POP CHILDREN | 207,896 | 225,316 | 17,420 | 8.4% |
| CHILDREN'S SHARE OF OVERALL POP | 24.6% | 23.0% | -1.7% | -6.7% |
| WHITE | 518,720 | 541,700 | 22,980 | 4.4% |
| WHITE CHILDREN | 95,081 | 81,367 | (13,714) | -14.4% |
| WHITE SHARE OF OVERALL CHILD POP | 45.7% | 36.1% | -9.6% | -21.0% |
| WHITE CHILDREN'S SHARE OF OVERALL POP | 11.3% | 8.3% | -3.0% | -26.3% |
| BLACK | 24,047 | 31,075 | 7,028 | 29.2% |
| BLACK CHILDREN | 6,769 | 7,688 | 919 | 13.6% |
| BLACK SHARE OF OVERALL CHILD POP | 3.3% | 3.4% | 0.2% | 4.8% |
| BLACK CHILDREN'S SHARE OF OVERALL POP | 0.8% | 0.8% | 0.0% | -2.2% |
| AM INDIAN | 21,821 | 23,558 | 1,737 | 8.0% |
| AMER INDIAN CHILDREN | 7,661 | 7,235 | (426) | -5.6% |
| AMER INDIAN SHARE OF OVERALL CHILD POP | 3.7% | 3.2% | -0.5% | -12.9% |
| AMER INDIAN CHILDREN'S SHARE OF OVERALL POP | 0.9% | 0.7% | -0.2% | -18.7% |
| ASIAN | 16,595 | 24,592 | 7,997 | 48.2% |
| ASIAN CHILDREN | 3,206 | 4,504 | 1,298 | 40.5% |
| ASIAN SHARE OF OVERALL CHILD POP | 1.5% | 2.0% | 0.5% | 29.6% |
| ASIAN CHILDREN'S SHARE OF OVERALL POP | 0.4% | 0.5% | 0.1% | 20.9% |
| PACIFIC | 891 | 1,336 | 445 | 49.9% |
| PACIFIC CHILDREN | 217 | 349 | 132 | 60.8% |
| PACIFIC SHARE OF OVERALL CHILD POP | 0.1% | 0.2% | 0.1% | 48.4% |
| PACIFIC CHILDREN'S SHARE OF OVERALL POP | 0.0% | 0.0% | 0.0% | 38.4% |
| OTHER | 1,012 | 1,461 | 449 | 44.4% |
| OTHER CHILDREN | 354 | 440 | 86 | 24.3% |
| OTHER SHARE OF OVERALL CHILD POP | 0.2% | 0.2% | 0.0% | 14.7% |
| OTHER CHILDREN'S SHARE OF OVERALL POP | 0.0% | 0.0% | 0.0% | 7.0% |
| TWO OR MORE | 13,082 | 17,739 | 4,657 | 35.6% |
| TWO MORE CHILDREN | 5,445 | 7,564 | 2,119 | 38.9% |
| TWO MORE SHARE OF OVERALL CHILD POP | 2.6% | 3.4% | 0.7% | 28.2% |
| TWO MORE CHILDREN'S SHARE OF OVERALL POP | 0.6% | 0.8% | 0.1% | 19.6% |
| HISPANIC | 247,578 | 338,802 | 91,224 | 36.8% |
| HISPANIC CHILDREN | 89,163 | 116,169 | 27,006 | 30.3% |
| HISPANIC SHARE OF OVERALL CHILD POP | 42.9% | 51.6% | 8.7% | 20.2% |
| HISPANIC CHILDREN'S SHARE OF OVERALL POP | 10.6% | 11.9% | 1.3% | 12.1% |
| NON-HISPANIC | 596,168 | 641,461 | 45,293 | 7.6% |
| NON-HISPANIC CHILDREN | 118,733 | 109,147 | (9,586) | -8.1% |
| NON-HISPANIC SHARE OF OVERALL CHILD POP | 57.1% | 48.4% | -8.7% | -15.2% |
| NON-HISPANIC CHILDREN'S SHARE OF OVERALL POP | 14.1% | 11.1% | -2.9% | -20.9% |

