

# **Tracking Hispanic Ethnicity: Evaluation of Current Population Survey Data Quality for the Question on Hispanic Origin, 1971 to 2004**

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## **Tracking Hispanic Ethnicity: Evaluation of Current Population Survey Data Quality for the Question on Hispanic Origin, 1971 to 2004**

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**Introduction.**

In 1992, the United States Census Bureau and Statistics Canada held a joint conference on the topic of ethnicity in Ottawa, Canada. Among other aspects of ethnicity, the speakers attending the conference shared various national experiences with conceptualizing and measuring ethnicity; assessing the need for ethnicity data in their respective countries; and describing the social-political contexts associated with the collection and use of ethnicity data. [\[1\]](#)

For several decades, the Census Bureau has attempted to operationally define and measure the population referred to as Spanish, Hispanic or Latino, an ethnic category first recognized officially by the Office of Management and Budget of the U.S. government in the 1970s. [\[2\]](#) This paper describes an evaluation of the Hispanic data reported in the Current Population Survey (CPS) over the past thirty-five years (1969 to 2004), while focusing in particular on events transpiring during and since 2000. The paper also complements a discussion the authors initiated concerning the Census Bureau's experience with Hispanic origin data reported in the decennial censuses. [\[3\]](#)

## **1. Overview of our approach**

In the next sections, we provide a brief overview of the mechanics of the CPS which has measured Hispanic ethnicity since 1969. In this part of our paper we focus on various aspects of the survey that directly affect Hispanic data results. We then present an overview of the Census Bureau experience with CPS Hispanic origin data collected between 1969 when the CPS first asked an ethnic origin or descent question through 2002, when the Census Bureau introduced specific Hispanic origin questions designed to approximate the Hispanic origin question asked in Census 2000. In this part of our paper we refer to the shifts that took place in the CPS Hispanic data over the thirty-five year period as the Census Bureau calibrated CPS data to match the census results, which reflected Hispanic population

growth decade by decade. We continue the paper by comparing CPS Hispanic origin data with results from other sources. In the last segments of the paper we focus on how the CPS has changed since 2002 following the introduction of the new CPS Hispanic origin question. [\[4\]](#)

Specifically, in this paper we:

- Assess the Internal consistency of CPS reporting;
- Compare CPS data with data from other sources such as Census 2000. [\[5\]](#)

## **2. Data sources**

We used the following resources to carry out our research (goal in parentheses):

- CPS annual demographic supplement files as well as printed reports and tables --1969 to 2004; decennial census results; immigration data. (examine change over time);
- A specially prepared file containing matched cases showing Hispanic origin data collected in Census 2000 and CPS information collected February through May of 2000 (gauge effects associated with differing data collection modes and question design);
- A file containing CPS cases interviewed in a special supplement fielded in May 2002 that included both the old (pre-2002) CPS ethnic origin question and the new (2002) CPS Hispanic origin questions (specifically gauge question effect);
- 2000 CPS March supplement cases (ASEC) weighted with 1990-based and 2000-based second stage weights (assess Census 2000 weighting changes); and
- 2003 and 2004 Basic CPS and ASEC data.

## **3. What is ethnicity?**

For over a century, social scientists have struggled to define and measure the phenomenon called ethnicity. Speakers attending the Joint Canada-United States Conference on the Measurement of Ethnicity in April 1992 <sup>[6]</sup> observed that anthropologists, sociologists, historians, demographers, and other researchers have all viewed the concept of ethnicity somewhat differently. While social psychologists and anthropologists have attempted to measure ethnicity using attitudinal scales and other instruments designed to assess mental processes associated with self concept, demographers have been more inclined to use: 1) external empirical criteria shown to be linked to the concept of ethnicity, such as place of birth, birthplace of parents (parental nativity), language spoken, or surname <sup>[7]</sup>, as well as 2) self-reported information. In this paper, we provide data on ethnicity based primarily on self-reported information.

#### **4. How does the Current Population Survey work? <sup>[8]</sup>**

Before we begin the discussion of our findings and conclusions regarding CPS Hispanic origin data, it is important to review some important characteristics of the CPS which play a role in the development of Hispanic data.

##### **4.1. CPS sample universe.**

The Bureau of Labor Statistics (BLS) is the primary sponsor of the CPS and refers to it as the 'Household Survey' in publications such as Employment and Earnings. In published reports, the Census Bureau states that the CPS universe is the civilian noninstitutionalized population. The Current Population Survey Annual Social and Economic Supplement (ASEC) universe also includes households with military members who live off post or on post with their families as long as one civilian adult lives in the housing unit. <sup>[9]</sup> Although it is probably easier for the lay person to think of the CPS as a household survey as opposed to a survey of the civilian noninstitutionalized

population, there are a few caveats associated with either classification.

Residents of the United States live in either households or group quarters (GQ). <sup>[10]</sup> The GQ population can be categorized as institutionalized or noninstitutionalized and civilian or military. People living in relatively homogeneous group quarters circumstances, such as soldiers in military barracks, patients in nursing homes, and incarcerated prisoners, are relatively easy to exclude from the civilian noninstitutionalized population. However, other population groups such as households with military members, college students in dorm rooms whose usual place of residence is a parental home, or the staff of prisons and hospitals who live in census defined special places are more difficult to classify.

Estimates of the Hispanic population reflected in the CPS somewhat understate the resident population reflected in censuses, since the CPS does not include people living in institutional group quarters such as nursing homes, and correctional institutions. <sup>[11]</sup>

#### **4.2. CPS sample design - Selected aspects.** <sup>[12]</sup>

The CPS sample design is fully described elsewhere. <sup>[13]</sup> However, it is important to note a few aspects of the design that affect CPS Hispanic data (particular effects are discussed in more detail below):

- The CPS is a multistage probability sample of housing units in the U.S. The Annual Social and Economic Supplement (ASEC) includes additional sample to increase the precision of derived estimates associated with the Hispanic origin population. Neither the basic (monthly) or ASEC sample specifically target groups for Hispanic detail such as Mexican, Puerto Rican, Cuban, etc.
- CPS sample data are weighted to universe levels through a multistage process. The initial stage is based on the inverse proportion of the sampling probabilities. The last stage involves a

ratio adjustment process where survey estimates are controlled to independent demographic estimates based on selected characteristics such as age, sex, race, and Hispanic origin. The last stage weights are re-calibrated after every decennial census.

