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Authors

Duncan, Brian Hotz, V. Joseph Trejo, Stephen J.

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Hispanics in the U.S. Labor Market*

Brian Duncan

Department of Economics University of Colorado at Denver bduncan@carbon.cudenver.edu

V. Joseph Hotz

Department of Economics University of California at Los Angeles hotz@econ.ucla.edu

Stephen J. Trejo

Department of Economics University of Texas at Austin trejo@eco.utexas.edu

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I. Introduction

As we have seen in the first two chapters of this volume, Hispanics constitute a large and rapidly growing segment of the U.S. population. Much of the public debate and controversy concerning Hispanics focuses on their integration and success in the U.S. labor market. In this chapter, we summarize some of what is currently known about these issues. We focus on employment and earnings as our measures of labor market success. We also examine the educational attainment of Hispanics, given its crucial role in labor market success. We consider four different but complementary perspectives.

We begin by examining Hispanics and their subgroups that currently reside in the U.S., based on data from the 2000 Census of Population. We focus on how foreign versus U.S.-born Hispanics differ in an important indicator of human capital, namely their educational attainment. We then document the differences that exist between Hispanics, their subgroups, whites and blacks in employment and earnings. Finally, we ask how much of these differences can be accounted for by differences in years of schooling, English language proficiency, and potential work experience. Two conclusions emerge from this analysis. First, we confirm the findings in Barbara Schneider's chapter and numerous other studies that Hispanics have markedly lower levels of educational attainment than do whites or blacks and that these educational deficits are more pronounced for the foreign born. Second, while the employment and earnings of Hispanics tend to lag behind those of whites, almost all of the differences relative to whites can be accounted for by a relatively small number of measures of human capital, namely, years of schooling, English proficiency, and potential work experience.

We next examine the early life cycle patterns of schooling and work for Hispanics relative to blacks and whites, using data on cohorts who reached adulthood during the late 1980s

and 1990s. In this analysis, we focus on two issues arising from the role that the Hispanic educational deficit plays in accounting for their relative employment and earnings differentials. First, we examine exactly what sorts and amounts of work experience Hispanics accumulated during early adulthood. We know that Hispanics accumulated less education over their early adulthood. But do they compensate by accumulating more work experience to offset some of their educational deficit? Second, we examine whether Hispanics realized the same financial "returns" from their accumulated work experience and schooling. Previous studies of other minority groups suggest that they do not realize the same gain from an additional year of schooling or work experience as do whites. Whether these differences reflect evidence of labor market discrimination or unmeasured differences in the quality of schooling and the amount of actual work experience is less certain. But, at issue is whether observed measures of human capital have different impacts on the degree of labor market success by race or ethnicity.

In the final section of the paper, we focus on how the labor market attainment of Hispanics in the U.S. has changed over time and across generations. Analyzing whether there has been secular and generational progress among Hispanics in the U.S. is important for at least three reasons. First, the above analysis was performed on Hispanics during a period of substantial change in the structure of the U.S. labor market that tended to be decidedly less favorable for less-skilled workers in the U.S. As a result, it is important to assess, if only somewhat speculatively, how important this restructuring was for the lower levels of labor market attainment experienced by Hispanics in the U.S. Second, knowing how things have changed is an essential ingredient for forecasting what will happen to the labor market attainment of this growing and increasingly important segment of the U.S. population. Third, assessing how things have changed across generations is essential because of the immigrant nature of Hispanics. The

immigrants of today will be the parents and grandparents of future generations of Hispanics and it is of critical important to understand the degree of their intergenerational assimilation into the U.S. labor market.

II. The Current Scene: The Labor Market Attainment of Hispanics

A. Human Capital

Time and time again, researchers have found that indicators of labor market disadvantage for U.S. Hispanics, such as earnings deficits or employment gaps with respect to white workers, are in large part explained by relatively low levels of human capital. Accordingly, we begin by describing, in broad terms, the labor market skills possessed by Hispanic-Americans and how these skills compare with those of non-Hispanics.

One of the most important and easiest to observe dimensions of human capital is educational attainment, and an earlier chapter in this volume has documented the obstacles faced by Hispanic children in U.S. schools. Table 6-1 shows the substantial gaps in completed education that exist for Hispanic adults. Based on microdata from the 2000 Census, the table reports average years of schooling—by gender, ethnicity, and nativity—for individuals between the ages of 25 and 59.² In addition to presenting statistics for Hispanics as an aggregate group, we display separate results for Mexicans, Puerto Ricans, and Cubans, the three Hispanic national origin groups with the largest U.S.-born populations.³ We also present comparable statistics for

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¹ See, for example, Gwartney and Long (1978); McManus, Gould, and Welch (1983); Reimers (1983); Cotton (1985); Bean and Tienda (1987); Carlson and Swartz (1988); DeFreitas (1991); Smith (1991, 2001); Carnoy, Daley, and Hinojosa-Ojeda (1993); Darity, Guilkey, and Winfrey (1995); Trejo (1996, 1997, 2003); Altonji and Blank (1999); Bean, Trejo, Capps, and Tyler (2001); Antecol and Bedard (2002, 2004); Grogger and Trejo (2002), and Bean and Stevens (2003).

² We focus on individuals in this age range because they are old enough that virtually all of them have completed their schooling, yet they are young enough that observed labor market outcomes reflect their prime working years.

³ Appendix Table 6-1 reports standard errors and sample sizes for the estimates in Table 6-1, as well as analogous calculations for other Hispanic subgroups. Throughout this chapter, Appendix tables provide further details of the tables and charts presented in the text. All statistics reported in this chapter make use of the relevant sampling

non-Hispanic whites and non-Hispanic blacks, with both of these latter groups restricted to individuals who were born in the United States. 4 U.S.-born whites provide a vardstick for measuring Hispanic outcomes against those of the primary native "majority" group in American society, whereas U.S.-born blacks are an important native "minority" group that is instructive to compare with Hispanics.

Table 6-1 shows that educational patterns are very similar for men and women. For Hispanics overall, immigrants average less than ten years of schooling, but mean educational attainment rises sharply to over twelve years for U.S.-born Hispanics. Despite this sizeable improvement associated with nativity, U.S.-born Hispanics trail the average educational attainment of whites by more than a year, and they even trail the educational attainment of blacks. Consequently, Hispanic educational attainment is low not just in comparison with advantaged groups in American society such as whites, but also in comparison with disadvantaged minority groups such as blacks.

Among the Hispanic subgroups, Mexicans and Puerto Ricans display the same general patterns as Hispanics overall, with substantial schooling growth between immigrants and the U.S.-born, yet a large educational deficit relative to whites that persists even for the U.S.-born. Average education levels among the foreign-born, however, are much lower for Mexicans than for Puerto Ricans (eight and one-half years versus more than eleven years, respectively), but Mexicans experience bigger gains for the U.S.-born, thereby shrinking to a half year or less the educational gap between U.S.-born Mexicans and Puerto Ricans. Cubans stand out from the

weights.

⁴ We identify Hispanics and Hispanic subgroups using the Census information regarding country of birth, Hispanic origin, and ancestry. Among non-Hispanics, we identify whites and blacks using the Census information on race. For Hispanics and blacks, we employ the full 5 percent samples of the population available in Census microdata, but to lighten the computational burden we randomly sample whites (at a 1 in 10 rate) so as to end up with a 0.5 percent sample of the white population.

other groups with notably high levels of educational attainment. In terms of average schooling, Cuban immigrants exceed U.S.-born Mexicans and approach the level of U.S.-born Puerto Ricans, and U.S.-born Cubans equal (for men) or surpass (for women) the educational attainment of whites. More detailed tabulations reveal that the schooling deficits (relative to whites) of U.S.-born Hispanics, in general, and of Mexican-Americans and Puerto Rican Americans, in particular, emanate from differences at the extremes of the educational distribution. U.S.-born Mexicans and Puerto Ricans are much more likely to be without a high school diploma and much less likely to earn a bachelor's degree than are non-Hispanic whites (Bean, Trejo, Capps, and Tyler, 2001).

For Hispanic immigrants, a critical aspect of their human capital is that much of it was acquired outside of the United States. The foreign schooling and work experience that Hispanic immigrants bring with them transfer only imperfectly to the U.S. labor market, in that U.S. employers typically place a lower value on human capital acquired abroad than on that acquired here (Chiswick, 1978, Schoeni, 1997). As a result, even after conditioning on age, education, and other observable indicators of human capital, labor market outcomes are likely to differ between foreign-born Hispanics and U.S.-born Hispanics (or between foreign-born Hispanics and U.S.-born whites), because of differences in the returns to human capital for foreign-born and U.S.-born workers. For this reason, nativity plays a key role in shaping the labor market success of Hispanics, and it is essential that labor market analyses of U.S. Hispanics distinguish between immigrants and the U.S.-born.

English language proficiency is an important dimension of human capital closely related to nativity. Census microdata provide self-reported information on English ability, and we display some of this information in Figure 6-1.⁵ All respondents were asked whether they "speak a language other than English at home," and only those who answered affirmatively were asked how well they speak English, with possible responses of "very well," "well," "not well," or "not at all." For the tabulations presented in Figure 6-1, English monolinguals are presumed to speak English "very well" and are grouped together with bilinguals who indicated the highest level of English proficiency.

By this accounting, only a third of Hispanic immigrants speak English "very well," but the proportion approaches 90 percent for U.S.-born Hispanics. Even among U.S. natives, however, the English proficiency of Hispanics falls somewhat short of the 99 percent rates observed for blacks and whites. Given the substantial penalties that the U.S. labor market assesses for English deficiencies (Bleakley and Chin, 2004; Grenier, 1984; McManus, Gould, and Welch, 1983; Mora, 1998), the language gaps observed in Figure 6-1 can explain a considerable portion of Hispanic employment and earnings deficits, especially for immigrants, but also to some extent for U.S.-born Hispanics. In addition, English language proficiency varies across Hispanic subgroups. Among immigrants, Mexicans have the lowest rate of English proficiency (with 26 percent speaking the language "very well"), whereas the corresponding rate is around 50 percent for Cubans and still higher for Puerto Ricans. Differences are much less pronounced for U.S.-born Hispanics, with rates just under 90 percent for Mexicans and Puerto Ricans and a somewhat higher rate for Cubans.

A key feature of Hispanic immigration is that much of it is undocumented. Given the clandestine nature of undocumented immigration, this population is difficult to observe, but some credible information is available nonetheless. Passel, Capps, and Fix (2004) estimate that

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⁵ More detailed information is reported in Appendix Table 6-2.

Latin Americans made up 80 percent of the undocumented immigrants living in the United States as of March 2002, with Mexicans alone accounting for 57 percent of the undocumented population. Moreover, these same authors estimate that undocumented immigrants represent a quarter of the total foreign-born population in the United States, and Passel (2004) indicates that the share of undocumented immigrants is much higher among foreign-born Hispanics, particularly for recent immigrants. Indeed, Passel (2004) reports that over 80 percent of all Mexican immigrants who arrived in the United States after 1990 were undocumented as of March 2002.

Does undocumented status, by itself, hurt the labor market opportunities of Hispanic immigrants? If so, by how much? Unfortunately, most sources of information about U.S. immigrants, including the Census and Current Population Survey data that we analyze in this chapter, do not identify undocumented immigrants, so our analyses will not be able to control for the legal status of Hispanic immigrants. Other studies, however, have exploited unique surveys to shed light on this issue. Massey (1987), for example, compares the U.S. wages earned by legal and illegal immigrants originating in four Mexican communities. He reports that undocumented Mexican immigrants earn substantially less, on average, then legal Mexican immigrants, but he also shows that this wage gap is explained by the lower human capital possessed by undocumented immigrants, particularly with regard to English proficiency and U.S. work experience. After controlling for observable determinants of earnings, Massey finds that legal status per se has little direct effect on U.S. wages for the Mexican immigrants in his sample. Donato and Massey (1993), however, obtain a different result when they conduct a similar analysis of later and more extensive data from 13 Mexican communities. In these later data, undocumented status reduces wages by about 20 percent, even after controlling for observables.

Perhaps the best evidence on the labor market impact of undocumented status comes from a survey that tracked the experiences of initially undocumented immigrants before and after they were granted permanent legal resident status through the amnesty provisions of the 1986 Immigration Reform and Control Act (IRCA). Despite using somewhat different approaches, Rivera-Batiz (1999) and Kossoudji and Cobb-Clark (2002) reach similar conclusions. First, holding observable skills constant, estimates suggest that legalization raised the wages of these workers by about 5-10 percent relative to what their wages would have been had the workers remained undocumented. Second, by increasing the incentives for these workers to invest in human capital, legalization also may have induced greater skill acquisition and thereby boosted wages through this indirect channel. Clearly, legal status is an important factor underlying the huge earnings deficits for Hispanic immigrants (relative to U.S.-born whites) that we will document below, and this is especially true for recent immigrants from Mexico and Central America. Nevertheless, undocumented immigration assumes a minor role in the Hispanic labor market story compared to the leading role played by human capital. Indeed, we show below that, even without controlling for legal status, all or most of the earnings deficits of Hispanic immigrants can be explained by their low levels of education and English proficiency.