*Race terms (eg. "white", "black") refer to non-Hispanic members of those groups

Sub-County

- Population growth 2000-2010



Sub-County

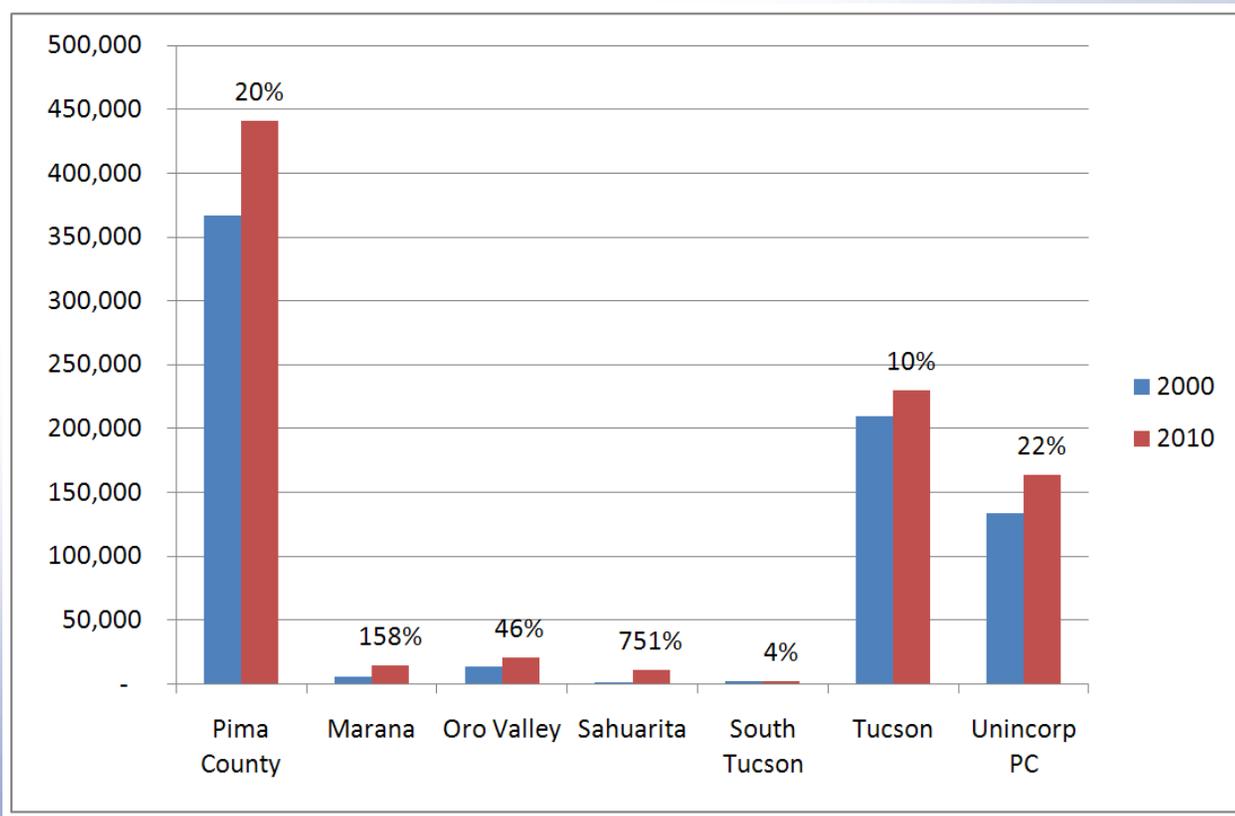
- Housing units/vacancies

| | Housing units | | Vacancies | | Vacancy rate | | Percent change in vacancy rate | Percent change in occupancy rate | Net difference of local inventory and Census housing units |
|-------------|---------------|---------|-----------|--------|--------------|-------|--------------------------------|----------------------------------|--|
| | 2000 | 2010 | 2000 | 2010 | 2000 | 2010 | 2010 | 2010 | 2010 |
| Pima County | 366,737 | 440,909 | 34,387 | 52,249 | 9.4% | 11.9% | 26.4% | -2.7% | 8,891 |
| Marana | 5,702 | 14,726 | 758 | 1,653 | 13.3% | 11.2% | -15.6% | 2.4% | 267 |
| Oro Valley | 13,946 | 20,340 | 1,697 | 2,536 | 12.2% | 12.5% | 2.5% | -0.3% | 327 |
| Sahuarita | 1,247 | 10,615 | 92 | 1,595 | 7.4% | 15.0% | 103.7% | -8.3% | -367 |
| S Tucson | 2,059 | 2,137 | 249 | 310 | 12.1% | 14.5% | 20.0% | -2.7% | 71 |
| Tucson | 209,609 | 229,762 | 16,718 | 24,372 | 8.0% | 10.6% | 33.0% | -2.9% | 8,085 |
| Unincorp PC | 134,174 | 163,329 | 14,873 | 21,783 | 11.1% | 13.3% | 20.3% | -2.5% | 507 |