- CPS sample frame and stratification levels are based on the geographic distribution of the population as well as socioeconomic data drawn from the last census. Groups such as the total Hispanic origin population are targeted in the sample design strata and are therefore well represented from month to month although they are relatively non-randomly distributed across the United States.
- On the other hand, depending on the size and distribution of their populations, the samples of detailed Hispanic groups may fluctuate more than the total Hispanic figures owing to the rotation of CPS sample panels. (Table 1, Table 2; Figure 1 and Figure 2).
- Each monthly CPS sample contains eight rotation panels, and every household in the survey is assigned to a specific panel. Each panel is rotated in for 4 consecutive months, out for 8 months, and back in for 4 months over a 16 month period, and then replaced. In any given month, one of the household panels is interviewed for the first time, one for the second time, and so on, up to eight. The CPS design includes a 75 percent overlap in the sample addresses from month to month and a 50 percent overlap from year to year for the same month, a feature that reduces sampling error for month-to-month and year-to-year comparisons.

#### **4.3. CPS sample weighting.**

The CPS is a "controlled" survey through which the Census Bureau transforms sample counts into national population totals in several stages. [\[14\]](#) The initial stage of weighting is done at the household level when base-weights are assigned to sample cases (a weight equal to the inverse of the case's probability of selection). The next



major step in the primary stage of weighting the sample data is to inflate the base-weights by an average of about 6 to 7 percent to account for non-interview households (units eligible for interview but not actually interviewed).

The second stage of weighting involves individual person cases. This step is designed to compensate for deficiencies resulting from survey under-coverage of the sample frame by controlling the first-stage weighted sample data to demographic estimates derived from combining census and administrative records data. Second-stage weights are based on three distributions derived independently of the CPS:

- State of residence;
- Age, sex, and Hispanic origin; and
- Age, sex, and race.

The independent values from the demographic estimates used to weight the survey are benchmarked to the previous census. [\[15\]](#)

## **5. How has the Census Bureau conceptualized and measured ethnicity using the CPS?**

### **5.1. Hispanic origin questions.**

The influx of refugees from Cuba beginning in the early 1960s, as well as subsequent changes in U.S. immigration law in 1965, substantially changed the composition of the U.S. foreign-born population. [\[16\]](#) In the late 1960s, it became apparent to demographers reviewing administrative data, such as vital statistics and immigration data, that the volume of residents with a non-European background had shifted dramatically. After examining their findings, OMB advised the Census Bureau to use the CPS to pilot test a subjective origin or "descent" question designed to measure the ethnic composition of the U.S. household population (Question examples in Appendix A). [\[17\]](#) To

obtain a basis for comparing the validity of the "Origin" question, the CPS also asked questions about demographic characteristics known to be highly correlated with ethnic identity such as birthplace, parental birthplace, and language.

After the initial attempt to identify and measure the ethnic composition of the population using the November 1969 CPS, the Census Bureau decided to add a specific "Spanish origin" or "Descent" question to the 1970 decennial census questionnaire (Appendix A). As a result, the 1970 Census provided Spanish/Hispanic population data from several sources including : (1) a language question; (2) an origin or descent question; (3) Spanish surnames from a surname code list; (4) birthplace and (5) parental birthplace questions. <sup>[18]</sup>

Following the census of 1970, the Census Bureau continued to use the CPS origin/descent question fielded in 1969 to collect Spanish data, however, the birthplace questions were not included again in the CPS until 1994, when "place of birth" as well as "mother's place of birth" and "father's place of birth" questions were added to the core or basic CPS questionnaire. <sup>[19]</sup>

## **5.2. CPS Hispanic data changes since 2000.**

### **5.2.1. The new Hispanic origin question**

In January 2003, the CPS began to produce results from a set of new Hispanic origin questions added to the CPS in 2002 (Appendix A). Prior to this, CPS Hispanic data had been derived from the "origin or descent" question described above. That is, during the years 1971 to 2002, Hispanic data were not produced by a direct question about Hispanic ethnicity, but rather by combining selected responses to a more general ethnic question. <sup>[20]</sup> On the other hand, the new Hispanic question(s) specifically asks "Are you/Is....Spanish, Hispanic, or Latino?" Persons responding "yes" are then asked a subsequent question, "Are you/Is....Mexican, Mexican-American,

Chicano, Puerto Rican, Cuban, Cuban-American, or some other Spanish, Hispanic, or Latino group?” thus naming the groups identified in the old descent question. A probe question is used to elicit more specific information about people responding affirmatively to the “Other” category. <sup>[21]</sup> The interviewer asks the probe question using a flash card containing a listing of 42 possible responses (Appendix A).

The Hispanic detailed groups historically listed in CPS data products from the Census Bureau have included census categories in use since the 1970 Census (Mexican, Puerto Rican, Cuban, Central or South American, and Other Hispanic). (Census data in Table A, CPS detail in Table 1, see Figures 1 and 2). Beginning January 2003, the new Hispanic origin questions included in the CPS made the addition of more specific Hispanic categories in Census Bureau Current Population Reports feasible.

**Table A. Detailed Hispanic Categories from the Census: 1970 to 1990**

<b>Year</b>	<b>Mexican</b>	<b>Cuban</b>	<b>Puerto Rican</b>	<b>Total Hispanic</b>
<b>1990</b>	13.4 million	1.1 million	2.6 million	21.9 million
<b>1980</b>	8.7 million	803,226	2.0 million	14.6 million
<b>1970</b>	4.5 million	544,600	1.4 million	9.1 million

Source: Census Bureau (2002), Working Paper No. 56 (Gibson and Jung)

As a result, it is now possible to show the population totals as well as social and economic information for additional detailed Hispanic categories such as: "Dominican", "Salvadoran", "Other Central American", and South American" in CPS products (Table 2).

## **5.2.2. Results from Changes in Hispanic Question Wording tied to Nativity.**

### **5.2.2.1 Natives more likely than foreign born to change reporting behavior.**

A research file from the May 2002 CPS supplement, containing responses from the old "origin or descent" question along with responses to the new Hispanic origin question(s) for the same person, reveals that the new question elicits a greater response of Hispanic origin (37.3 million) than does the old question (35.5 million) while the reverse appears to be true for "Other Hispanic" which seems to be higher for the old question (2.4 million) than the new question (2.2 million). (Table 3-A.)

A more in-depth analysis of data from this matched file indicates that the increase in the number of Hispanic responses appears to be coming from the native population, about 22.8 million for the new question versus 21.0 million for the old question, for a difference of about two million compared with 14.6 million versus 14.5 million respectively for the foreign-born population. [\[22\]](#) ( Table 3-B and Table 3-C).