B. Employment

The success of Hispanics in the U.S. labor market heavily depends on their propensity to work and the kinds of jobs they are able to secure. We now turn to a discussion of these issues, highlighting the important influence of human capital.

Table 6-2 reports annual employment rates for whites, blacks, and Hispanics, by gender and nativity. The annual employment rate is defined as the percentage of individuals who

worked at all during the calendar year preceding the Census.⁶ For men, the overall Hispanic employment rate of 87 percent is somewhat lower than the 92 percent rate for U.S.-born whites but well above the 77 percent rate for U.S.-born blacks. Among Hispanic men, Mexicans, and Cubans are employed at similar rates, and these rates vary only modestly with nativity, whereas the lower rates observed for Puerto Ricans (80 percent, overall) are markedly higher for the U.S-born (84 percent) than the foreign-born (77 percent).⁷

For Hispanic women, Table 6-2 highlights the important role that nativity plays in employment determination. For every national origin group, employment rates are at least 10 percentage points lower for immigrants than for U.S. natives, with this immigrant-native gap reaching 20 percentage points for Mexicans. Among U.S.-born women, the employment rates of 76 percent for Mexicans and Puerto Ricans are close to the corresponding rates for blacks (78 percent) and whites (80 percent), and the 83 percent rate for Cubans is highest of all.

How much does the human capital deficit of U.S. Hispanics contribute to their employment gap? The next two graphs address this question, with results for men presented in Figure 6-2 and those for women in Figure 6-3. To highlight ethnic differences, these graphs show the percentage point gap between the employment rate of each group and the corresponding rate for U.S.-born whites. A positive gap implies that whites have a higher employment rate than the group in question, whereas a negative gap indicates the opposite.⁸ The

⁶ See Appendix Table 6-3 for further details. Another possible measure of labor supply is annual hours of work. Compared to the employment rate, this measure has the advantage of reflecting the intensity as well as the incidence of work. It turns out, however, that the relevant patterns for annual hours are similar to those for employment, so we present only the results for employment.

⁷ Appendix Table 6-3 shows that Dominican men also have relatively low employment rates. Unlike the situation for Puerto Ricans, however, employment rates are similar for foreign-born and U.S.-born Dominicans.

⁸ The employment gaps shown in Figures 6-2 and 6-3 are based on the estimates reported in Appendix Table 6-4. In the graphs, however, the estimates in Table 6-4 have been first multiplied by 100 to transform them into percentage point differentials, and then their signs have been reversed so that they represent employment *deficits*, rather than *differences*, relative to U.S.-born whites.

top panel of each figure displays the employment gaps that remain after using regression analysis to control for the influence of geographic location and age.⁹ The bottom panel of each figure shows what happens to the estimated employment gaps when the underlying regressions also control for completed years of schooling and English language proficiency.¹⁰

The main lesson from Figures 6-2 and 6-3 is that the human capital disadvantage of Hispanics can account for most of their employment deficit. Indeed, after conditioning on educational attainment and English proficiency, Hispanic employment gaps (relative to U.S.-born whites) tend to vanish. For example, after adjusting for age and geographic location, Mexican men have employment deficits of 5-6 percentage points, but controlling for human capital lowers the deficit to 2 percentage points for U.S.-born Mexican-Americans and creates a large employment advantage for Mexican immigrants. Foreign-born Mexican women provide an even more striking case, as controlling for education and language cuts their employment deficit from 25 percentage points down to just 3 percentage points. Puerto Ricans are an exception to this pattern, however. For immigrants, both men and women, and for U.S.-born men, large Puerto Rican employment gaps shrink substantially after conditioning on human capital, but even the adjusted gaps remain sizeable. 11

Do Hispanic workers fill particular roles in the U.S. economy? Table 6-3 examines one

⁹ Separate least squares regressions are run for men and women. The dependent variable is a dummy variable indicating whether the respondent worked at all during the calendar year preceding the Census. These regressions allow intercepts to differ across ethnicity/nativity groups (with U.S.-born whites as the reference group), but the coefficients of the control variables are restricted to be the same for all groups. The control variables include indicators for geographic location and age. The geographic indicators are dummy variables identifying the nine Census divisions, eight states that are home to a large proportion of the Hispanic population in the United States (California, Texas, Florida, New York, New Jersey, Illinois, Arizona, and New Mexico), and whether the respondent resides in a metropolitan area. The age indicators are dummy variables identifying the five-year age group (i.e., 25-29, 30-34, ..., 55-59) to which each respondent belongs.

¹⁰ The controls for English proficiency are a set of dummy variables identifying whether respondents speak a language other than English at home, and, if so, how well such individuals report being able to speak English: "very well," "well," or "not at all."

¹¹ Appendix Table 6-4 shows that U.S.-born Dominican men display a similar pattern.

facet of this question: the propensity to be self-employed. Among individuals ages 25-59 who were employed during the Census reference week, Table 6-3 reports the percentage that mainly worked in their own business (whether incorporated or not). Overall, Hispanic self-employment rates lie between the corresponding rates of blacks and whites, with substantial variation across Hispanic subgroups. Cubans, both men and women, are self-employed at relatively high rates, with the rate for foreign-born Cuban males (17 percent) exceeding the rate for U.S.-born white males (14 percent). Puerto Ricans, both island-born and U.S.-born, have low self-employment rates (6 percent for men and 4 percent for women) that are similar to those of African-Americans. Mexican self-employment rates generally fall between the rates of the other two Hispanic groups, although foreign-born Mexican women have a relatively high rate (8 percent), as do several other groups of immigrant women such as Salvadorans/Guatemalans (11 percent), Other Central Americans (8 percent), Colombians (12 percent), Peruvians/Ecuadorans (9 percent), and Other South Americans (12 percent). Much of this self-employed work by Hispanic immigrant women is in domestic service.

For self-employment rates, it turns out that controlling for geographic location and human capital (i.e., age, education, and English proficiency) accounts for little of the differences between Hispanics and whites or of the variation across Hispanic subgroups. ¹⁴ Several theories have been advanced to explain why self-employment rates vary across immigrant national origin groups and across native ethnic groups, but these theories all have trouble providing a consistent explanation for the differences observed over a wide range of groups (Fairlie and Meyer, 1996; Portes and Rumbaut, 1990:71-79).

¹² See Appendix Table 6-5 for further details.

¹³ See Appendix Table 6-5.

¹⁴ See Appendix Table 6-6. Also see Fairlie and Meyer (1996).

Table 6-4 examines another aspect of how Hispanic workers fit into the U.S. labor market: the kinds of jobs that they fill. For individuals ages 25-59 who were employed during the Census reference week, Table 6-4 presents their percentage distributions across eight major industry and six major occupation categories. ¹⁵ In each column, the industry percentages sum to 100 percent and the occupation percentages sum to 100 percent, except for rounding error.

At this broad level of aggregation, the important sectoral differences are related to nativity rather than to ethnicity. The industry and occupation distributions of Hispanic immigrants are quite distinct from those of any of the native groups, whereas much smaller differences exist between U.S.-born Hispanics and whites. Hispanic immigrant men disproportionately work in agriculture (11 percent) and construction (18 percent), and Hispanic immigrant women are particularly overrepresented in manufacturing (19 percent). Foreign-born Hispanics of both sexes are underrepresented in the managerial/professional and technical/sales occupations, which is not surprising given the low education levels and imperfect English skills of many Hispanic immigrants, and they are overrepresented in the service and operators/laborers occupations.

The index of dissimilarity (Duncan and Duncan, 1955) provides a useful summary measure of the extent to which two distributions differ. In the current context, for example, the dissimilarity index comparing the industry distributions of U.S.-born Hispanics and whites represents the percentage of Hispanic workers (or, equivalently, white workers) who would have to change industries in order to make the industry distributions identical for these two groups of

¹⁵ The complete names of the industry and occupation categories are as follows. The eight major industry categories are (1) Agriculture, Forestry, Fishing, Hunting, and Mining; (2) Construction; (3) Manufacturing; (4) Transportation, Communications, and Other Public Utilities; (5) Wholesale and Retail Trade; (6) Finance, Insurance, Real Estate, and Rental and Leasing; (7) Services; and (8) Public Administration. The six major occupation categories are (1) Managerial and Professional Specialty Occupations; (2) Technical, Sales, and Administrative Support Occupations; (3) Service Occupations; (4) Farming, Forestry, and Fishing Occupations; (5) Precision Production, Craft, and Repair Occupations; and (6) Operators, Fabricators, and Laborers.

workers. The index can range between 0 and 100 percent, with higher values indicating larger differences between the two industry distributions. In practice, the index values obtained in a particular application depend upon how coarsely or finely sectors are defined, with broad industry and occupation categories such as those used here producing lower values of the index.

Dissimilarity indices comparing the industry or occupation distributions of U.S.-born whites with the corresponding distributions for each of the other ethnicity/nativity groups confirm the visual impression from Table 6-4 that U.S.-born Hispanics are the most similar to whites, followed by blacks, and then by Hispanic immigrants. For the industry comparisons, the dissimilarity indices for male workers are 5.7 for U.S.-born Hispanics, 8.5 for blacks, and 16.1 for foreign-born Hispanics. For women, the analogous indices are 3.0 for U.S.-born Hispanics, 7.9 for blacks, and 12.5 for foreign-born Hispanics. Similar patterns emerge for the occupational distributions, with male indices of 11.5 for U.S.-born Hispanics, 18.9 for blacks, and 29.5 for foreign-born Hispanics, and indices of 7.2, 9.7, and 34.2 for U.S.-born Hispanic, black, and foreign-born Hispanic women, respectively.

C. Earnings

Perhaps the ultimate indicator of labor market success is earnings, since earnings reflect the market's valuation of a worker's entire package of abilities and attributes, including those abilities and attributes for which data are often lacking (e.g., family background or the quality of schooling). Researchers have consistently found that, after controlling for human capital and observable skills, Hispanic workers enjoy earnings opportunities roughly similar to those of non-Hispanic whites (e.g., Antecol and Bedard, 2002; Bean, Trejo, Capps, and Tyler, 2001; Grogger and Trejo, 2002; McManus, Gould, and Welch, 1983; Reimers, 1983; Smith, 1991; Trejo, 1997). This finding for Hispanics contrasts with analogous research that shows that the earnings deficits

of African-American men shrink only modestly upon adjusting for standard control variables (Altonji and Blank, 1999; Neal and Johnson, 1996).

To illustrate these patterns, Figures 6-4 and 6-5 display annual earnings gaps for Hispanics and blacks. ¹⁶ The graphs show the estimated percentage earnings deficits for each group relative to U.S.-born whites. ¹⁷ The samples include individuals ages 25-59 who worked during the calendar year preceding the Census. ¹⁸ Figure 6-4 presents the results for men and Figure 6-5 gives the corresponding results for women. As with the similar graphs of employment deficits shown earlier (Figures 6-2 and 6-3), the top panel of each figure displays earnings gaps after adjusting only for geographic location and age, whereas the bottom panel also adjusts for education and English proficiency.

Without controls for human capital (i.e., the top panels of Figures 6-4 and 6-5), earnings

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¹⁶ Our measure of earnings includes any income from self-employment. Annual earnings variation across ethnicity/nativity groups reflects differences in annual hours of work as well as differences in hourly wages. Patterns for hourly wages, however, are similar to those we report here for annual earnings.

 $^{^{17}}$ The estimated deficits come from regressions similar to those that underlie Figures 6-2 and 6-3 except that now the dependent variable is the natural logarithm of annual earnings. The key estimates from these log earnings regressions are reported in Appendix Table 6-7. For ease of exposition, in the text and in Figures 6-4 and 6-5, we will refer to the estimated log earnings differentials from Table 6-7 as if they represented percentage earnings gaps. Strictly speaking, however, log earnings differentials closely approximate earnings gaps only when the log earnings differentials are on the order of .25 or less in absolute value. For larger differentials, the implied percentage earnings gap can be calculated as $e^c - 1$, where c is the log earnings differential (i.e., the relevant estimate from Table 6-7).