Sub-County

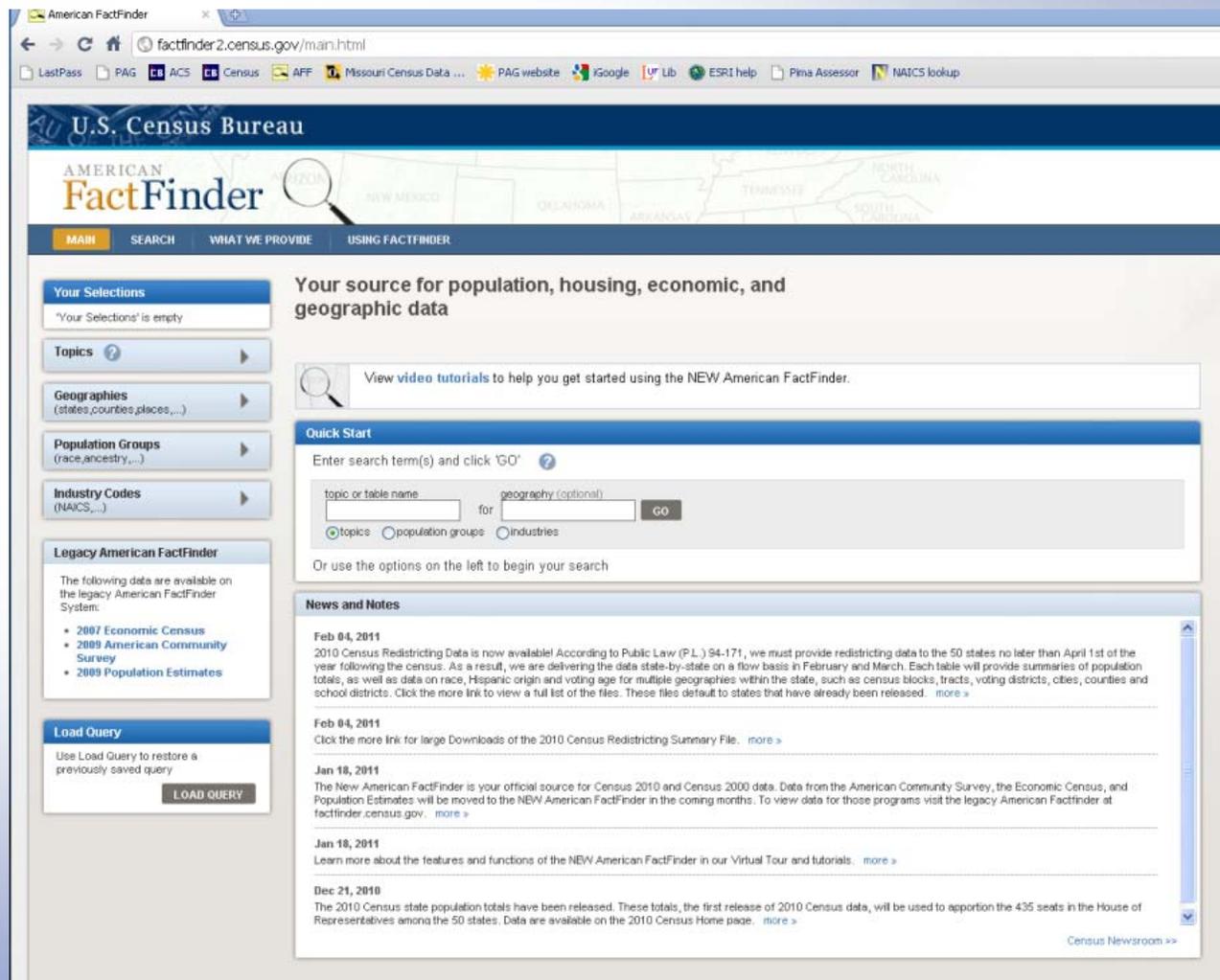
- Housing unit growth 2000-2010

| | Housing unit growth rate 2000-2010 | Household growth rate 2000-2010 | Population growth rate 2000-2010 |
|--------------|------------------------------------|---------------------------------|----------------------------------|
| Pima County | 20% | 16.9% | 16.2% |
| Marana | 158% | 164.4% | 215.1% |
| Oro Valley | 46% | 45.4% | 38.1% |
| Sahuarita | 751% | 681.0% | 679.1% |
| South Tucson | 4% | 0.9% | 3.0% |
| Tucson | 10% | 6.5% | 6.9% |
| Unincorp PC | 22% | 18.6% | 14.9% |