Although the questions seem to have produced no meaningful difference in the total number of Hispanics for the foreign-born, further investigation shows that the proportion of the foreign-born Hispanics who reported "Other Hispanic" in response to the old question declined from 4.3 percent to 1.9 percent in response to the new question. In comparison, native Hispanics reported more similar proportions (6.4 percent versus 5.9 percent).

The 2002 file also indicates that among the 2.2 million persons reporting "Other" Hispanic in response to the new CPS question, about 31.8 percent previously had reported "Not Hispanic" to the old CPS question. Most of the respondents (89.8 percent) who switched

from "Not Hispanic" to "Other Hispanic" were native. In fact, 84.3 percent of the people who reported "Other Hispanic" to the new question were native.

#### **5.2.2.2. Detailed Hispanic responses increased among the foreign born.**

The new Hispanic question elicits a higher degree of reporting of specific Hispanic groups than does the "old" origin or descent question. <sup>[23]</sup> It also seems as though the new question format may have been more likely to increase detailed origin reporting among foreign-born Hispanics.

Given the shift described in Section 5.2.2.1 concerning the decrease in people reporting "Other Hispanic", evidence from the matched file also shows that the new Hispanic question(s) led more people to report a specific Hispanic origin group, than did the old origin question. Many of those reporting "Other Hispanic" in response to the old question, provided a more detailed response to the second of the new questions which allows the respondent 42 choices, several of which are non-Hispanic. For example, Table 3-A shows that among those who said they were "Dominican" in response to the new question 44.8 percent had provided the more general "Other Hispanic" response to the old question. This shift was more pronounced among the foreign born where 48.7 percent of the Dominicans in the new question had responded "Other Hispanic" to the old question (Table 3-B), compared with the natives, where only 38.4 percent of those identified as Dominican by the new question had responded "Other Hispanic" in the old question (Table 3-C).

The data in these tables support the conclusion that those who provided detail for the old question continued to provide detail for the new question, although consistency appears to be better for the foreign-born population. For example, the percent reporting Mexican

origin consistently between the new and old questions was 96.1 percent for the foreign-born population and 90.1 percent for the native population. The corresponding percentages for Cubans were 91.7 percent and 81.5 percent, respectively. Puerto Ricans are not foreign born; so no comparison can be made along the nativity dimension, however, the consistency for all Puerto Ricans was 85.7 percent. [\[24\]](#)

### **5.2.2.3. Response validity and the new question.**

Traditionally, statistical validity has referred to a measurement that is representative of, or an actual gauge for an observed phenomenon. By providing respondents greater choice, the new Hispanic origin question seems to improve the validity of responses by allowing interviewed subjects to better approximate their detailed Hispanic origin answers than did the old question. However, some caveats remain.

Table 4-A reveals that long-standing detailed Hispanic groups such as Mexican, Cuban, and Puerto Rican show high consistency in reporting birthplace and detailed Hispanic origin. In 2003, among those born in Mexico, 98.5 percent say they are Mexican in response to the new Hispanic question. Comparable figures are 93.4 percent for those born in Cuba and 92.8 percent for those born in Puerto Rico. However, not all the newly identified groups display comparable levels of consistency between birthplace and detailed Hispanic response. For example, among those born in the Dominican Republic, 88.7 percent report Dominican, while in contrast, among those born in El Salvador, a figure of 62.4 percent emerges. [\[25\]](#) The relatively lower proportion of foreign-born from El Salvador responding as Salvadoran raises questions about the responses for this Hispanic category.

### **5.2.2.4. Rethinking Hispanic.**

A number of people reported as Hispanic in the "Yes-No" question (first in the series of new Hispanic questions shown in Appendix A), but in a follow-up question, some of those reporting Hispanic also indicated they were Portuguese, Haitian, Brazilian, or of some other group not traditionally identified by the Office of Management and Budget as an Hispanic category. Using unedited data, about 180,000 people reported in this manner in 2003. In all these cases, the response to the "Yes-No" question was changed in the edit to "No." Using edited data, there were also about 287,000 people in 2003 who provided responses not listed in the Hispanic code list for CPS, such as "Mestizo," "Raza," or "Mixed," and were therefore coded as "Other Other." (Table 5)

These responses raise the issue of self-concept. While it was possible that some of the CPS respondents misunderstood the question, because a Census Bureau field representative conducted the CPS interview and many of these interviewers spoke the respondents' language, confusion about the questions should have been minimized compared with the mail-out, mail-back census form. Furthermore, our research shows respondents' or respondents' parental birthplace may have led them to believe the terms "Hispanic" and/or "Latino" applied to them. Table 5 shows that among the 287,000 "Other Other" Hispanics in 2003, about 158,000 (55 percent) were born in the United States and about 129,000 (45 percent) were born elsewhere (primarily in Spanish-speaking countries). For 2004, among the 306,000 "Other Other" Hispanics, about 200,000 (65 percent) were born in the United States and about 106,000 (35 percent) were born elsewhere (again, primarily in Spanish-speaking countries).

Additional research needs to be conducted to understand why respondents who indicated they were Hispanic to the "Yes-No" question and then gave an explicitly non-Hispanic group in the follow-up question. One possible suggestion is that this is the only way

these respondents can report a mixed ancestry. We might want to look at parental birthplace to see if one or both parents were born in a Spanish-speaking country, thus allowing for the possibility that the respondent wanted to express a multiple response. Regarding the “Other Other,” we have no additional data from the CPS, even with the parental birthplace data, to determine that the respondent is Hispanic. Overall, however, the number of these responses represents a relatively small share of the Hispanic population.

### **5.3. CPS 2001 sample expansion.**

Following Census 2000, the Census Bureau began testing an expanded CPS monthly or basic sample. The primary goal of the ASEC expansion is the production of more precise as well as reliable state estimates of low-income children without health insurance (State Children’s Health Insurance Program or SCHIP). In July 2001, the Bureau of Labor Statistics (BLS) officially included the expanded sample in its labor force statistics. <sup>[26]</sup> The Census Bureau also increased the ASEC sample for minorities, and households with children living with a White householder. <sup>[27]</sup> The expanded ASEC sample in 2001 consisted of 78,000 interviewed households. Although the SCHIP sample expansion was specifically designed to improve state-based estimates of children’s health insurance status, other estimates have been improved as a result of the additional sample (Table 7 discussed below). <sup>[28]</sup>

### **5.4. The Census 2000 benchmark**

We noted above, the Census Bureau uses independent demographic estimates to develop the CPS second stage weights and these demographic estimates are benchmarked to the last previous census. Table 1 shows the CPS Hispanic Origin totals as well as detailed groups series history, 1971 to 2004. Note that the CPS Hispanic origin estimates were benchmarked to censuses beginning in 1980



and again in 1990, and 2000 reflected in jumps in the plotted trend lines in Figure 1.