¹⁸ The fact that earnings information is unavailable for those without jobs can distort earnings comparisons like those shown in Figures 6-4 and 6-5. For example, suppose that individuals with lower earnings potential are less likely to be employed than those with higher skills and better labor market opportunities. In this case, the average earnings we observe, in the sample of people with jobs, are higher than what they would be if we somehow had information on the earnings potential of all individuals, including those without jobs. Most importantly, the upward bias in observed average earnings will be larger for groups with relatively low employment rates, such as black and Puerto Rican men and immigrant Hispanic women, because for these groups a larger share of potentially lowearnings individuals will be excluded from the analysis samples. In an attempt to mitigate this problem, we present earnings comparisons that control for observable indicators of skill such as age, education, and English proficiency, but the potential for bias remains to the extent that there are other important, unobserved determinants of labor market skills and earnings that are correlated with employment rates. This point should be kept in mind when interpreting the results reported in Figures 6-4 and 6-5. Under certain circumstances, statistical techniques can be used to adjust earnings averages for the effects of employment differences across groups (Heckman, 1979), but the Census data analyzed here do not provide the information necessary to make credible adjustments of this type. Later in this chapter, however, when we present estimates from longitudinal data of life cycle patterns of human capital accumulation and wage growth, we will discuss findings from research that does attempt to control for this form of selection bias as well as the endogeneity of work experience.

gaps narrow sharply as we move from Hispanic immigrants to U.S.-born Hispanic Americans. For Hispanics overall, the male earnings deficit falls from 59 percent for immigrants to 31 percent for U.S. natives, and the corresponding reduction is even larger for Hispanic women, from 49 percent to 12 percent. Among both men and women, Mexicans exhibit the largest earnings growth between immigrants and natives, but substantial growth of this sort also occurs for Puerto Ricans and Cubans, as well as for the other Hispanic subgroups reported in Appendix Table 6-7. U.S.-born Cubans, in particular, possess relatively high earnings. Indeed, even without adjustments for education and English proficiency, Cuban-American men earn the same as native white men, on average, and Cuban-American women earn 20 percent *more* than their white counterparts. Finally, note that the earnings deficit of 44 percent for African-American men is considerably larger than that for U.S.-born men from any Hispanic subgroup.

The bottom panels of Figures 6-4 and 6-5 show what happens to these earnings gaps when we condition on schooling and language. For every Hispanic group with a sizeable initial earnings deficit, controlling for education and English proficiency produces a dramatic reduction in their deficit. For men, Figure 6-4 reveals that this adjustment shrinks the earnings gap from 59 percent to 5 percent for Hispanic immigrants and from 31 percent to 13 percent for U.S.-born Hispanics. In contrast, the same adjustment reduces the earnings deficit of African-American men only from 44 percent to 35 percent. Consequently, low human capital explains a much bigger portion of the earnings disadvantage of Hispanic men (relative to whites) than it does for black men. Moreover, after accounting for the admittedly crude measures of labor market skill available in Census data—age, educational attainment, and English proficiency—the annual earnings gap of U.S.-born Hispanic men falls to 13 percent, whereas the corresponding earnings gap for black men is 35 percent. In other words, after conditioning on observable skills,

Hispanics face labor market opportunities much more similar to those faced by whites than do blacks.

Figure 6-5 shows that the earnings patterns are largely the same for women. In fact, the effects of controlling for human capital are even more striking in this case, as the adjusted earnings deficit vanishes for every group of Hispanic women, regardless of nativity or national origin. Therefore, after adjusting for differences in schooling and English proficiency, all groups of Hispanic women have average annual earnings as high as those of U.S.-born white women. In contrast to the situation for African-American men, however, African-American women display a modest earnings disadvantage relative to white women that disappears after conditioning on schooling.

We have seen that, for both employment and earnings, Hispanic-white differences are in large part explained by the relatively low human capital of most Hispanic groups. The estimates reported in the bottom panels of Figures 6-2 to 6-5, however, derive from regression specifications that constrain the impact of schooling and other measures of human capital to be the same for all ethnicity/nativity groups. Because U.S.-born whites make up the bulk of the population, the estimated labor market "returns" to our measures of human capital mainly reflect the returns for this dominant group. As a result, the education-adjusted employment and earnings deficits presented here reflect the quality as well as the quantity of schooling. These deficits represent the gaps relative to U.S.-born whites that would exist if Hispanics possessed as much education as whites and also earned the same labor market reward for education as whites. To the extent that differences in the returns to schooling across ethnicity/nativity groups arise from labor market discrimination rather than from differences in the quality of schooling, however, then the education-adjusted employment and earnings gaps we present may overstate the role

that human capital disparities play in the economic disadvantage of Hispanics. We return to the issue of differences in the returns to human capital by ethnicity and nativity in the next section.

Another issue that arises when attempting to adjust for human capital differences between workers is how to control for work experience. The results presented in the bottom panels of Figures 6-2 to 6-5 control for age, as well as years of schooling and English proficiency. By simultaneously controlling for age and education, these regressions implicitly hold constant potential work experience, which is typically measured as Age – Years of Schooling – 6. 19 The popularity of this means of controlling for differences in work experience is rooted largely in the lack of information on actual work experience in many data sources, including the Census and the Current Population Survey. Nonetheless, the issue is whether measures of potential work experience accurately represent the actual work experiences of various demographic groups, and whether the use of potential rather than actual work experience biases estimated earnings regressions.²⁰ The employment rates reported in Table 6-2 (and Appendix Table 6-3) indicate notable differences across racial and ethnic groups and especially by gender. Moreover, the extent to which work experience is systematically related to years of schooling can generate bias in estimated returns to education.²¹ In the next section, we explore these issues by investigating how Hispanic men and women differ relative to whites and blacks using longitudinal data for a set of birth cohorts who began their transition from school to work during the 1980s. We also discuss findings on whether the returns to schooling and work experience for Hispanics differ from those of whites or blacks.

¹⁹ Following the influential work of Mincer (1974), potential work experience is often entered as a quadratic function in logarithmic earnings regressions. Murphy and Welch (1990) and Heckman, Lochner, and Todd (2003) provide critical assessments of Mincer's specification of the earnings function.

²⁰ See Antecol and Bedard (2002, 2004) for recent treatments of this issue.

²¹ See Heckman, Lochner, and Todd (2003) for evidence that the shape, as well as level, of age-earnings profiles do differ by years of schooling over the latter part of the 20th century.

III. Life Cycle Patterns in Labor Market Experiences and their Consequences for Life Cycle Wage Growth²²

We now turn to a more detailed assessment of the life cycle patterns of educational and labor market experiences of young Hispanic men and women and examine how these experiences affected their earnings attainment. These estimates are derived for a nationally-representative sample of young men and women between the ages of 13 to 16 in 1978 drawn from the National Longitudinal Survey of Youth 1979 (NLSY79).²³ We note that all of the young adults enrolled in this sample resided in the U.S. in 1978. As a result, the sample members, including this Hispanics, had access to U.S. schools for much, if not all, of their adolescent years. As a result, we should expect to find differences in educational attainment by nativity for Hispanics between these data and those from the 2000 U.S. Census presented above. Below, we present estimates for Hispanics, both U.S.-born and foreign-born, as well as blacks and whites. The information available in the NLSY79 does not permit identification of the Hispanic subgroups considered in the rest of this chapter.

A. Accumulated Labor Market Related Experiences over Early Adulthood Life Cycle

Table 5 tabulates the high grades completed, high school and college graduation rates, and years spent in various work and other activities between the ages of 13 and 27 by gender and ethnicity and race.²⁴ Consistent with our findings based on data from the 2000 U.S. Census of Population, Hispanics, both U.S.- and foreign-born, have lower levels of education than do their black and white counterparts. This is true, regardless of what measure of education (e.g.,

²² This section draws heavily on results from Hotz, Xu, Tienda and Ahituv (2002), Ahituv and Tienda (2004) and Bacolod and Hotz (2004).

²³ Details of this sample and its construction can be found in Bacolod and Hotz (2004). This sample closely parallels those used in Xu, Tienda and Ahituv (2002) and Ahituv and Tienda (2004).

²⁴ See Bacolod and Hotz (2004) for a description of how the year-by-year work, schooling and other activities used to construct these accumulated "Years Spent" measures.

graduate rates or highest grades completed) is used. We note that the deficits in highest grades completed for U.S.-born Hispanics are almost identical to those presented in Table 1 using Census data. The high grade completed for foreign-born Hispanics in Table 5 are almost two grades higher, for both men and women, than the estimates presented in Table 1. This difference is consistent with the fact that the sample members in the NLSY79 had already entered the U.S. by the time they were adolescents, whereas no such restriction holds for the respondents in the 2000 Census. With respect to rates of graduation from high school, the rates for Hispanic men were 15 percentage points lower than white men, with deficits of 17 percentages points for foreign-born Hispanic males. While the high school graduation rate deficits for all Hispanic women relative to white women were slightly lower than for those for men (12 percentages points), foreign-born Hispanic women had graduation rates that were even larger than those of men (26 percentage points). The fact that we have sizeable deficits in graduation rates for foreign-born Hispanics relative to their white counterparts is all the more notable, given that the NLSY79 respondents resided in the U.S. during their adolescent years.

With respect to accumulated work experience, Hispanic men accumulated one-half a year less in the number of years of they engaged in some work for pay between the ages of 13 and 27 as do their white counterparts (9.98 years versus 10.48 for white men) and almost a year more than black men (9.09 years). Furthermore, we find no difference in accumulated years of work over this age range between foreign-born Hispanic men and whites. Among women, Hispanics accumulated a little more than a year less work experience than whites (9.09 years versus 10.30 years for white women) and three quarters of a year more than blacks. Contrary to the findings for men, foreign-born Hispanic women worked 1.68 years less than white women over this age range.

Table 5 also records years of accumulated years working part-time, both while in and out of school, and working full time during a given year. With respect to full-time work, Hispanic men work 0.42 fewer years or 10 percent less than do white men and Hispanic women work 0.47 years or 14.5 percent less than their white counterparts. As with overall work experience, foreign-born Hispanic men worked almost as many years between the ages of 13 and 27 as did native-born white men but while foreign-born Hispanic women were less likely to acquire fulltime work experience than either U.S.-born Hispanic or white women. With respect to working part-time in years that they were not in school, Hispanics, especially men, actually accumulated more of this type of work experience than did whites, with Hispanic men working 0.82 (or 32 percent) more years of non-school related, part-time and virtually no differences between Hispanic women and their white counterparts. Finally, we also find that both Hispanic men and women, regardless of their nativity status, spent less time working while in school than did whites, although both accumulated more years of working while in school than did their black counterparts. This deficit in working-while-in-school for Hispanics relative to whites is largely due to the fact that Hispanics spent less time in school (and, thus, accumulated less education) than did whites. In sum, Hispanics, gained less work experience in their transition from school to the world of work and their work experience tended to be part-time rather than full-time work experience. To the extent that full-time work experience reflects greater attachment to the labor force and is more likely to enhance one's human capital relative to part-time experience, these differences may play an important role in the subsequent success Hispanics had in earnings and growth of earnings over their life cycle.

We also present in Table 5 estimates of the years Hispanics spent in military service and compare them to whites and blacks. With respect to military experience, we note that since the

Vietnam war, the U.S. military has been staffed by an all-volunteer force and studies have shown that military service provides an important employment and skill-enhancing opportunity for less educated young adults, especially minority men (Kilburn, 1993). Partially consistent with the latter view, we do find that black men and women do spent more years in the military than do their white counterparts, although relatively few young adults spent any time in the military regardless of their race or ethnicity. However, both Hispanic men and women spent less time in the military than do blacks or whites. While this trend may have changed for more recent cohorts of young men, these statistics suggest that Hispanics did not make use of this alternative route into the U.S. labor force that was used by less educated blacks.

Finally, we examine the time that Hispanics and their black and white counterparts spent in an omnibus category of other non-work, non-school activities during their adolescent and early adult years. For women, some of this time reflects time spent bearing and rearing children. For the young men in this category, it is less clear what activities they were engaged in, although one might presume that spending large amounts of one's early adulthood in activities other than school, work or the military did not enhance their success in the labor market. As recorded in Table 5, we do find that women spent more time in this activity category than did men and Hispanic and black women spent more of their years than did white women, both consistent with the greater time-commitment of women relative to men to child rearing and the higher fertility rates of minority women relative to white women. Among men, we also find that Hispanics spent more time not working, going to school or serving in the military than did whites but spent less of their adolescent and early adult years in this pursuit than did black men.

B. Wages Early Adulthood Life Cycle

An important indicator of an individual's labor market success, in addition to

employment, is the wages they can command in the market place. Standard models of human capital accumulation (Mincer, 1974) argue that individuals acquire human capital through schooling and from the on-the-job training and experiences that are a by-product of early work experiences. Furthermore, these theories suggest that market wages received by individuals reflect the market rewards, or "returns," to the amount of human capital one acquires over the life cycle. In this section, we examine the life cycle patterns in market wage rates received by Hispanic young men, as well as their black and white counterparts. We examine the wages and wage growth of Hispanics relative to whites an blacks during their early adulthood, focusing on ages 16 through 27. Note that these estimates are calculated using data for individuals that were employed during at a particular age. (More on the potential selectivity of these subsamples and their implications for estimating wages below.)

Focusing on average hourly wage rates for ages 23-27, we find that Hispanic men and women earned \$1.46 (16 percent) and \$1.09 (14 percent) lower hourly wage rates, respectively, than did their white counterparts. For the same ages, Hispanic men had slightly higher wages than blacks, while Hispanic women had wage rates over a dollar lower than black women. U.S.-born Hispanics had slightly lower wages over these ages than did their foreign-born counterparts. Overall, these wage rate differentials between Hispanics and whites and blacks are consistent with those found for broader age ranges using 2000 Census data.