American Fact Finder 2

- Web interface
- Filter by:
 - Topic
 - Geography
 - Population



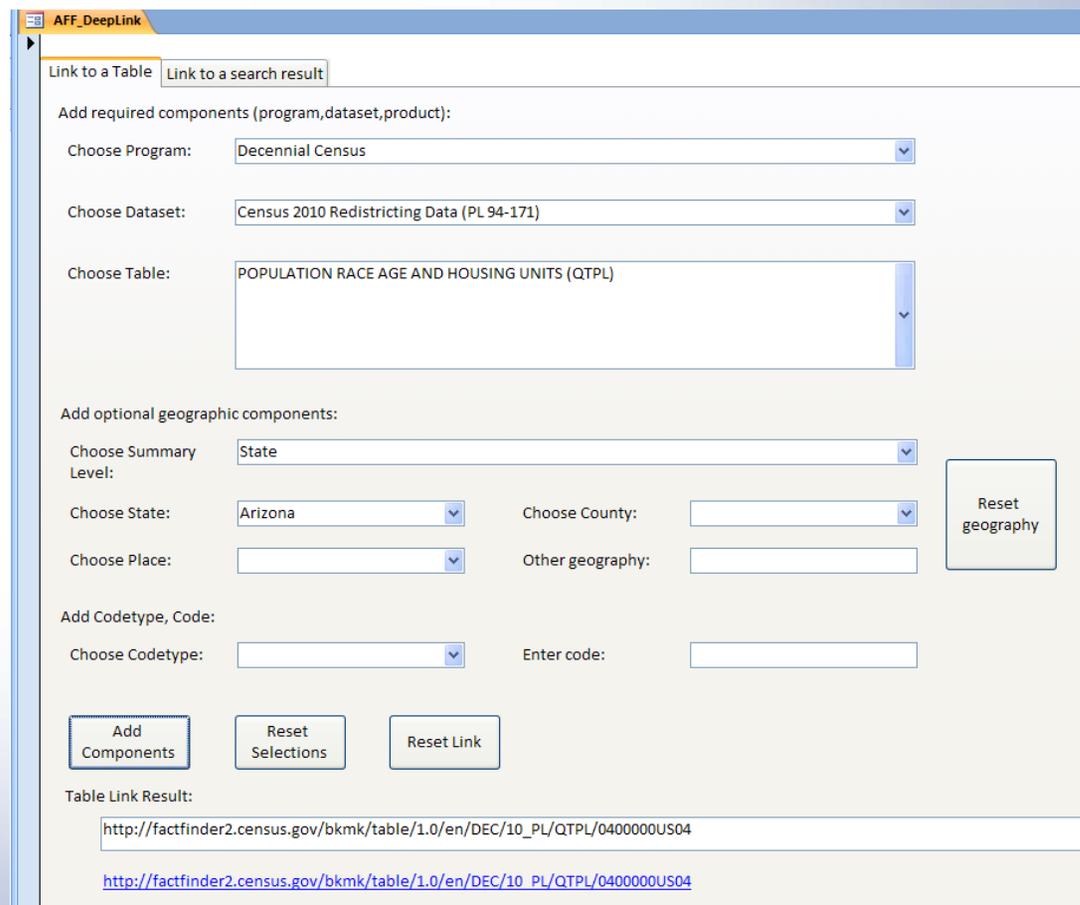
The screenshot shows the American FactFinder 2 web interface. The browser address bar displays "factfinder2.census.gov/main.html". The page header includes the U.S. Census Bureau logo and the "AMERICAN FactFinder" title. A navigation menu contains "MAIN", "SEARCH", "WHAT WE PROVIDE", and "USING FACTFINDER". On the left side, there are several filter categories: "Your Selections" (empty), "Topics", "Geographies (states, counties, places,...)", "Population Groups (race, ancestry,...)", and "Industry Codes (NAICS,...)". Below these is a "Legacy American FactFinder" section with a list of data sources: "2007 Economic Census", "2009 American Community Survey", and "2009 Population Estimates". A "Load Query" section is also present. The main content area features a search box with the text "Your source for population, housing, economic, and geographic data" and a "Quick Start" section with a search form. The search form includes a "topic or table name" field, a "geography (optional)" field, and a "GO" button. Below the search form are radio buttons for "topics", "population groups", and "industries". The "News and Notes" section contains several news items with dates and brief descriptions, such as "Feb 04, 2011: 2010 Census Redistricting Data is now available!" and "Jan 18, 2011: The New American FactFinder is your official source for Census 2010 and Census 2000 data." The page footer includes a "Census Newsroom" link.