The 1990 census total shown earlier in Table A above represents the official census number. Demographic estimates used to develop second-stage weights benchmarked to 1990 were derived from a modified census base, sometimes called MARS for the “Modified Age-Race-Sex-Hispanic origin” distribution, where the category “Other” race has been proportionally distributed to four major race groups. <sup>[29]</sup> There was no immediate requirement for a fully developed MARS file for Census 2000. <sup>[30]</sup> Demographic estimates benchmarked to Census 2000 reflect change for five race groups: White; Black or African American; American Indian or Alaska Native; Asian; and Native Hawaiian or Other Pacific Islander. Prior to 2000, the Asian and Pacific Islander groups were combined.

In 2001, the Census Bureau introduced a new set of demographic estimates benchmarked to Census 2000. These new estimates currently form the basis of the CPS controls or second stage weights as described above. For evaluative purposes, the Census Bureau retrofitted the April 2000 census-based weights to basic survey data from October 1999 forward. <sup>[31]</sup> Monthly or basic CPS data weighted to population controls benchmarked to Census 2000 and earlier censuses are shown in Figure 1 and Figure 2. <sup>[32]</sup> The introduction of the 2000 controls increased the stated value of the basic March 2000 Hispanic population from 32.6 million (weights based on estimates benchmarked to 1990) to 34.7 million (weights based on estimates benchmarked to 2000), for a difference of about 2.1 million.

The introduction of the 2000 controls also resulted in an increase of 2.2 million Hispanics in the 2001 ASEC, as shown in Table 7, columns 1-3. Furthermore, the application of the new population controls introduced small changes in some of the stated sizes and proportions of selected characteristic-based subgroups found in the

ASEC, as well as some of statistics derived from those numbers, as can be seen in Table 7, columns 1-3. [\[33\]](#)

### **5.5 Summary: What has happened to CPS Hispanic data over time?**

Table 1 and Figures 1 and 2 show the CPS Hispanic population estimates 1971 to 2004. The final column in Table 1 shows important milestones in the CPS series over the period, up to and including the switch to the new Hispanic origin question in 2002. [\[34\]](#) Although Table 1 shows the years when census data were collected, Figure 1 graphically illustrates when the effects of updated weights based on census-based estimates were applied each decade. [\[35\]](#) Although the jumps in 1983 and 1993 are noticeable, the trend line is relatively smooth. [\[36\]](#) This smoothness reflects the application of the annual updated census-based population weights during the years between censuses. In the early years of the survey, the CPS Hispanic numbers were much more volatile. The application of census-based weights to the CPS estimates led to “control” of radical annual and monthly fluctuations as well as more precise estimates of the total Hispanic population. [\[37\]](#)

On the other hand, Figure 2 shows a somewhat different picture. Because the detailed Hispanic group samples are smaller than the total Hispanic sample and they are not controlled to census-based weights, they are much more prone to sampling variability. [\[38\]](#) Owing to the fact that detailed census information is only collected every 10 years, the Census Bureau has not attempted to develop and apply detailed Hispanic group census-based controls to CPS.

Table 6 reveals the precision of Hispanic group categories was improved, which may allow analysts to examine various characteristics of these groups and consider adding new groups to the core list. Using reporting of Hispanic origin and associated birth

place, we saw in Table 5 that those born in "Mexico" reported "Mexican" 98.5 percent of the time in 2003 and 98.9 percent in 2004; those born in "Cuba", reported "Cuban" 93.4 percent in 2003 and 95.7 percent in 2004; people born in "Puerto Rico" reported "Puerto Rican" 92.8 percent and 95.8 percent in 2003 and 2004, respectively. [\[39\]](#)

Table 2 revealed that each of the "old" groups (Mexican, Cuban, Puerto Rican) consistently exhibits a population in excess of 1 million people. Six-months of data from the CPS Basic survey also show that other groups such as Dominican, Central American and South American have also shown populations above one million in recent years. The category Salvadoran has not shown a population of one million consistently and as we noted above, people born in El Salvador do not identify themselves as Salvadoran with the same levels of consistency as some other groups.

## 6. Recommendations

As a result of our findings, we recommend the following for CPS/ASEC:

- The new Hispanic/Latino categories list should include (new items are indicated with an asterisk): Mexican, Puerto Rican, Cuban, Dominican\*, Central American\*, and South American\* and Other Hispanic. The social, demographic, and economic characteristics for the new groups are sufficiently different from each other and the other Hispanic groups that they merit being shown separately.
- "Salvadoran" should not be shown separately at this time or until we understand better why so many people born in El Salvador do not report Salvadoran origin.
- Additional Hispanic groups should be shown separately when they exceed the 1 million threshold for at least 6 consecutive months (Basic or monthly CPS) and two CPS ASEC and ACS

cycles, as well as exhibit internal consistency reflected in the correlations between place of birth and detailed identification.

- We recommend more research into the responses where: 1) people reported they were Hispanic in the “Yes-No” question and then reported a non-Hispanic response and 2) people reported they were Hispanic in the “Yes-No” question and then essentially reported a response that was uncodeable. Although the number of these responses is small, we need to understand better why respondents report in this manner. This is especially important for other data collection efforts such as the decennial census and the American Community Survey where the primary method of data collection is through self-enumeration via a mail-out/mail-back form and the respondents who choose to respond by mail do not have the benefit of an experienced field representative to help answer the question.
- Because the CPS includes information on the second generation not available from other data sources it affords a unique opportunity to report on population trends and should be used as a basis for analysis. We know from past research on immigration the importance of tracking how well succeeding generations have fared in making their way in society. We see the tremendous value of showing data for the above-mentioned groups by birth place and parental birth place, which currently can only be obtained from the CPS files. We propose periodic reports showing social, demographic, and economic characteristics for the Hispanic population by these detailed groups by first, second and third generation available and where sample permits. <sup>[40]</sup> The resulting report, we believe, will be received with great interest by our data users.

We plan to continue our research to demonstrate the quality of CPS estimates for the selected Hispanic groups we propose for inclusion in Current Population Reports beginning with the CPS 2006 Annual Social and Economic Supplement (ASEC) products.