Hispanics also experienced lower rates of growth in wages relative to whites and blacks during early adulthood. Wages over the ages 16-27 grew at an annual rate of 7.9 percent for Hispanic men, while the corresponding rates for white and black men were 9.2 and 8.2 percent, respectively. Among Hispanic women, wages over this same age range grew at an annual rate of 7.7 percent, while they grew 8.5 and 6.9 percent per year for white and black women,

respectively.²⁵

C. Evidence on Differences in Returns to Schooling and Work Experience for Earnings

The evidence on wage levels and growth in Table 6, along with that on annual earnings presented in Section II, indicates that over the life cycle almost all Hispanics experienced a growing differential in wage rates between themselves and whites. As noted at the end of Section II, differences in wages between Hispanics and whites (or between blacks for that matter) can result from two factors: differences in the *amounts* of human capital—e.g., schooling, English language proficiency and the amount and types of accumulated work experience—and differences in the *returns* to human capital across groups. We have already seen that a key difference between Hispanic young men and their black and white counterparts is the markedly lower levels of educational attainment for the former group. These findings are consistent with those in a large number of other studies of differences in labor market earnings by race and ethnicity.

However, a central issue in the literatures on labor market discrimination and educational quality has been the extent to which differences in labor market earnings are driven by differences across groups in the returns to skills, i.e., differences by race and ethnicity in the way that labor markets rewards skills. ²⁶ Several studies that have examined this issue (Smith 1991; Trejo 1997; Grogger and Trejo 2002) have found that estimates of returns to additional years of schooling in terms of labor market earnings are similar for U.S.-born whites, blacks, and Hispanics. At the same time, estimated returns to years of schooling are typically much lower for immigrants. That the U.S. labor market pays less for years of schooling acquired outside of the

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²⁵ We note, however, that the wages of foreign-born Hispanic men had an annual rate of growth that was essentially the same as their white counterparts.

²⁶ See Altonji and Blank (1999) for a survey of this literature.

U.S. is a common finding that also applies to non-Hispanic groups, including whites (Borjas 1995; Schoeni 1997; Trejo 2003). This finding is usually interpreted as evidence that the schooling immigrants acquire in their home country transfers imperfectly to the U.S. labor market (Chiswick 1978).

In drawing conclusions about differences in the returns to acquired skills across racial and ethnic groups, it is important to take account of why individuals and groups differ in their accumulation of human capital (e.g., their acquisition of schooling and work experience) and how these processes relate to the generation of their labor market earnings. The central issue here is whether or not years of schooling and work experience used to measure an individual's accumulation of human capital are exogenous with respect to one's labor market earnings. Economic models of schooling acquisition (as well as the accumulation of work experience) assume that individuals (and families) choose these components of human capital so as to maximize, in part, their subsequent earnings (Mincer 1958, 1974; Becker 1964, 1975; Rosen 1977; Willis 1986; Card 2001; Heckman, Lochner and Todd 2003). In such models, for example, the amount of schooling an individual acquires will depend upon two sets of factors: (a) individual "ability", i.e., one's capacity to generate labor market earnings in the absence of any further skill acquisition and/or their productivity in converting schooling and work experience into market earnings and (b) "opportunities," i.e., the non-time costs of acquiring human capital and/or their ability to finance these costs. To the extent that there are differences in ability and/or opportunities across individuals, both within and across ethnic and racial groups, and that these differences are unobserved, simple (ordinary least squares) regression methods for estimating the "average" returns to schooling and work experience—such as used to produce the adjusted earnings in Figure 4 and 5 and as used in most simple analyses of racial, gender and ethnic

differences in earnings—are likely to be biased.²⁷ More generally, this potential for *endogeneity* or *self-selection* bias can compromise the conclusions about ethnic and racial differences in the returns to schooling and work experience in previous empirical investigations.

In a recent paper, Hotz, Xu, Tienda, and Ahituv (2002) exploit the richness of the longitudinal data in the NLSY79 to estimate the returns to educational attainment and a detailed set of accumulated work experiences such as those presented in Table 5 for Hispanic, black and white young men. Therein, the authors use a factor-analytic, dynamic selection model developed by Cameron and Heckman (1998, 1999) to account for the endogenous acquisition of schooling and work experience of young white, black and Hispanic men when estimating their returns in wages over their early careers. There are two notable findings in Hotz, Xu, Tienda, and Ahituv (2002) with respect the rates of return to different forms of work and schooling experiences. First, once one controls for various forms of self-selection in the accumulation of years of schooling and work experience, one finds that spending an extra year in school (and completing an additional grade) has a higher rate of return than spending that year in full-time or part-time work or in the military. Second, there is no evidence that the returns for wages to various forms of human capital are systematically different across Hispanic and white young men once one controls for self-selection.²⁸ These findings add further credence to the conclusion drawn in Section II—and that drawn by a number of other previous studies—that the fact that Hispanics have lower labor market outcomes than whites is the results of having acquired less human capital is their lower levels of skill and not that comparably-skilled Hispanics are treated

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²⁷ See Griliches (1977) for a discussion of the problem of "ability" bias in estimating the returns to schooling and Willis (1986), Card (1995) and Heckman and Vytlacil (1998) for discussions of the more general nature of the biases in estimating returns to acquired human capital in earnings equations.

²⁸ Differences in the returns to schooling and work for blacks relative to the other two groups persist, although the selection-correction methods reduce these differences compared to standard ordinary least squares estimates.

differently than whites in the U.S. labor market.

IV. Temporal and Generational Changes in the Labor Market Attainment of Hispanics

Our discussion of the labor market attainment of Hispanics in the U.S. to this point has focused either on the recent experiences (as of 2000) of Hispanics or on those for a recent cohort. But, have the attainment of Hispanics in the U.S. improved or deteriorated over time? Have they improved across generations? In the following two sections, we address each of these questions in turn, examining whether Hispanics made progress in terms of educational attainment, employment and earnings over the latter part of the twentieth century and whether later of Hispanics show improvement relative to earlier generations. Examining the secular and generational changes in Hispanic labor market attainment is important for at least two reasons. First, an essential part of the story of Hispanics in the U.S. is immigration. As has been noted in Chapter ?X?, the U.S. has undergone a wave of immigration over the last 25 years which has increased both the size of the Hispanic population in the U.S. as well as its composition. Both have potentially important impacts on the secular and generational trends in Hispanic attainment and on the ways they are likely to change in the future.

Second, the U.S. labor market and economy have undergone several important secular changes that have had important and differential consequences for different skill groups within the U.S. workforce, including Hispanics. The last 30 years have witnessed a large rise in overall wage inequality among American workers that resulted from substantial increases in the returns to skills.²⁹ For example, from 1979-1988 the average wage rate of college graduates increased relative to that for high school graduates by 15 percentage points.³⁰ In addition, since 1975, the

²⁹ See Katz and Murphy (1992).

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³⁰ Bound and Johnson (1992:371).

U.S. has also experienced a significant decline in the share of employment in the manufacturing sector and a noticeable increase in the share of U.S. employment in service sector jobs.³¹ Jobs in the manufacturing sector in the U.S. traditionally paid relatively high wages to lower-skilled workers; service sector jobs, especially for less-skilled workers, have tended to pay lower wages and exhibit lower rates of improvement with experience and seniority. Given the lower levels of educational attainment of Hispanics, relative to their white and black counterparts, these changes in the structure of the U.S. labor market over the last 30 years had a substantial impact on the likelihood of secular improvements for Hispanics over this period. Thus, a closer look at how Hispanics fared in the labor market over time and across generations is clearly in order.

A. Changes in Educational Attainment and Labor Market Earnings over Time

We begin by discussing what happened to the educational attainment of Hispanics over the latter part of the 20th century. Whenever analyzing intertemporal trends for U.S. Hispanics, it is imperative to recognize that immigration is a fundamental source of change for this population. High rates of immigration imply that change can occur rapidly, not only in terms of the size of this group, but also with respect to its composition. As we have shown, foreign-born and U.S.-born Hispanics differ dramatically in their labor market skills and outcomes, and therefore it is essential to disaggregate by nativity when analyzing Hispanics. Immigration-induced shifts in the composition of the Hispanic population make this point even more relevant when examining changes over time.

To illustrate this point, Figure 6-6 shows average years of schooling for Mexican and white men in the 1980, 1990, and 2000 Censuses. It we compare *all* Mexicans (i.e., foreign-born and U.S.-born combined) with U.S.-born whites, the story that emerges is one of educational

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³¹ See Table 7 in Levy and Murnane (1992).

stagnation. Between 1980 and 2000, average schooling rose by just 0.4 years for all Mexicans (from 9.4 to 9.8), which is only half of the 0.8 years increase enjoyed by whites (from 12.8 to 13.6), so the educational disadvantage of Mexicans appears to have widened. Looking at the trends by nativity, however, leads to exactly the opposite conclusion. Over these two decades, average schooling climbed by 1.2 years for foreign-born Mexicans (from 7.3 to 8.5) and by 1.5 years for U.S.-born Mexicans (from 10.6 to 12.1), so both groups actually made some progress in closing their educational gaps relative to whites.

Why is the overall trend for Mexicans much less favorable than the nativity-specific trends? Because immigrants, with their relatively low education levels, constitute an increasingly large share of U.S. Mexicans. In the samples of men ages 25 to 59 used in Figure 6-6, the percent foreign-born among Mexicans shot up from 37 percent in 1980 to 51 percent in 1990 and 63 percent in 2000. With the potential for profound compositional changes such as this, trends for Hispanic groups that do not distinguish by nativity are likely to provide a misleading portrait of what is really happening for these groups.

We next turn to what happened to labor market earnings for Hispanics relative to whites and blacks over the latter part of the 20th century. In Table 6-7, we present estimates of the annual earnings of Hispanic men and women, for all Hispanics and subgroups, as a percentage of the earnings of whites and blacks for 1980, 1990, and 2000. On average, the gap in earnings between Hispanic men and women relative to U.S.-born whites, grew from 1980 to 2000, with most of the change occurring between 1980 and 1990. In 1980, the earnings of Hispanic men were 58.5 percent of those for white men; by 2000, the earnings of Hispanic men had declined to 50.8 percent of white men. The declines in the earnings of Hispanic women relative to their white counterparts were even larger, declining by 18.5 percentage points from 1980 to 2000.

Notably, the earnings of Hispanic men and women also declined relative to U.S.-born blacks, with the declines being steeper for men relative to women. As shown in Table 6-7, there is some variation in this pattern when comparing Hispanic subgroups to whites and blacks. Mexicans show steeper declines in earnings, relative to whites and blacks for both men and women. In contrast, the earnings of Puerto Rican men actually improved relative to whites and blacks while the earnings of Puerto Rican women relative to the whites declined slight but remained largely unchanged relative to their black counterparts. The earnings of Cuban men remained largely unchanged relative to white men and improved relative to blacks, while Cuban women saw their earnings decline relative to white women and remain largely the same relative to black women.

The trends in the relative labor market earnings of Hispanics are markedly different for those who are foreign-born versus those born in the U.S. For Hispanics taken as a group and for all subgroups but Puerto Ricans, the earnings of foreign-born Hispanics either declined or remained unchanged relative to the earnings of whites and blacks. The relative declines in earnings for the foreign-born, were more pronounced among all groups of Hispanic women. In contrast, the earnings of Hispanics born in the U.S., either tended to either improve or remain the same, compared to those of whites and blacks over the past 30 years of the 20th century. Thus, consistent with the trends in years of schooling—and likely as a result of the changes in educational attainment—the story of what happened to Hispanics over the latter part of the 20th century with respect to their success in the labor market is largely driven by immigration and where these groups were educated, with the more recent waves of immigrants falling behind their white and black counterparts while those educated in the U.S. tending to hold their position, but not improve, relative to whites and blacks. In short, the educational deficits of Hispanics, primarily those of the foreign-born, appear to have been an increasing liability over time as the

U.S. labor market restructured and put a greater premium on work-related skills.

B. Intergenerational Changes in Attainment

As noted above, a distinguishing feature of U.S. Hispanics is the preponderance of those who are relatively new to this country. Because of the large volume of immigration from Spanish-speaking countries over the past several decades, most Hispanic workers in the United States come from families that have been in the country for no more than two generations. Previous waves of predominantly unskilled immigrants, such as the Italians and Irish, enjoyed substantial intergenerational progress that ultimately enabled their descendants to join the economic mainstream of American society, but this process took two or three generations to unfold (Chiswick, 1977; Neidert and Farley, 1985; Borjas, 1994; Perlmann and Waldinger, 1997). When analyzing labor market outcomes for U.S. Hispanics, it is therefore of interest to examine differences not just between the foreign-born and U.S.-born, but also, when possible, across generations of the U.S.-born. In this section, we explore what available data can tell us about such intergenerational patterns.

Beginning in 1980, the decennial U.S. Census stopped asking respondents where their parents were born. Starting in 1994, the Current Population Survey (CPS) began collecting this information on a regular basis from all respondents. As a result, the CPS is currently the best large-scale U.S. data set for investigating how Hispanic labor market outcomes vary by immigrant generation.