American Fact Finder 2

- Data available
 - Tract is smallest geography
 - 2000, 2010 decennial census
 - Business patterns
 - ACS 2007, 2008 1YR & 3YR (2009 5YR on legacy AFF)
 - 2008 Population Estimates

Deep linking to AFF2

- URLs to specific tables, maps
- Direct link bypasses AFF2 web interface
- Techie oriented...



The screenshot shows the 'AFF_DeepLink' web interface. It has two tabs: 'Link to a Table' (selected) and 'Link to a search result'. The interface is divided into several sections:

- Add required components (program, dataset, product):**
 - Choose Program: Decennial Census
 - Choose Dataset: Census 2010 Redistricting Data (PL 94-171)
 - Choose Table: POPULATION RACE AGE AND HOUSING UNITS (QTPL)
- Add optional geographic components:**
 - Choose Summary Level: State
 - Choose State: Arizona
 - Choose County: (empty)
 - Choose Place: (empty)
 - Other geography: (empty)
 - Reset geography button
- Add Codetype, Code:**
 - Choose Codetype: (empty)
 - Enter code: (empty)

At the bottom, there are three buttons: 'Add Components', 'Reset Selections', and 'Reset Link'. Below these is the 'Table Link Result:' section, which displays two URLs:

```
http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_PL/QTPL/0400000US04
```

```
http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_PL/QTPL/0400000US04
```

White paper

- http://factfinder.census.gov/home/saff/AFF_deep_linking_guide_v1.1.pdf

Deep linking to AFF2

Table Link Result:

http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_PL/QTPL/0400000US04

http://factfinder2.census.gov/bkmk/table/1.0/en/DEC/10_PL/QTPL/0400000US04

QT-PL

2010 Census Redistricting Data (Public Law 94-171) Summary File

Table View 

Map View 

Actions:  [Modify Table](#) |  [Bookmark](#) |  [Download](#) |  [Create a Map](#)

NOTE: Change to the [Virginia 2010 P.L. 94-171 Summary File](#) data as delivered

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see <http://www.census.gov/prod/cen2010/p194-171.pdf>

GEO: 

| Subject | Total | | 18 years and over | |
|--|-----------|---------|-------------------|---------|
| | Number | Percent | Number | Percent |
| POPULATION | | | | |
| Total population | 6,392,017 | 100.0 | 4,763,003 | 100.0 |
| RACE | | | | |
| One race | 6,173,717 | 96.6 | 4,650,961 | 97.6 |
| White | 4,667,121 | 73.0 | 3,641,563 | 76.5 |
| Black or African American | 259,008 | 4.1 | 182,710 | 3.8 |
| American Indian and Alaska Native | 296,529 | 4.6 | 197,974 | 4.2 |
| Asian | 176,695 | 2.8 | 136,153 | 2.9 |
| Native Hawaiian and Other Pacific Islander | 12,648 | 0.2 | 9,221 | 0.2 |
| Some Other Race | 761,716 | 11.9 | 483,340 | 10.1 |
| Two or More Races | 218,300 | 3.4 | 112,042 | 2.4 |
| HISPANIC OR LATINO AND RACE | | | | |
| Hispanic or Latino (of any race) | 1,895,149 | 29.6 | 1,191,203 | 25.0 |
| Not Hispanic or Latino | 4,496,868 | 70.4 | 3,571,800 | 75.0 |
| One race | 4,382,237 | 68.6 | 3,511,428 | 73.7 |
| White | 3,695,647 | 57.8 | 3,017,895 | 63.4 |
| Black or African American | 239,101 | 3.7 | 172,249 | 3.6 |
| American Indian and Alaska Native | 257,426 | 4.0 | 175,207 | 3.7 |
| Asian | 170,509 | 2.7 | 132,317 | 2.8 |
| Native Hawaiian and Other Pacific Islander | 10,959 | 0.2 | 8,200 | 0.2 |
| Some Other Race | 8,595 | 0.1 | 5,560 | 0.1 |
| Two or More Races | 114,631 | 1.8 | 60,372 | 1.3 |
| HOUSING UNITS | | | | |
| Total housing units | 2,844,526 | 100.0 | | |
| OCCUPANCY STATUS | | | | |
| Occupied housing units | 2,380,990 | 83.7 | | |
| Vacant housing units | 463,536 | 16.3 | | |