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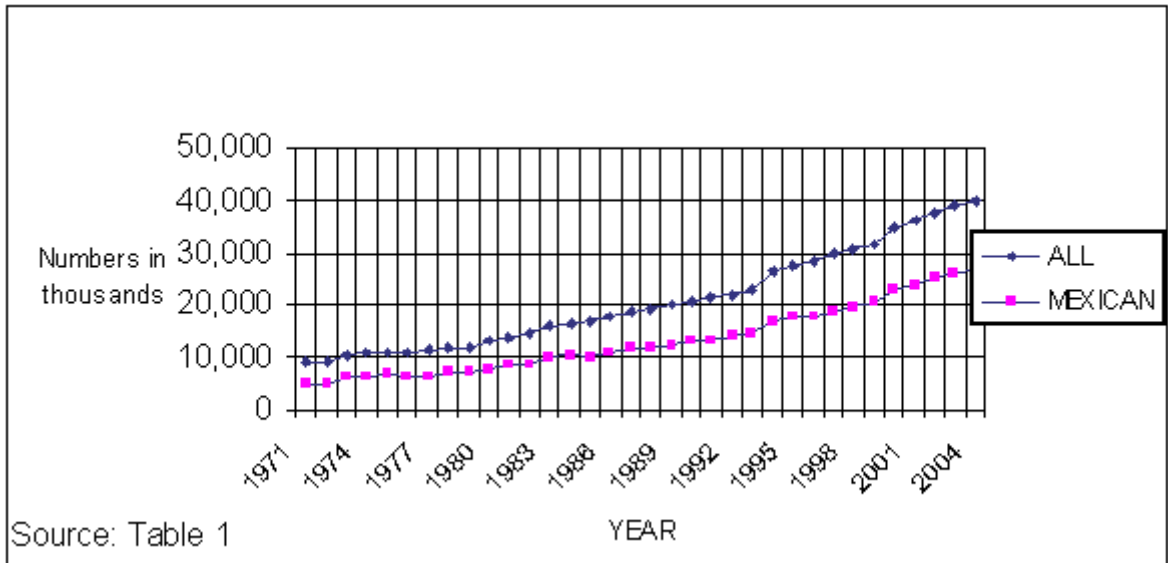
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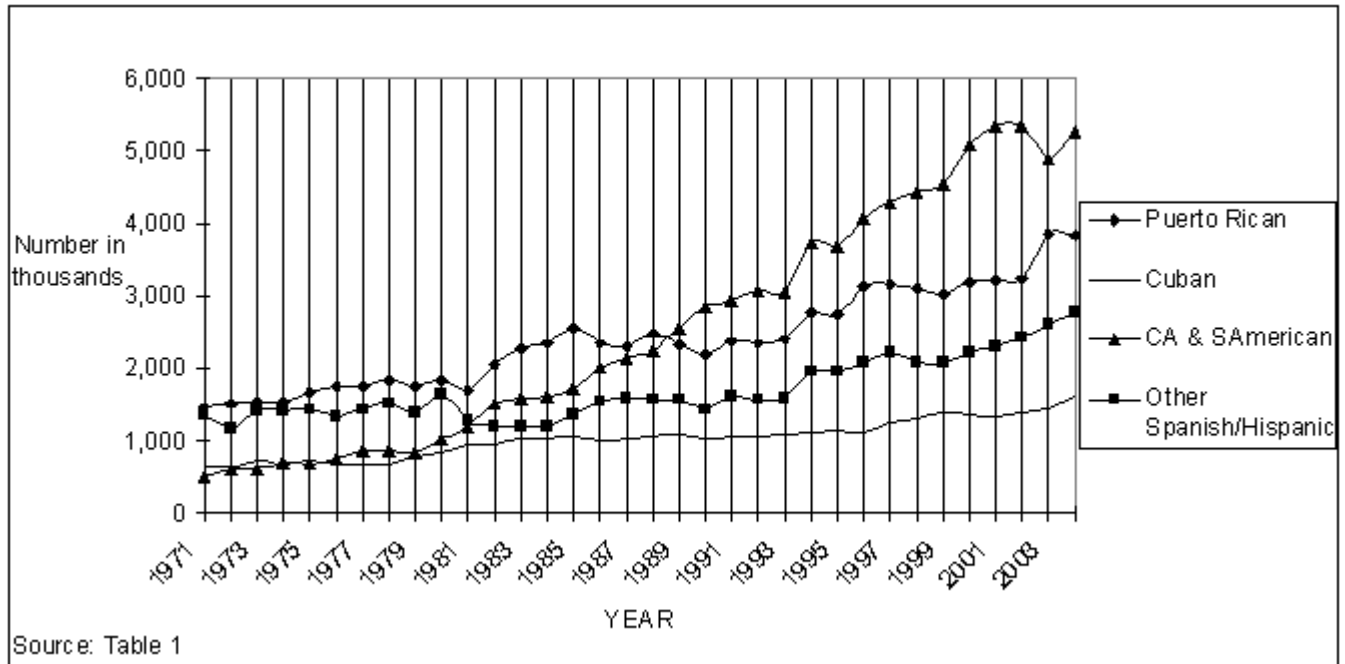
\* Items available on the Census Bureau website: [www.census.gov](http://www.census.gov)

**Figure 1. CPS Hispanic/Spanish Population, 1971 - 2004**





**Figure 2. Selected CPS Hispanic Groups, 1971 - 2004**



**Table 1. Spanish/Hispanic Population in the U.S. 1971 - 2004:**  
CPS Annual Supplemental Survey [[.xls](#) 24k | [.csv](#) 4k]

**Table 2. Selected Hispanic Groups: January to June 2003** [[.xls](#) 20k | [.csv](#) 3k]

**Table 3-A. Population by Hispanic Origin for the 'New' and 'Old' Origin Questions: CPS Match File May 2002** [[.xls](#) 22k | [.csv](#) 7k]

**Table 3-B. Foreign-Born Population by Hispanic Origin for the 'New' and 'Old' Origin Questions: CPS Match File May 2002** [[.xls](#) 25k | [.csv](#) 7k]

**Table 3-C. Native Population by Hispanic Origin for the 'New' and 'Old' Origin Questions: CPS Match File May 2002** [[.xls](#) 23k | [.csv](#) 3k]