The CPS is a monthly survey of about 50,000 households that the U.S. government uses to estimate unemployment rates and other indicators of labor market activity. Every March, the CPS includes a set of additional questions, known as the "annual demographic supplement," that collects detailed information on respondents' labor supply and sources of income for the

preceding calendar year. We analyze microdata from these March CPS files for the years 1998-2002, and the earnings measures that we construct pertain to calendar years 1997-2001.³²

As before, we restrict our analysis to individuals in the age range of 25-59. Using the CPS information on the nativity of each individual and his parents, we define three broad categories of immigrant generation. The first generation consists of immigrants: foreign-born individuals whose parents were also born outside of the United States. The second generation includes U.S.-born individuals who have at least one foreign-born parent. The designation "third and higher generation" applies to U.S. natives whose parents are also natives. For ease of exposition, we will often refer to this last group as the "3rd+ generation" or simply the third generation. Compared to the Census data presented earlier, the main advantage of the CPS is this ability to distinguish between the second and 3rd+ generations of U.S.-born individuals. For our purposes, important drawbacks of the CPS data are the smaller sample sizes and the absence of information about English proficiency.

The standard method for identifying Hispanics in CPS data is to use respondents' self-reported information about their ethnicity. In response to a question about their "origin or descent," individuals can report themselves to be non-Hispanic, or they can choose to identify as a member of one of the following Hispanic groups: Mexican (including Mexican-American, Chicano, or Mexicano), Puerto Rican, Cuban, Central or South American, or the residual category of "other Spanish." We employ this standard method for identifying Hispanics. An alternative method is to assign Hispanic ethnicity based on the countries of birth of the respondent and his parents, but this method cannot identify Hispanics beyond the second generation. Moreover, for the analyses reported below, using the alternative method to identify

³² We thank Ruben Rumbaut and Charles Morgan for making available their extract of the March 1998-2002 CPS data.

first- and second-generation Hispanics produces results similar to those obtained from the standard method.

In addition to reporting results for all three generational categories of Hispanics, we also present analogous statistics for non-Hispanic whites and for non-Hispanic blacks. Here, the non-Hispanic samples include only individuals who are third and higher generation.

Figure 6-7 begins our intergenerational analysis of CPS data with a look at educational attainment.³³ We focus on differences between the second and third generations, because this is the information not available in the Census data already discussed. Strikingly, average education levels are essentially the same for second and later generations of Hispanics. This finding seems surprising in light of the large schooling gains that occur between the first and second generations, and the sizeable educational gap that remains between second-generation Hispanics and third-generation whites.

Mexicans and Puerto Ricans display the same general patterns as Hispanics overall, with substantial schooling growth between the first and second generations, little or no additional growth after the second generation, and a large educational deficit relative to whites that persists into at least the third generation. As before, Cubans stand out from the other groups with remarkably high levels of schooling. At over 14 years, the average education of second-generation Cubans is at least half a year above that of third-generation whites.

Figures 6-8 and 6-9 present a parallel analysis of annual earnings gaps. The graphs show the estimated percentage earnings deficits for each group relative to third-generation whites.³⁴

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³³ Because our CPS samples include very few Cubans who are third generation, only statistics for the first and second generations are shown for this national origin group. See Appendix Table 6-8 for the calculations underlying Figure 6-7, including standard errors and cell sample sizes. Appendix Table 6-8 also reports results for the two somewhat amorphous Hispanic subgroups identified by the CPS but not shown in Figure 6-1: Central/South Americans and "other Hispanics."

³⁴ See Appendix Table 6-9 for details of these estimates.

For Hispanic men (Figure 6-8), earnings gaps narrow across generations, with the biggest decline between the first and second generations, and a smaller decline after that. The earnings deficit for Mexican men, for example, falls from 67 percent for immigrants to 38 percent for the second generation to 31 percent for later generations. For Puerto Rican men, the analogous earnings deficits are 48 percent for the first generation, 31 percent for the second generation, and 16 percent for later generations. Remarkably, the 39 percent earnings deficit among Cuban immigrants disappears by the second generation. For comparison purposes, note that the earnings gap for third-generation black men is 41 percent.

The bottom panel of Figure 6-8 shows what happens to these earnings gaps when we condition on schooling.³⁵ As before, all of the earnings deficits for Hispanic men shrink substantially after controlling for education, whereas this same adjustment produces a less dramatic decline in the earnings deficit of African-American men.

Figure 6-9 tells a similar story for Hispanic women. For Hispanics as a whole, the earnings gap is huge for immigrants (51 percent) and much smaller for the second and third generations (9-15 percent). Controlling for education dramatically lowers this gap for immigrants (to 5 percent) and eliminates it altogether for U.S. natives. The pattern is the same for each of the Hispanic subgroups. In fact, after adjusting for educational differences, U.S.-born women from every Hispanic national origin group have average annual earnings as high as those of third-generation white women. As we saw earlier in the Census data, black women possess a small earnings disadvantage relative to white women that disappears once we control for schooling.

The education data in Figure 6-7 and the earnings data in Figures 6-8 and 6-9 reveal substantial gains for Hispanics between immigrants and the second generation. In contrast, the

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³⁵ Unlike the Census, the March CPS does not collect information on English proficiency, so we cannot also adjust for this factor.

same data show relatively minor differences between second-generation and later-generation Hispanics in terms of their labor market skills and success, despite the fact that in these dimensions U.S.-born Hispanics continue to trail whites by a considerable amount. Does this imply that intergenerational progress stalls for Hispanics after the second generation? Not necessarily. As noted by Borjas (1993) and Smith (2003), generational comparisons in a single cross-section of data do a poor job of matching immigrant parents and grandparents in the first generation with their actual descendants in later generations. Indeed, Smith (2003) finds evidence of more substantial gains between second- and third-generation Hispanics when he combines cross-sectional data sets from successive time periods in order to compare second-generation Hispanics in some initial period with their third-generation descendants 25 years later. Yet even Smith's analysis shows some signs of intergenerational stagnation for Hispanics. In his Table 4, for example, five of the six most recent cohorts of Mexicans experience no wage gains between the second and third generations. Moreover, all studies conclude that large education and earnings deficits remain for third- and higher-generation Mexican-Americans.³⁶

If we assume that schooling is complete by the age of 25 and does not change thereafter, we can use our CPS samples to conduct an analysis of intergenerational changes in Hispanic educational attainment similar in spirit to Smith (2003). Table 6-8 presents average schooling levels like to those displayed previously in Figure 6-7, except that now separate calculations have been done for two particular age groups: 25-34 and 50-59. By choosing age groups 25 years apart, we create a situation in which the older age group from a particular generation potentially represents the parental cohort for the younger age group in the next generation. For example, the cohort of immigrant men ages 50-59 is likely to include fathers of the second-generation cohort

³⁶ Borjas (1994) and Card, DiNardo, and Estes (2000) investigate patterns of intergenerational progress for many different national origin groups (most of which are non-Hispanic).

of sons ages 25-34. Following Smith (2003), we report calculations for Hispanics overall and also for Mexicans, the only Hispanic subgroup with adequate sample sizes for a separate analysis.

If we make comparisons within age groups by reading down the columns of Table 6-8, we tend to see the same story that emerged from Figure 6-7: huge educational improvement for Hispanics between the first and second generations but little progress after the second generation.³⁷ The story changes for the second and third generations, however, if we instead compare age/generation groups that could match parents with their children. Among Hispanic men, for example, average schooling rises from 12 years for the older second generation to 12.6 years for the younger third generation. The analogous educational expansion between the second and third generations is even larger for Mexican men, from 11.6 to 12.5 years. Note that calculating progress between the first and second generations in this same way produces huge gains even bigger than those we saw in Figure 6-7: 3.4 years for Hispanic men and 4.8 years for Mexican men. Patterns are similar for women, with the implied intergenerational gains somewhat larger than those for men. For Hispanics overall, comparing older and younger women across generations yields schooling growth of 3.7 years between the first and second generations and 1.2 years between the second and third generations. For Mexican women, the corresponding gains are 5.5 years between the first and second generations and 1.5 years between the second and third generations. Despite this apparent progress, we should point out that young thirdgeneration Hispanics still trail the average schooling of their white peers by a year or more.

Does this educational improvement between older second-generation Hispanics and younger third-generation Hispanics truly represent intergenerational progress, or could it be

³⁷ The older group of women is something of an exception, as they show schooling gains of about a half-year between the second and third generations.

something else? One possibility is that it reflects secular trends that have raised average schooling levels for all young people relative to their elders. The data in Table 6-8 for thirdgeneration whites suggest that this is not the case, however. For white men, the younger age group is not any more educated than the older age group. For white women, the younger age group has a schooling advantage of less than half a year, which accounts for at most a third of the estimated educational progress between the second and third generations of Hispanic women. Another possibility is that the civil rights movement and related factors opened up educational opportunities for younger members of minority groups that were not available for their parents. For men there is some evidence consistent with this hypothesis, in that for blacks the younger age group averages almost a half year more schooling than the older age group, whereas for whites the younger age group actually has slightly less education than the older age group. If we believe that young Hispanics experienced a similar educational gain arising from increased educational opportunities for minorities, this could account for most of the estimated intergenerational progress between second- and third-generation Hispanic men, and for about half of the corresponding intergenerational progress for Mexican men. Note, however, that for women the educational advantage of the younger age group relative to the older age group is the same for blacks and whites, so this argument cannot account for any of the estimated intergenerational progress for Hispanic or Mexican women.

A different issue concerning the measurement of intergenerational progress for Hispanics arises because ethnic identification is to some extent endogenous, especially among people at least one or two generations removed from immigration to the United States (Alba, 1990; Waters, 1990). Consequently, the descendants of Hispanic immigrants who continue to identify

themselves as Hispanic in the third and higher generations may be a select group. ³⁸ In particular, if the most successful Hispanics are more likely to intermarry or for other reasons cease to identify themselves or their children as Hispanic, then available data may understate human capital and earnings gains between the second and third generations. Duncan and Trejo (2004) have begun to investigate this issue with respect to Mexicans. Analyzing 1990 Census data, they find that U.S.-born Mexican-Americans who marry non-Mexicans are substantially more educated, on average, than are Mexican-Americans who marry coethnics (whether they be Mexican-Americans or Mexican immigrants). The educational selectivity of Mexican-American intermarriage generates corresponding differences in the employment and earnings of Mexican-Americans according to the ethnicity of their spouses. Moreover, the children of intermarried Mexican-Americans are much less likely to be identified as Mexican than are the children of endogamous Mexican marriages. These forces combine to produce strong negative correlations between the education, employment, and earnings of Mexican-American parents and the chances that their children retain a Mexican ethnicity. Several important steps remain to be done, however, before these correlations can be used to assess the magnitude of potential biases that might be obscuring the intergenerational progress of Mexican-Americans.

V. Conclusion

This chapter has analyzed both the absolute and relative success Hispanics have experienced in the U.S. labor market. There were several conclusions that emerge. First and foremost, the human capital disadvantages that characterize Hispanics as a group, especially those who are foreign-born, end up heavily shaping how Hispanics fare in the U.S. labor market. As we have documented above, Hispanics living in the U.S. today, especially Mexicans, have

.

³⁸ Bean, Swicegood, and Berg (2000) raise this possibility in their study of generational patterns of fertility for Mexican-origin women in the United States.

much lower levels of education than do whites or blacks. This schooling deficit among Hispanics is largely the result of an increasing share of Hispanics in the U.S. that were foreign-born and, in many cases, educated outside the U.S. Not surprisingly, we also found that Hispanics in the U.S. had lower levels of English proficiency than their white or black counterparts. It is well documented that these forms of human capital, especially educational attainment, are important for success in the U.S. labor market, given the restructuring of the U.S. economy that occurred over the last 25-30 years. As a result, we do find that Hispanics have tended to lag behind whites (although not blacks) in their rates of employment, presence in high-paying occupations, and overall levels of earnings.

A second major conclusion that emerges with respect to Hispanics concerns how their skills are valued, or rewarded, in the U.S. labor market. We consistently find that after adjusting for the levels of human capital (e.g., schooling and English language proficiency) Hispanics do almost as well as whites with respect to both employment and labor market earnings. This fact is all the more notable, given that such adjustments for differences in these observable measures of human capital do not end up accounting for much of the gaps in labor market outcomes between blacks and whites. Finally, as discussed in Section III, several more refined studies also indicate that there is difference in the "returns" in the earnings that Hispanics and whites receive to their schooling and accumulated work experiences. Taken together, this evidence clearly suggests that comparably skilled Hispanics are treated no differently than whites within the U.S. labor market.

The third and final issue concerns what one learns from generational and temporal changes with respect to what the future will bear for the success of Hispanics in the U.S. labor market. Here, our findings are a bit less conclusive. In particular, we have found that there is clear progress in educational attainment and earnings between 1st and 2nd generation Hispanics

in the U.S., both absolutely and relative to whites. With respect to progress between the 2nd and 3rd+ generations, the evidence is less clear. As noted by Smith (2003), one does find evidence of progress between the 2nd and 3rd+ generations in educational attainment once one appropriately aligns the data to reflect secular changes. At the same, the corresponding progress in earnings is less clear cut, especially among younger cohorts of Mexicans. Moreover, forecasting what will happen to Hispanics with respect to their labor market success in the future hinges heavily on the rates and nature of Hispanic immigration to the U.S. and on how technological and institutional changes alter the requirements for success in the U.S. labor market.