(X) Not applicable

Source: U.S. Census Bureau, 2010 Census.

2010 Census Redistricting Data (Public Law 94-171) Summary File, Tables P1, P2, P3, P4, H1.

Summary file download

- All levels of geography
- Census FTP site
 - www2.census.gov
- How to use MS Access, SAS
 - http://www.census.gov/rdo/tech_tips/
- Access SQL queries



The screenshot shows a web browser window displaying the U.S. Census Bureau website. The page title is "U.S. Census Bureau" and it shows a directory listing of various data files. The listing includes columns for "Name", "Last modified", "Size", and "Description".

| Name | Last modified | Size | Description |
|---------------------------------------|-------------------|------|-------------|
| AHS/ | 07-Jul-2006 09:56 | - | |
| Econ2001_And_Earlier/ | 11-May-2009 13:57 | - | |
| acs/ | 30-Dec-2010 10:05 | - | |
| acs2002/ | 23-Sep-2008 08:25 | - | |
| acs2003/ | 06-Oct-2004 07:07 | - | |
| acs2004/ | 02-Feb-2006 10:40 | - | |
| acs2005/ | 08-Feb-2011 09:06 | - | |
| acs2005_2007_3vr/ | 09-Dec-2008 08:56 | - | |
| acs2005_2009_5vr/ | 12-Dec-2010 19:28 | - | |
| acs2006/ | 02-Sep-2010 11:55 | - | |
| acs2006_2008_3vr/ | 27-Oct-2009 13:38 | - | |
| acs2007_1vr/ | 26-Sep-2008 09:32 | - | |
| acs2007_3vr/ | 09-Dec-2008 08:56 | - | |
| acs2007_2009_3vr/ | 06-Jan-2011 14:51 | - | |
| acs2008_1vr/ | 03-Nov-2009 16:42 | - | |
| acs2008_3vr/ | 27-Oct-2009 13:38 | - | |
| acs2009_1vr/ | 02-Nov-2010 07:58 | - | |
| acs2009_3vr/ | 06-Jan-2011 14:51 | - | |
| acs2009_5vr/ | 12-Dec-2010 19:28 | - | |
| acs_special_tabs/ | 31-Mar-2008 09:32 | - | |
| census_1980/ | 16-Dec-2009 09:10 | - | |
| census_1990/ | 24-Sep-2007 14:59 | - | |
| census_2000/ | 03-Sep-2003 09:27 | - | |
| census_2010/ | 03-Feb-2011 15:45 | - | |
| ces/ | 15-May-2006 14:21 | - | |
| dadso/ | 09-Oct-2009 11:41 | - | |
| econ/ | 27-Feb-2009 15:29 | - | |
| econ2002/ | 13-Apr-2009 14:56 | - | |

Summary file download

- Access SQL queries for table creation /manipulation

```
SELECT
E.SUMLEV,
E.STATE,
E.COUNTY,
E.NAME,
E.PLACE,
A.P0010001 AS TOTAL_POP,
B.H0010001 AS TOTAL_HU,
B.H0010003 AS VAC_HU,
B.H0010003 / B.H0010001 AS VAC_RATE
```