**Table 4-A. Place of Birth for Selected Hispanic Groups, 2003** [[.xls](#) 23k | [.csv](#) 10k]

**Table 4-B. Place of Birth of Mother for Selected Hispanic Groups, 2003** [[.xls](#) 21k | [.csv](#) 8k]

**Table 4-C. Place of Birth of Father for Selected Hispanic Groups, 2003** [[.xls](#) 21k | [.csv](#) 9k]

**Table 5. Place of Birth of Persons for Selected Hispanic Groups: ASEC 2003 and 2004** [[.xls](#) 34k | [.csv](#) 19k]

**Table 6. Comparison of Selected Characteristics of the Hispanic Population: Current Population Survey - Annual Social and Economic Supplement (ASEC): 2001 and 2002** [[.xls](#) 20k | [.csv](#) 8k]

## **Appendix A - CPS and Census Hispanic origin questions 1970 to 2003**

### **1970 Census question**

13b. Is this person's origin or descent - (Fill one circle)

- Mexican
- Central or South American
- Puerto Rican
- Other Spanish
- Cuban
- No, none of these

### **March 1972 CPS question**

52. What is ...'s origin or descent ?

(Show Flash Card or Read List)

- German
- Mexican or Chicano
- Italian
- Puerto Rican
- Irish
- Cuban
- French
- Central or So American
- Polish
- Other Spanish
- Russian
- Negro
- English, Scot, Welsh
- Other
- Don't know

**March 1973 CPS question**

52. What is ...'s origin or descent ?

(Show Flash Card or Read List)

- German
- Italian
- Mexican American
- Irish
- Chicano
- French
- Mexican (Mexicano)
- Polish
- Puerto Rican
- Russian
- Cuban
- English
- Central or So. Amer

- Scottish
- Other Spanish
- Welsh
- Negro or Black
- Don't know
- Other (Specify below)

**March 2003 CPS questions**

Are you/Is... Spanish, Hispanic, or Latino?

1. Yes
2. No

(Asked only of those responding "Yes" to the preceding question)

Are you/Is... Mexican, Mexican-American, Chicano, Puerto Rican, Cuban, Cuban-American, or some other Spanish, Hispanic, or Latino group?

IF MULTIPLE ANSWER - PROBE

"Which group do/does he/she most closely identify with?"

1. Mexican
2. Mexican-American
3. Chicano
4. Puerto Rican
5. Cuban
6. Cuban-American
7. Other Spanish, Hispanic, or Latino group

(Asked only of those responding "Other Spanish, Hispanic, or Latino group" to the preceding question)

“What is the name of his/her other Spanish, Hispanic, or Latino group?”

1. Argentinean
2. Baleric Islands
3. Basque
4. Belize or British Honduras or Belice
5. Bolivian
6. Brazilian
7. Canary Islands
8. Castilian
9. Catalan
10. Central American
11. Central American Indian
12. Chilean
13. Colombian
14. Costa Rican
15. Dominican
16. Ecuadorian
17. Filipino
18. Guatemalan
19. Guamanian or Chamorro
20. Haitian
21. Hispanic
22. Honduran
23. Latin American
24. Latino
25. Nicaraguan
26. Panamanian
27. Paraguayan
28. Peruvian
29. Portuguese
30. Salvadoran
31. Sephardic

32. South American
33. South American Indian
34. Spanish
35. Spanish American
36. Spanish American Indian
37. Spanish Basque
38. Spaniard
39. Uruguayan
40. Venezuelan
41. Both Spanish, Hispanic, or Latino and some other group
42. Other

Specify "Other" Spanish, Hispanic, or Latino group.

**CPS data variables based on the new question(s):**

PEHSPNON 2 Are you/Is... Spanish, Hispanic, or Latino?

Universe: All

1. Yes
2. No

PEORISPN 2 Are you/Is... Mexican, Mexican-American, Chicano, Puerto Rican, Cuban, Cuban-American, or some other Spanish, Hispanic, or Latino group?

IF MULTIPLE ANSWER - PROBE "Which group do/does he/she most closely identify with?"

Universe: PEHSPNON = 1

1. Mexican
2. Mexican-American
3. Chicano
4. Puerto Rican

5. Cuban
6. Cuban-American
7. Other Spanish, Hispanic, or Latino group

PEOROTSP 2 What is the name of his/her other Spanish, Hispanic, or Latino group?

Universe: PEORISPN = 7

1. Argentinean
2. Balearic Islands
3. Basque
4. Belize or British Honduras or Belice
5. Bolivian
6. Brazilian
7. Canary Islands
8. Castilian
9. Catalan
10. Central American
11. Central American Indian
12. Chilean
13. Colombian
14. Costa Rican
15. Dominican
16. Ecuadorian
17. Filipino
18. Guatemalan
19. Guamanian or Chamorro
20. Haitian
21. Hispanic
22. Honduran
23. Latin American
24. Latino
25. Nicaraguan

26. Panamanian
27. Paraguayan
28. Peruvian
29. Portuguese
30. Salvadoran
31. Sephardic
32. South American
33. South American Indian
34. Spanish
35. Spanish American
36. Spanish American Indian
37. Spanish Basque
38. Spaniard
39. Uruguayan
40. Venezuelan
41. Both Spanish, Hispanic, or Latino and some other group
42. Other

## **Appendix B**

### **Matched Race and Hispanic Origin Responses from Census 2000 and Current Population Survey February to May 2000**

by Jorge Del Pinal and Dianne Schmidley

This paper examines differences between Census 2000 and CPS Hispanic origin and race responses by comparing data from a matched file containing answers provided by the same respondents to both CPS and Census 2000 Hispanic origin questions. The paper suggests that non-response in either the CPS or Census 2000 may account for more of the inconsistency between Census and CPS responses than switching identity between Hispanic and non-Hispanic



categories, and that most of the non-reporting for the Hispanic origin question is done by non-Hispanics.

### **I. Hispanic origin.**

About 13.1 percent of the 276 million CPS-Census 2000 matched cases were Hispanic according to Census 2000 responses, however, only 12.6 percent (98.8 percent of the Census 2000 Hispanics) were Hispanic according to the CPS. In contrast, among the 240 million non-Hispanics identified in Census 2000 and matched to CPS cases, 98.7 percent also said they were non-Hispanic in the CPS, while 98.0 percent of those same CPS cases (241 million people) identified as non-Hispanic in Census 2000.

Unedited data reveal that most of the non-reporting to the Hispanic origin question is done by non-Hispanics. About four percent (3.9 percent) of the matched respondents did not answer the Census 2000 Hispanic origin question whereas half as many or 1.8 percent did not answer the CPS Hispanic origin question. Among the respondents who did not answer the Census 2000 question, 78.8 percent of the cases (representing 8.4 million people) reported as not Hispanic in the CPS. In contrast, 91.9 percent of the total cases did not answer the CPS question but reported as not Hispanic in Census 2000.