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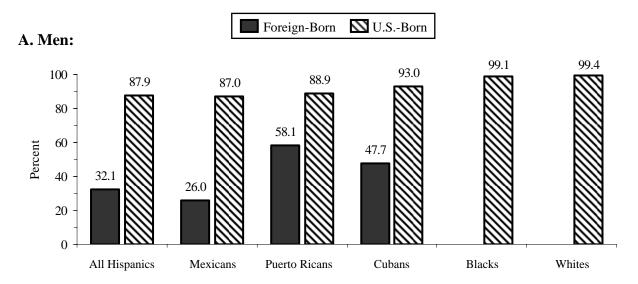
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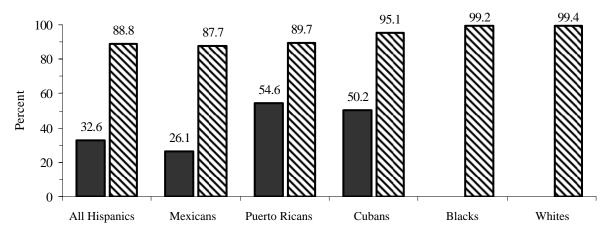
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Figure 1: Percent Speaking English Very Well, by Gender, Ethnicity, and Nativity



B. Women:



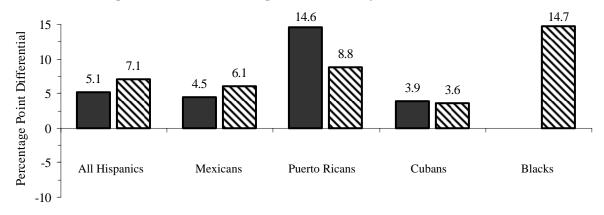
Source: 2000 Census 5% PUMS.

Note: The samples include individuals aged 25-59. In these tabulations, those who speak only English are presumed to speak English "very well". See Appendix A2 for further details.

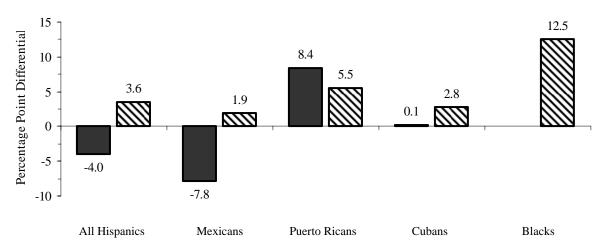
Figure 2: Male Employment Deficits Relative to U.S.-Born Whites, by Ethnicity and Nativity

Foreign-Born W U.S.-Born

A. Not Controlling for Education or English Proficiency:



B. Controlling for Education and English Proficiency:



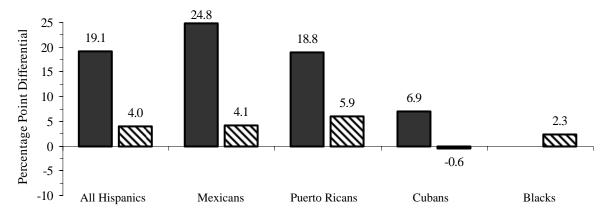
Source: 2000 Census 5% PUMS.

Note: The samples include individuals aged 25-59. All of the reported differentials control for geographic location and age. See Appendix Table A4 for further details.

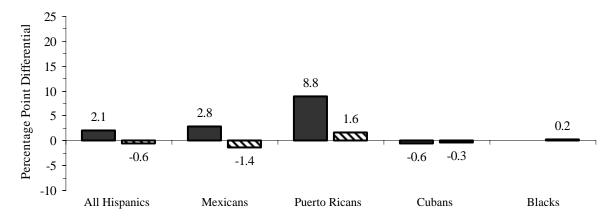
Figure 3: Female Employment Deficits Relative to U.S.-Born Whites, by Ethnicity and Nativity

Foreign-Born U.S.-Born

A. Not Controlling for Education or English Proficiency:



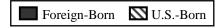
B. Controlling for Education and English Proficiency:



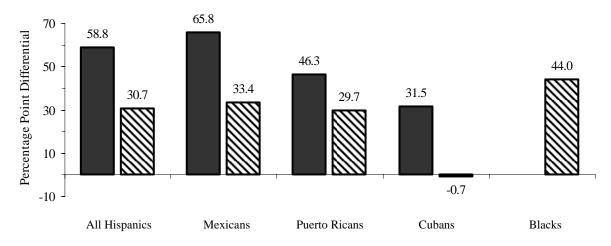
Source: 2000 Census 5% PUMS.

Note: The samples include individuals aged 25-59. All of the reported differentials control for geographic location and age. See Appendix A4 for further details.

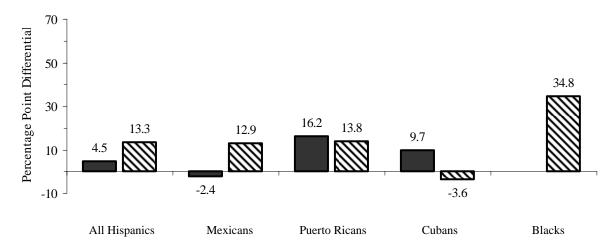
Figure 4: Male Annual Earnings Deficits Relative to U.S.-Born Whites, by Ethnicity and Nativity



A. Not Controlling for Education or English Proficiency:



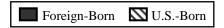
B. Controlling for Education and English Proficiency:



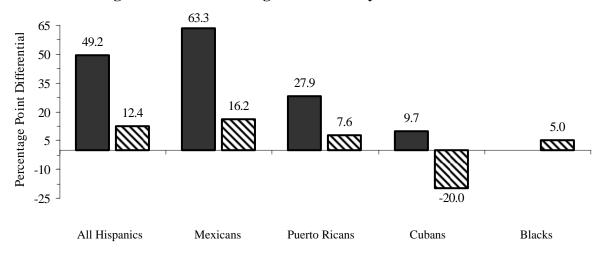
Source: 2000 Census 5% PUMS.

Note: The samples include individuals aged 25-59 who worked during the calendar year preceding the survey. All of the reported differentials control for geographic location and age. See Appendix A7 for further details.

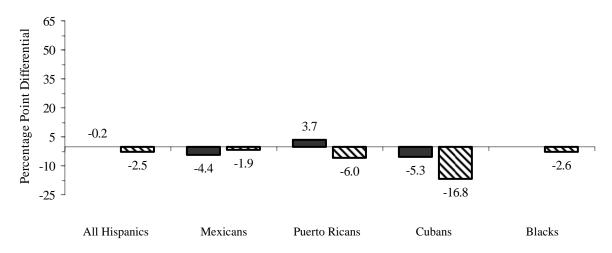
Figure 5: Female Annual Earnings Deficits Relative to U.S.-Born Whites, by Ethnicity and Nativity



A. Not Controlling for Education or English Proficiency:



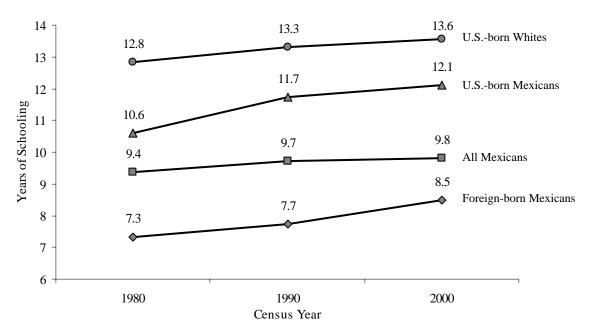
B. Controlling for Education and English Proficiency:



Source: 2000 Census 5% PUMS.

Note: The samples include individuals aged 25-59 who worked during the calendar year preceding the survey. All of the reported differentials control for geographic location and age. See Appendix A7 for further details.

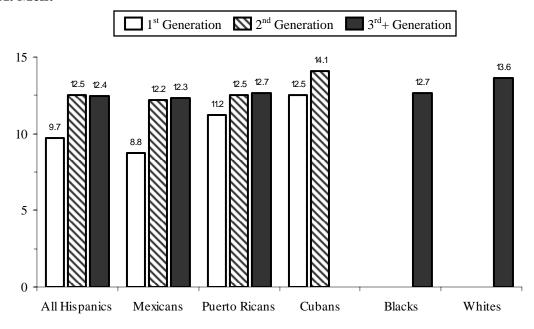
Figure 6: Average Years of Schooling for Men, 1980-2000, by Ethnicity and Nativity



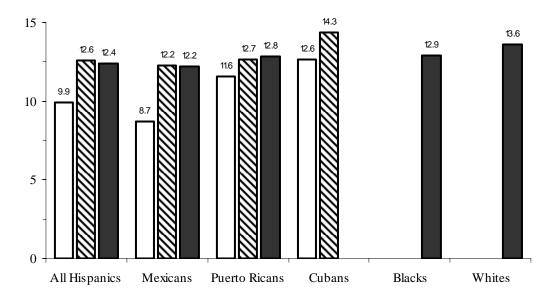
Source: 1980, 1990, and 2000 Census 5% PUMS. Note: The samples include men aged 25-59.

Figure 7: Average Years of Schooling, by Gender, Ethnicity, and Generation

A. Men:



B. Women:

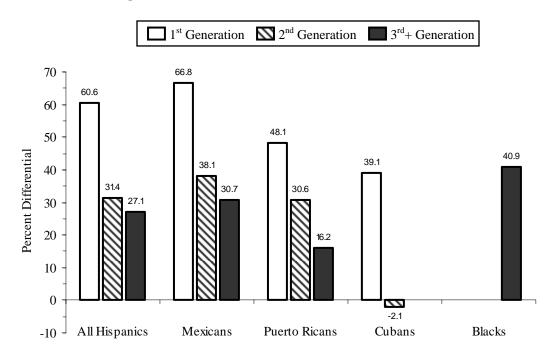


Source: March 1998-2002 CPS data.

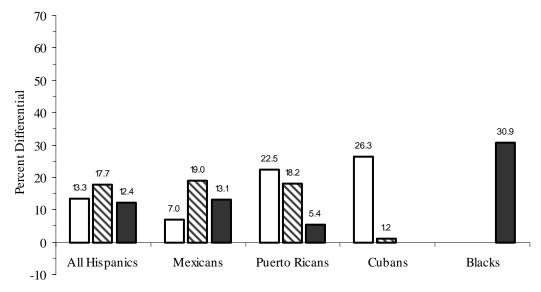
Note: The samples include individuals aged 25-59. See Appendix Table A8 for further details.

Figure 8: Male Annual Earnings Deficits Relative to 3rd+ Generation Whites, by Ethnicity and Generation

A. Not Controlling for Education:



B. Controlling for Education:

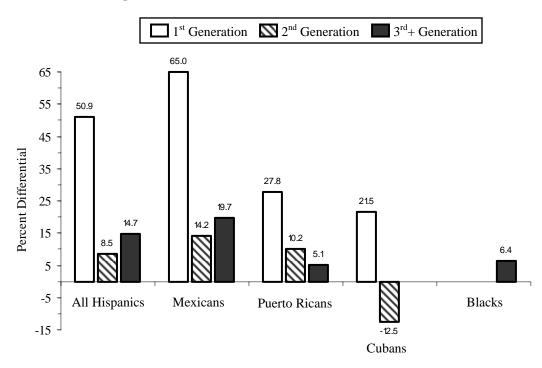


Source: March 1998-2002 CPS data.

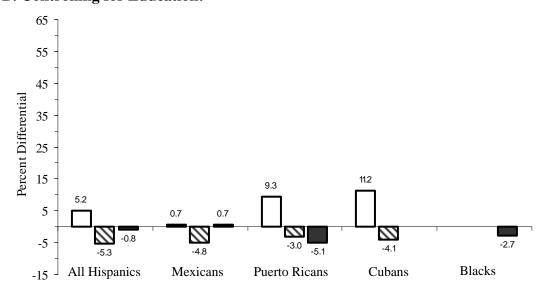
Note: The samples include men aged 25-59 who worked during the calendar year preceding the survey. All of the reported differentials control for survey year, geographic location, and age. See Appendix Table A9 for further details.

Figure 9: Female Annual Earnings Deficits Relative to 3rd+ Generation Whites, by Ethnicity and Generation

A. Not Controlling for Education:



B. Controlling for Education:



Source: March 1998-2002 CPS data.

Note: The samples include women aged 25-59 who worked during the calendar year preceding the survey. All of the reported differentials control for survey year, geographic location, and age. See Appendix Table A9 for further details.