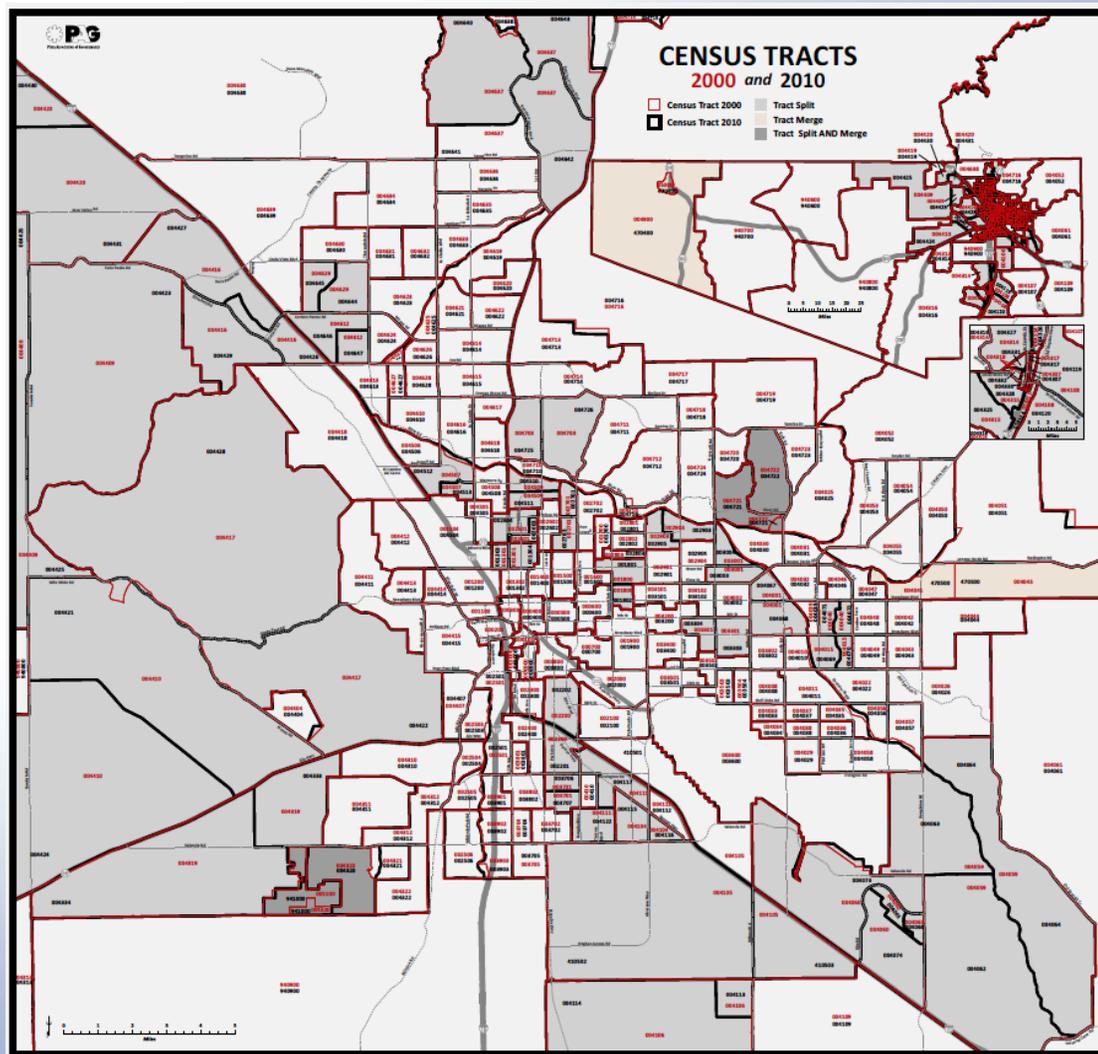
```
FROM Azgeo2010 AS E INNER JOIN (Az000012010 AS A INNER JOIN Az000022010 AS B ON A.LOGRECNO
= B.LOGRECNO) ON E.LOGRECNO = A.LOGRECNO
WHERE E.SUMLEV = "160" AND
(E.PLACE = '51600' OR E.PLACE = '11160' OR E.PLACE = '62140' OR E.PLACE = '77000' OR E.PLACE =
'68850' OR E.PLACE = '04880'
OR E.PLACE = '55300' OR E.PLACE = '10670' OR E.PLACE = '11230' OR E.PLACE = '72000' OR E.PLACE =
'77035' OR E.PLACE = '78760'
OR E.PLACE = '20540' OR E.PLACE = '41540' OR E.PLACE = '70240' OR E.PLACE = '78540')
;
```

Summary file download

- Working with ACS is a challenge
 - Excel macro for compiling summary files

Other challenges

- Geographic comparison across time
 - Block boundaries change
 - Tracts split, merged, renamed



Contact

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