Around 81.1 percent of the total cases reported they were not Hispanic in both the CPS and Census 2000, while 10.8 percent of the total responded as Hispanic in both surveys. Less than one percent of the respondents failed to answer either set of questions. While the percent answering neither set of questions was relatively small (one percent) the total of those who failed to answer either/or the CPS and Census 2000 (1 percent + 3.9 percent + 1.8 percent = 5.8 percent) was larger than the percent of cases switching from Hispanic to not Hispanic or vice versa (5.6 percent) between the survey and the census.

The paper also discusses the responses of detailed Hispanic groups as reported in Census 2000 and the CPS. About 18.8 percent of the cases that did not provide an answer in Census 2000 said they were Hispanic in the CPS. In contrast, among those reporting as Not Hispanic in Census 2000, about one percent reported as Hispanic in CPS. Among the detailed Hispanic groups reported in Census 2000, the proportion reporting as Hispanic in the CPS ranged between 80 percent and 90 percent. For example, among those reporting Mexican in Census 2000, 91.3 percent also reported as Hispanic in the CPS. Similar proportions were provided for other groups where CPS provides Hispanic examples (Mexican, Puerto Rican, Cuban). Among those who reported Puerto Rican in Census 2000, the proportion reporting Hispanic in the CPS was 83.3 percent and among Cubans, the number was 88 percent.

There was no statistical difference in the relatively low CPS non-response rates of those who reported Mexican (0.2 percent) or Cuban (1.1 percent) in Census 2000, revealing a pattern of consistent self identification across the data collections. Those identified as Mexican in Census 2000 also had the highest consistency in reporting as Hispanic in CPS (91.3 percent) compared with those reporting Other Hispanic who had the lowest (77.9 percent). Conversely, Other Hispanics had the highest proportion reporting as non-Hispanic in CPS (21.2 percent) while Mexicans had the lowest (8.5 percent). Clearly, in some cases the CPS origin question generates different answers about Hispanic origin compared with the Census question.

Next, the paper compares joint Hispanic origin response in CPS and Census 2000 for a subset of the Hispanic population born in the selected places outside the U.S. (U.S. births are excluded with the exception of Puerto Rico):

Mexican, Puerto Rican and Cuban (do not confuse with Mexico, Puerto Rico and Cuba). There was very high consistency of

"Hispanic" response in both CPS and Census 2000 (about 90 percent) for people born in Mexico, Puerto Rico, and Cuba, however, each of the three origin groups (based on these places of birth) appear as examples in Census 2000 and the CPS Hispanic origin questions. Even so, about three percent of each group of respondents (based on birth place) switched from not Hispanic in Census 2000 to Hispanic in the CPS, while around one percent switched the other way.

Central [\[41\]](#) and South American [\[42\]](#) Countries. About 4 percent of those born in countries specified as Central America or South America reported as "not Hispanic" in both collections. On the other hand, 83 percent of Central Americans and 78 percent of South Americans reported as "Hispanic" in both collections. In addition, about 4.6 percent of Central Americans and about 5.3 percent of South Americans switched from not Hispanic in Census 2000 to Hispanic in CPS. About 4.4 percent and 8.3 percent, respectively, switched the other way (Not Hispanic in CPS to Hispanic in Census 2000).

Dominican Republic. About 77 percent of those born in the Dominican Republic identified as Hispanic in both the CPS and Census 2000. However, 17 percent of those born in the Dominican Republic switched from Hispanic in Census 2000 to not Hispanic in the CPS, compared with 2.1 percent who went the other way. Almost 3 percent reported "no answer" in Census 2000 and "Hispanic" in CPS. Clearly, the CPS does not identify a large proportion of those born in the Dominican Republic as Dominican, but at least some of them must have been confused by the questions as well.

Spain. About 17.2 percent of these born in Spain consistently report as "not Hispanic" while about 26.6 percent report consistently as "Hispanic" in both CPS and Census 2000. About 51 percent of the foreign born from Spain said they were "not Hispanic" in CPS and

"Hispanic" in Census 2000 compared with none who went the other way.

Other Places of Birth. Respondents from other places of birth, such as the Philippines, Portugal, or Brazil, also appear to have some confusion about whether they should identify as "Hispanic" or not Hispanic.

**II. Race. (Summary of this section is not included. For more information please see Working Paper #79**

**<http://www.census.gov/population/www/documentation/twps0079/twps0079.html>.)**

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## Footnotes

<sup>[1]</sup> Participants included speakers from the U.S. and Canada, as well as Britain, Australia, Malaysia, and the former USSR.

<sup>[2]</sup> The terms Spanish, Hispanic, and Latino are used interchangeably in this paper.

<sup>[3]</sup> Cresce, et al. (2004).

<sup>[4]</sup> The question change introduced throughout 2002 was fully implemented by the beginning of 2003, so that all the CPS panels were using the new question by the beginning of the new year. This was the first and only change in the question in the 35 years the CPS has collected Hispanic origin data.

<sup>[5]</sup> Appendix B summarizes a portion of a paper by Del Pinal and Schmidley (2005) examining Matched Race and Hispanic Origin Responses from Census 2000 and Current Population Survey February to May 2000.

[6] Statistics Canada and US Bureau of the Census, Challenges of Measuring an Ethnic World: Science, politics and reality US Government Printing Office, Washington, DC, 1993.

[7] For example, surname was considered a 'proxy' for Spanish Origin in the 1970 Census.

[8] The basic or monthly Current Population Survey captures information about age, race, sex, descent/origin, and nativity status (1994-current). Supplemental questions have been added on both an occasional and periodic basis. For example, the nativity questions adapted in 1994 on a periodic basis were included on a temporary basis in the 1969 basic questionnaire.

[9] Occasionally a sample housing unit is discovered to be a group quarters after the field representative (FR) begins interviewing. Nevertheless, the FR collects information about each person living in the unit and that information is included in the CPS 'person' file. These cases are identified as "in group quarters" on the person file and omitted from the household file. College students in dorm rooms whose usual place of residence is a parental home are classified as part of the CPS household population even though they could be considered members of the GQ population. See Figure 7-5 "Summary table for determining who is to be included as a member of the household" page 7-6 , in Design and Methodology, Current Population Survey Technical Paper 63RV, U.S. Bureau of the Census, Washington DC, March 2000.