Table 1: Average Years of Schooling, by Gender, Ethnicity, and Nativity

	N	1en, by Nativi	ty	Wo	men, by Nati	vity
Ethnicity	All	Foreign- Born	U.S Born	All	Foreign- Born	U.S Born
Whites			13.6			13.6
Blacks			12.4			12.8
All Hispanics	10.5	9.5	12.2	10.8	9.8	12.4
Mexicans	9.8	8.5	12.1	10.1	8.6	12.2
Puerto Ricans	11.7	11.2	12.4	12.0	11.4	12.7
Cubans	12.7	12.4	13.6	12.9	12.5	14.2

Note: The samples include individuals aged 25-59. See Appendix Table A1 for standard errors and sample sizes, as well as for analogous calculations for other Hispanic subgroups.

Table 2: Annual Employment Rates (Percentages), by Gender, Ethnicity, and Nativity

	N	Ien, by Nativi	ty	Wo	men, by Nati	vity
Ethnicity	All	Foreign- Born	U.S Born	All	Foreign- Born	U.S Born
Whites			91.8			80.2
Blacks			77.4			77.7
All Hispanics	86.8	87.5	85.6	67.0	61.2	76.3
Mexicans	87.8	88.5	86.5	64.7	56.1	76.4
Puerto Ricans	80.0	76.6	83.8	67.7	60.8	75.5
Cubans	87.3	86.8	89.1	74.7	72.5	82.5

Note: The samples include individuals aged 25-59. See Appendix Table A3 for standard errors, as well as for analogous calculations for other Hispanic subgroups.

Table 3: Self-Employment Rates (Percentages), by Gender, Ethnicity, and Nativity

	N	Ien, by Nativi	ty	Wo	men, by Nati	vity
Ethnicity	All	Foreign- Born	U.S Born	All	Foreign- Born	U.S Born
Whites			13.9			8.1
Blacks			5.8			3.4
All Hispanics	8.2	8.4	7.9	6.6	8.0	5.0
Mexicans	7.5	7.4	7.7	6.1	7.6	4.8
Puerto Ricans	5.6	5.7	5.5	4.0	4.2	3.8
Cubans	15.9	16.9	12.7	7.4	7.6	7.1

Note: The samples include individuals aged 25-59 who were employed during the Census reference week. See Appendix Table A5 for standard errors, as well as for analogous calculations for other Hispanic subgroups.

Table 4: Industry and Occupation Distributions (Percentages), by Gender, Ethnicity, and Nativity

	Men, b	y Ethnicity a	nd Nativity	y	Women,	Women, by Ethnicity and Nativity			
	Foreign-Born	1	U .SBorn		Foreign-Born	1	U.SBorn		
	Hispanics	Hispanics	Blacks	Whites	Hispanics	Hispanics	Blacks	Whites	
<u>Industry</u> :									
Agriculture & Forestry	10.9	4.4	2.2	4.3	2.7	0.9	0.3	1.4	
Construction	18.0	12.9	8.4	12.6	1.1	1.4	0.7	1.8	
Manufacturing	20.6	16.4	21.2	21.3	18.9	9.4	12.1	11.0	
Transportation & Communications	5.4	8.5	10.6	7.9	2.5	3.7	4.7	3.1	
Trade	20.4	18.4	15.4	16.3	20.6	17.5	12.6	17.2	
Finance, Insur., & Real Estate	2.7	4.3	4.0	5.1	5.0	8.6	7.6	8.6	
Services	20.0	26.5	28.8	26.0	46.4	50.8	51.7	51.3	
Public Admin.	2.0	8.5	9.5	6.6	2.8	7.7	10.4	5.5	
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Occupation: Managerial & Professional	12.2	24.3	21.4	35.8	22.7	37.7	38.8	44.9	
Technical & Sales	10.3	17.3	15.9	16.2	23.6	39.2	32.0	35.6	
Service	18.5	13.4	16.3	7.9	27.7	14.0	15.6	11.0	
Farming & Forestry	5.8	1.4	0.9	0.9	2.9	0.4	0.2	0.3	
Precision, Craft, & Repair	24.0	20.4	14.8	18.9	1.1	0.8	0.9	0.8	
Operators &	29.3	23.2	30.8	20.3	22.1	7.8	12.5	7.5	
Laborers	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

Note: The samples include individuals aged 25-59 who were employed during the Census reference week.

Table 5: Graduation Rates and Years Spent in Various School, Work and Other Activities, Ages 13-27

	Y	oung Mer	<u> </u>			Yo	ung Wom	ien	
	Hispanics					Hispanics	<u></u>		
	Foreign-	U.S				Foreign-	U.S		
All	Born	Born	Blacks	Whites	All	Born	Born	Blacks	Whites
Highest G	rade Compl	eted							
12.15	11.88	12.22	12.50	13.32	12.39	11.81	12.54	12.86	13.36
1.17	1.44	1.10	0.82		0.97	1.55	0.82	0.50	
Proportion	n Graduated	l from Hig	gh School						
0.73	0.71	0.74	0.84	0.88	0.79	0.65	0.83	0.87	0.91
0.15	0.17	0.14	0.04		0.12	0.26	0.08	0.04	
Proportion	n Graduated	l from Col	llege						
0.11	0.08	0.12	0.11	0.26	0.11	0.12	0.11	0.13	0.27
0.15	0.18	0.14	0.15		0.16	0.15	0.16	0.14	
Years Spei	nt Working	since Age	13, All Typ	es					
9.98	10.41	9.85	9.09	10.48	9.09	8.62	9.21	8.35	10.30
0.50	0.06	0.63	1.39		1.21	1.68	1.09	1.95	
Years Spei	nt Working	while in S	chool since	Age 13					
2.75	2.91	2.71	2.50	3.65	2.71	2.44	2.78	2.65	3.56
0.90	0.75	0.95	1.15		0.84	1.11	0.78	0.90	
Years Spen	nt Working	Part-Time	e (& Not in	School) sine	ce Age 13				
3.39	3.27	3.43	3.29	2.57	3.60	3.50	3.63	3.44	3.50
-0.82	-0.70	-0.86	-0.72		-0.11	0.00	-0.13	0.06	
Years Spei	nt Working	Full Time	:						
3.83	4.24	3.72	3.30	4.26	2.77	2.68	2.80	2.26	3.24
0.42	0.01	0.54	0.96		0.47	0.56	0.45	0.99	
Years of M	Iilitary Serv	rice							
0.57	0.28	0.65	0.91	0.71	0.04	0.09	0.03	0.13	0.08
0.14	0.43	0.06	-0.21		0.04	-0.01	0.05	-0.05	
Years Spei	nt in Other 1	Non-Scho	ol, Non-Wo	rk Activitie	s since Ag	e 13			
0.67	0.41	0.74	0.96	0.31	1.87	2.16	1.80	2.24	1.12
-0.36	-0.10	-0.43	-0.65		-0.75	-1.04	-0.68	-1.12	
Number of	f Observatio	ons (Perso	ns)						
488	111	377	769	1,588	493	103	390	720	1,523

Source: NLSY79

Note: Italicized values below average accumulated years and proportions are deficits relative to whites.

Table 6: Average Hourly Wage Rates by Age, Ages 13-27

		Youn	g Men				Yo	oung Wom	en	
		Hispanics					Hispanics			
		Foreign-	U.S				Foreign-	U.S		
Age	All	Born	Born	Blacks	Whites	All	Born	Born	Blacks	Whites
16	4.39	1.65	4.81	3.53	3.79	7.11	4.94	7.60	12.20	3.56
17	4.08	3.26	4.34	3.98	3.91	3.39	3.25	3.42	4.50	3.65
18	4.24	4.50	4.17	3.76	4.42	3.69	3.90	3.64	3.33	3.95
19	5.05	5.26	4.98	4.14	5.22	4.05	4.11	4.03	4.06	4.19
20	5.58	6.56	5.28	4.55	5.46	4.28	4.02	4.34	4.17	4.80
21	5.57	5.50	5.59	5.07	5.69	5.39	4.99	5.48	4.55	5.10
22	6.22	6.60	6.10	5.77	6.73	5.91	6.42	5.79	4.97	9.62
23	6.71	6.71	6.71	6.33	8.09	5.90	5.10	6.09	4.81	6.42
24	7.17	7.00	7.23	6.64	7.98	6.34	7.41	6.11	5.88	7.06
25	7.62	7.49	7.67	7.50	8.57	6.43	6.52	6.41	6.17	7.14
26	8.19	7.84	8.29	7.13	10.65	6.88	6.95	6.87	8.75	7.34
27	8.44	9.80	8.02	9.21	10.04	7.09	6.45	7.23	10.14	9.56
Ave., Ages 24-27	7.86	8.03	7.80	7.62	9.31	6.69	6.83	6.66	7.74	7.78
Diff. from Whites, Ages 24-27	1.46	1.28	1.51	1.69		1.09	0.94	1.12	0.04	
Ann. Growth Rate	0.079	0.095	0.074	0.082	0.092	0.077	0.062	0.081	0.069	0.085

Source: NLSY79

Notes: All wages are deflated to be in 1982-84 dollars. Averages were taken over respondents who reported working at a particular age.

Table 7: Annual Earnings of Hispanics Relative to Black and Whites, 1980-2000

			M	[en			Women					
	1980	1990	2000	1980	1990	2000	1980	1990	2000	1980	1990	2000
Ethnicity/Nativity	Annual Earnings as Percentage of U.SBorn Whites		Annual Earnings as Percentage of U.SBorn Blacks			Annual Earnings as Percentage of U.SBorn Whites		Annual Earnings as Percentage of U.SBorn Blacks				
U.SBorn Blacks	54.8	49.5	56.0				105.3	99.6	95.0			
All Hispanics:												
All	58.5	49.8	50.8	106.8	100.6	90.7	85.2	73.0	66.7	80.9	73.3	70.2
Foreign-Born	48.4	37.5	41.2	88.3	75.8	73.6	82.1	59.0	50.8	78.0	59.2	53.5
U.SBorn	68.9	67.9	69.3	125.7	137.2	123.8	88.0	88.9	87.6	83.6	89.3	92.2
Mexicans:												
All	55.8	45.4	45.8	101.8	91.7	81.8	77.8	65.9	60.3	73.9	66.2	63.5
Foreign-Born	38.1	26.3	34.2	69.5	53.1	61.1	63.8	37.8	36.7	60.6	38.0	38.6
U.SBorn	66.3	65.1	66.6	121.0	131.5	118.9	83.7	83.8	83.8	79.5	84.1	88.2
Puerto Ricans:												
All	50.1	53.5	62.0	91.4	108.1	110.7	89.7	85.3	82.8	85.2	85.6	87.2
Foreign-Born	44.8	45.8	53.7	81.8	92.5	95.9	85.6	75.8	72.1	81.3	76.1	75.9
U.SBorn	69.5	66.0	70.3	126.8	133.3	125.5	101.7	98.6	92.4	96.6	99.0	97.3
Cubans:												
All	77.4	76.7	75.8	141.2	154.9	135.4	110.3	104.8	97.9	104.7	105.2	103.1
Foreign-Born	76.9	73.7	68.5	140.3	148.9	122.3	109.5	102.5	90.3	104.0	102.9	95.1
U.SBorn	83.1	95.7	100.7	151.6	193.3	179.8	122.3	118.5	120.0	116.1	119.0	126.3

Source: 1980, 1990, 2000 Censuses 5% PUMS.

Note: The estimates for 2000 are taken from Table A7, Columns (1) for Men and Women. The estimates for 1980 and 1990 are constructed in an analogous way, using data from the 1980 and 1990 5% PUMS Census files.

Table 8: Average Years of Schooling, by Gender, Ethnicity, Generation, and Age

	M	en	Woi	men
Ethnicity/Generation	Age 25-34	Age 50-59	Age 25-34	Age 50-59
3rd+ Generation Whites	13.6 (0.01)	13.7 (0.02)	13.8 (0.01)	13.4 (0.01)
3rd+ Generation Blacks	12.8 (0.03)	12.4 (0.05)	13.0 (0.03)	12.6 (0.04)
All Hispanics: 1st Generation	9.8 (0.05)	9.4 (0.10)	10.3 (0.05)	9.2 (0.09)
2nd Generation	12.8 (0.05)	12.0 (0.16)	12.9 (0.05)	11.4 (0.16)
3rd+ Generation	12.6 (0.04)	12.0 (0.10)	12.6 (0.05)	11.8 (0.09)
Mexicans: 1st Generation	9.3 (0.05)	7.7 (0.14)	9.6 (0.06)	7.1 (0.13)
2nd Generation	12.5 (0.07)	11.6 (0.19)	12.6 (0.06)	11.0 (0.18)
3rd+ Generation	12.5 (0.05)	11.7 (0.12)	12.5 (0.05)	11.5 (0.11)

Source: March 1998-2002 CPS data.

Note: Standard errors are shown in parentheses.