[10] Census 2000 definitions of household and group quarters populations can be found in 'Appendix B. Definitions', Census 2000 Summary File 1 United States, U.S. Bureau of the Census, Washington DC, 2000. See Design and Methodology, Current Population Survey Technical Paper 63RV, U.S. Bureau of the Census, Washington DC, March 2000, pages 3-7 for CPS definitions.

[11] For more information about the differences between the census and CPS universes, see Schmidley, D. (2002). Appendix C."Comparison of Population Universes" . Page 67.

[12] Much of the material in Section 4.2 is excerpted from Schmidley and Robinson (2003)

[13] See Design of the Current Population Survey Sample, pp. 3-1 to 3-17 in Design and Methodology, Current Population Survey Technical Paper 63RV, U.S. Bureau of the Census, Washington DC, March 2002.

[14] For more information see "Appendix D. Derivation of Independent Population Controls", Current Population Survey: Design and Methodology, Technical Paper No. 63RV. Washington DC, March 2002.

[15] As soon as possible after the census, the demographic estimates are re-calibrated. The application of these newly benchmarked weights does not take place immediately, however. For example, following the 1990 census the weights were introduced to the CPS in 1993. In contrast, the Census 2000 weights were introduced to the CPS in 2001.

[16] Schmidley, D. and Campbell Gibson. (1999). "Section 1. 'Trends in Immigration and the Foreign-born Population'".

[17] Persons of Spanish Origin in the United States: November 1969. (P20, No. 213):1971.

[18] The 1940 census was the first to include tabulations on the 'White population of Spanish mother tongue.' See, Gibson and Jung. (2002); however, the wording of the new CPS "Origin" question was specifically designed to collect information for all persons. See Cresce, A.,. et al (2004) and Schmidley and Robinson (2003).

[\[19\]](#) The birthplace question has continued to be part of the Census and ACS questionnaires, however, the parental nativity questions have not appeared on the census form since 1970, and have never appeared on the ACS questionnaire. Examples of the CPS nativity questions can be found in "Appendix A" of Schmidley and Robinson.(2003).

[\[20\]](#) Mexican or Chicano, Puerto Rican, Cuban, Central or South American, and Other Spanish were combined to create Total Hispanic.

[\[21\]](#) Those responding "some other Spanish, Hispanic, or Latino group" to the first question.

[\[22\]](#) There is no statistical difference between the two numbers 14.5 million and 14.6 million.

[\[23\]](#) The greater articulation of Hispanic detail is a function of the increased number of response options.

[\[24\]](#) Percentages in this paragraph used the responses to the old Hispanic question as a denominator. People born in Puerto Rico are automatically citizens of the United States and thus natives; thus the value shown in Table 4-B is a statistical artifact.

[\[25\]](#) There is no statistical difference between the two values for Puerto Rico (92.8 percent) and Cuba (93.4 percent). Given trends in international migration, it may be presumptuous to assume a relationship between birthplace and ethnicity for any group.

[\[26\]](#) The number of eligible households was increased from 50,000 to 60,000. Of the eligible basic households, approximately 56,000 were actually interviewed monthly.

[\[27\]](#) The SCHIP and minority samples cover Hispanic and race groups.

[\[28\]](#) Proctor (2001). "Appendix B. Sample Expansion and Introduction of Census 2000-Based Population Controls". Page 32.

[\[29\]](#) Beginning in January 2003, the CPS included a new race question that will likely lead to additional changes. For more information about the development of the 1990 MARS file, see 'Modification of the census race and age distributions,' page D-14 in "Appendix D. Derivation of Independent Population Controls", Current Population Survey: Design and Methodology, Technical Paper No. 63RV. Washington DC, March 2002.

[\[30\]](#) A 1990 type file was obviated by changes in the Census 2000 age question. However, a modified race file was created. See Modified Race Data Summary File, 2000 Census of Population and Housing Technical Documentation. Issued September 2002 by the U.S. Census Bureau, Washington DC.

[\[31\]](#) Official CPS data released through December 2001 reflect the 1990 benchmark.

[\[32\]](#) Monthly estimates before 1994 were benchmarked to the 1980 Census. The marked increase between December 1995 and January 1996 is owing to a sample cut in the ten largest states. Apparently, the cut disproportionately affected the Hispanic populations.

[\[33\]](#) The new controls slightly modified the stated size of the Hispanic population groups under age 18 or age 65 years and over, but they changed the stated employment and unemployment rates by very little. On the other hand, the Hispanic labor force universe, which is primarily concentrated in the ages 18 to 65, was increased by 1.8 million when the new weights were applied. Although the apparent size of the education universe increased by about one million, the rate of Hispanics attaining bachelor's degrees was the same under the old and new controls. Similarly, the child poverty rate was unaffected, and the poverty rate of those age 65 and older affected



minimally, by the population control changes, although the control changes increased the stated absolute number in poverty. All of these apparent changes were strictly due to changes in the population controls (weights) and did not involve statistical (sample) change.

<sup>[34]</sup> Although the switch to the new question began in 2002, it was not fully implemented until January 2003.

<sup>[35]</sup> Prior to 2000, post-census second-stage weight changes, sample redesign, and in the early 1990s the introduction of the CATI/CAPI interview technique produced a combined effect on the CPS totals. Following Census 2000, these changes were introduced sequentially, thus allowing analysts to decompose and examine their effects. Schmidley and Robinson (2003) discuss these changes with regard to the foreign-born population which is highly correlated with the Hispanic population.

<sup>[36]</sup> <http://www.census.gov/population/www/socdemo/hispanic.html>.

<sup>[37]</sup> Recall from the discussion in the preceding section that the application of new weights does not generally affect the measurement of characteristics.

<sup>[38]</sup> In addition, the members of detailed groups tend to cluster, i.e. are not randomly distributed across the US, so as the CPS sample panels change the likelihood of selection changes as geographic shifts in the primary sampling units occurs.

<sup>[39]</sup> Two implied comparisons in this paragraph are not statistically significant: 2003 Cuban (93.4 percent) is not different from 2003 Puerto Rican (92.8 percent), and 2004 Cuban (95.7 percent) is not different from 2004 Puerto Rican (95.8 percent).

[\[40\]](#) A P23 report every three years and a one-page "update" to release a table package in the intervening years.

[\[41\]](#) Specific Central American places of birth were Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama, and "Other Central America."

[\[42\]](#) Specific South American places of birth were Argentina, Bolivia, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay, Venezuela and "Other South America."

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Source: U.S. Census Bureau, Population Division

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