Table A1: Average Years of Schooling, by Gender, Detailed Ethnicity, and Nativity

		Men, by Nativi	ty	W	omen, by Nativ	vity
		Foreign-	_		Foreign-	
Ethnicity	All	Born	U.SBorn	All	Born	U.SBorn
Whites			13.6			13.6
			(0.005)			(0.005)
			[229,933]			[234,958]
Blacks			12.4			12.8
			(0.005)			(0.004)
			[301,402]			[358,222]
All Hispanics	10.5	9.5	12.2	10.8	9.8	12.4
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
	[380,385]	[247,079]	[133,306]	[362,044]	[220,970]	[141,074]
Mexicans	9.8	8.5	12.1	10.1	8.6	12.2
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
	[243,573]	[154,878]	[88,695]	[216,338]	[124,177]	[92,161]
Puerto Ricans	11.7	11.2	12.4	12.0	11.4	12.7
	(0.02)	(0.03)	(0.02)	(0.02)	(0.03)	(0.02)
	[33,927]	[18,106]	[15,821]	[37,233]	[19,847]	[17,386]
Cubans	12.7	12.4	13.6	12.9	12.5	14.2
	(0.03)	(0.03)	(0.05)	(0.03)	(0.03)	(0.05)
	[15,263]	[12,104]	[3,159]	[14,328]	[11,189]	[3,139]
Dominicans	10.8	10.7	12.5	11.0	10.8	13.2
	(0.04)	(0.04)	(0.11)	(0.04)	(0.04)	(0.10)
	[9,754]	[8,932]	[822]	[12,008]	[11,038]	[970]
Salvadorans/Guatemalans	9.0	8.9	12.1	8.9	8.8	12.4
	(0.03)	(0.03)	(0.16)	(0.03)	(0.03)	(0.15)
	[21,988]	[21,378]	[610]	[19,976]	[19,330]	[646]
Other Central Americans	11.2	10.9	13.4	11.6	11.4	13.7
	(0.04)	(0.04)	(0.11)	(0.04)	(0.04)	(0.10)
	[9,830]	[9,004]	[826]	[11,585]	[10,664]	[921]
Colombians	12.8	12.7	13.7	12.6	12.5	14.2
	(0.04)	(0.04)	(0.11)	(0.04)	(0.04)	(0.11)
	[7,583]	[6,851]	[732]	[9,236]	[8,538]	[698]
Peruvians/Ecuadorans	12.3	12.2	13.8	12.5	12.3	14.2
	(0.04)	(0.04)	(0.11)	(0.03)	(0.04)	(0.10)
	[9,126]	[8,478]	[648]	[9,127]	[8,394]	[733]
Other South Americans	13.7	13.6	14.4	13.7	13.5	14.7
	(0.04)	(0.04)	(0.10)	(0.04)	(0.04)	(0.10)
	[5,994]	[5,363]	[631]	[6,214]	[5,528]	[686]
Other Hispanics	12.3	13.3	12.2	12.5	13.2	12.4
	(0.02)	(0.09)	(0.02)	(0.02)	(0.08)	(0.02)
	[23,347]	[1,985]	[21,362]	[25,999]	[2,265]	[23,734]

Note: Standard errors are shown in parentheses, and sample sizes are shown in brackets. The samples include individuals aged 25-59.

Table A2: English Proficiency, by Gender, Detailed Ethnicity, and Nativity

		Men, by Nativi	ity	V	omen, by Nati	vity
		Foreign-	-	-	Foreign-	•
Ethnicity	All	Born	U.SBorn	All	Born	U.SBorn
Whites						
Percent Who Speak English:						
Only			96.9			96.8
Very Well			2.5			2.6
Well			0.4			0.3
Not Well			0.2			0.3
Not At All			0.007			0.008
Blacks						
Percent Who Speak English:						
Only			96.6			97.2
Very Well			2.5			2.0
Well			0.5			0.4
Not Well			0.4			0.3
Not At All			0.008			0.008
All Hispanics						
Percent Who Speak English:						
Only	17.4	5.9	38.6	18.1	6.2	37.1
Very Well	34.4	26.3	49.2	36.1	26.3	51.7
Well	19.9	25.8	9.2	16.3	21.0	8.6
Not Well	19.2	28.2	2.5	17.7	27.4	2.2
Not At All	9.1	13.9	0.4	11.8	18.9	0.4
Mexicans						
Percent Who Speak English:						
Only	17.3	5.5	37.5	19.1	6.4	36.4
Very Well	31.2	20.5	49.5	33.2	19.7	51.4
Well	19.6	25.4	9.8	14.6	18.5	9.4
Not Well	21.0	31.7	2.7	18.5	30.4	2.4
Not At All	10.9	17.0	0.5	14.5	24.9	0.5
Puerto Ricans						
Percent Who Speak English:						
Only	20.3	9.1	32.9	16.1	6.7	26.7
Very Well	52.3	49.0	56.0	55.0	47.9	63.0
Well	17.0	24.4	8.7	16.5	23.5	8.5
Not Well	8.3	13.7	2.2	9.4	16.3	1.7
Not At All	2.1	3.8	0.1	3.1	5.6	0.1
Cubans						
Percent Who Speak English:	46.5		22.2	4		a
Only	12.2	6.4	33.3	11.6	5.6	32.5
Very Well	45.2	41.2	59.7	48.6	44.6	62.6
Well	16.1	19.1	5.3	14.2	17.3	3.4
Not Well	16.8	21.0	1.4	14.7	18.5	1.3
Not At All	9.6	12.2	0.3	10.9	14.0	0.1

Dominicans Percent Who Speak English:						
	6.7	5.6	17.7	6.2	5.5	13.5
Only	29.1	25.5	67.8	26.7	22.5	74.6
Very Well Well	25.8	27.2		21.6	22.7	9.0
			11.0			
Not Well	26.6	28.8	2.7	29.0	31.3	2.4
Not At All	11.8	12.8	0.9	16.5	18.0	0.5
Salvadorans/Guatemalans						
Percent Who Speak English:						
Only	4.7	4.1	26.7	5.8	5.0	27.7
Very Well	24.1	23.2	55.2	21.7	20.5	58.5
Well	28.8	29.3	11.6	24.7	25.2	8.7
Not Well	30.2	30.9	5.5	31.5	32.4	3.3
Not At All	12.2	12.5	1.0	16.4	16.9	1.8
Other Central Americans Percent Who Speak English:						
Only	9.8	6.5	44.1	9.7	6.6	45.1
Very Well	34.6	33.6	45.7	35.1	34.2	45.7
Well	23.3	24.7	8.2	22.4	23.8	6.5
Not Well	21.9	23.9	1.1	21.2	22.8	2.1
Not At All	10.4	11.3	0.9	11.6	12.6	0.7
Colombians						
Percent Who Speak English:						
Only	7.3	4.9	30.0	6.3	4.5	27.1
Very Well	36.4	34.0	57.7	31.6	28.9	63.8
Well	28.6	30.8	8.6	26.5	28.2	5.3
Not Well	20.8	22.8	2.7	24.8	26.6	3.1
Not At All	6.8	7.5	1.0	10.9	11.7	0.6
Peruvians/Ecuadorans Percent Who Speak English:						
Only	6.4	4.7	28.1	6.9	5.0	28.7
Very Well	34.9	32.8	62.5	34.4	31.8	64.5
Well	29.1	30.9	6.2	25.7	27.5	5.6
Not Well	23.4	25.0	2.5	24.3	26.3	1.0
Not At All	6.1	6.6	0.7	8.7	9.4	0.2
Other South Americans						
Percent Who Speak English:						
Only	10.8	7.7	37.2	9.4	6.2	36.4
Very Well	48.2	47.3	55.8	46.4	45.1	57.6
Well	25.7	28.0	5.9	25.7	28.3	4.8
Not Well	12.1	13.5	0.9	14.2	15.8	1.2
Not At All	3.2	3.5	0.2	4.2	4.7	0
Other Hispanics						
Percent Who Speak English:						
Only	47.6	18.8	50.5	48.0	19.8	51.0
Very Well	39.9	44.6	39.4	40.6	44.1	40.3
Well	9.3	24.4	7.8	8.4	23.9	6.8
Not Well	9.3 2.9	10.5	2.1	2.5	10.2	1.7
Not At All	0.4	10.5	0.2	0.4	2.1	0.2
NULALAII	0.4	1.0	0.2	0.4	∠.1	0.2

Note: The samples include individuals aged 25-59.

Table A3: Annual Employment Rates, by Gender, Detailed Ethnicity, and Nativity

		Men, by Nativ	ity	V	omen, by Nativ	ity
		Foreign-			Foreign-	-
Ethnicity	All	Born	U.SBorn	All	Born	U.SBorn
Whites			0.918 (0.0006)			0.802 (0.0008)
Blacks			0.774 (0.0008)			0.777 (0.0007)
All Hispanics	0.868	0.875	0.856	0.670	0.612	0.763
	(0.0005)	(0.0007)	(0.001)	(0.0008)	(0.001)	(0.001)
Mexicans	0.878	0.885	0.865	0.647	0.561	0.764
	(0.0007)	(0.0008)	(0.001)	(0.001)	(0.001)	(0.001)
Puerto Ricans	0.800	0.766	0.838	0.677	0.608	0.755
	(0.002)	(0.003)	(0.003)	(0.002)	(0.003)	(0.003)
Cubans	0.873	0.868	0.891	0.747	0.725	0.825
	(0.003)	(0.003)	(0.006)	(0.004)	(0.004)	(0.007)
Dominicans	0.816	0.815	0.818	0.662	0.651	0.792
	(0.004)	(0.004)	(0.013)	(0.004)	(0.005)	(0.013)
Salvadorans/Guatemalans	0.900	0.901	0.859	0.679	0.675	0.776
	(0.002)	(0.002)	(0.014)	(0.003)	(0.003)	(0.016)
Other Central Americans	0.890	0.891	0.879	0.718	0.708	0.831
	(0.003)	(0.003)	(0.011)	(0.004)	(0.004)	(0.012)
Colombians	0.879	0.879	0.875	0.706	0.695	0.825
	(0.004)	(0.004)	(0.012)	(0.005)	(0.005)	(0.014)
Peruvians/Ecuadorans	0.905	0.903	0.935	0.721	0.710	0.843
	(0.003)	(0.003)	(0.010)	(0.005)	(0.005)	(0.013)
Other South Americans	0.907	0.906	0.917	0.713	0.696	0.859
	(0.004)	(0.004)	(0.011)	(0.006)	(0.006)	(0.013)
Other Hispanics	0.829	0.912	0.820	0.742	0.718	0.745
	(0.002)	(0.006)	(0.003)	(0.003)	(0.009)	(0.003)

Note: Standard errors are shown in parentheses. The samples include individuals aged 25-59.

Table A4: Employment Differentials, by Gender, Detailed Ethnicity, and Nativity

	Employment Differentials, Relative to U.SBorn Whites							
Ethnicity/Nativity	Men			Women				
	(1)	(2)	(3)	(1)	(2)	(3)		
U.SBorn Blacks	147	125	125	023	001	002		
	(.001)	(.001)	(.001)	(.001)	(.001)	(.001)		
All Hispanics:								
All	058	.003	003	134	046	005		
	(.001)	(.001)	(.001)	(.001)	(.001)	(.002)		
Foreign-Born	051	.031	.040	191	076	021		
II.G. D	(.001)	(.001)	(.002)	(.002)	(.002)	(.002)		
U.SBorn	071	043	036	040	002	.006		
Mariana	(.001)	(.001)	(.002)	(.002)	(.002)	(.002)		
Mexicans:	051	.027	025	160	049	002		
All	(.001)	(.001)	.025 (.002)	(.002)	(.002)	(.002)		
Equation Down	(.001) 045	.062	.078	248	(.002) 094	028		
Foreign-Born	(.001)							
HC D	` /	(.002)	(.002)	(.002)	(.002)	(.003)		
U.SBorn	061	026	019	041	.005	.014		
Puerto Ricans:	(.002)	(.002)	(.002)	(.002)	(.002)	(.003)		
All	119	082	079	127	075	050		
All	(.003)	(.003)	(.003)	(.004)	(.003)	(.004)		
Foreign-Born	146	095	084	188	122	088		
r-oreign-born	(.004)	(.004)	(.004)	(.005)	(.005)	(.005)		
U.SBorn	088	062	055	059	025	016		
U.SBOIII	(.004)	(.004)	(.004)	(.005)	(.005)	(.005)		
<u>Cubans</u> :	(.004)	(.004)	(.004)	(.003)	(.003)	(.003)		
All	038	022	021	051	031	.011		
7 111	(.004)	(.004)	(.004)	(.006)	(.006)	(.006)		
Foreign-Born	039	016	001	069	040	.006		
1 oreign 2 orn	(.005)	(.005)	(.005)	(.007)	(.006)	(.007)		
U.SBorn	036	036	028	.006	005	.003		
0.6. 2011	(.009)	(.009)	(.009)	(.012)	(.012)	(.012)		
Dominicans:	(,	(1005)	(100)	()	()	()		
All	096	041	044	135	050	.014		
	(.005)	(.005)	(.005)	(.006)	(.006)	(.006)		
Foreign-Born	095	034	020	145	057	.004		
	(.005)	(.005)	(.005)	(.006)	(.006)	(.006)		
U.SBorn	104	080	071	025	003	.009		
	(.017)	(.016)	(.016)	(.021)	(.021)	(.021)		
Salvadorians/Guatemalans:	, ,	, ,	` ,	, ,	, ,	` /		
All	030	.064	.059	128	.018	.083		
	(.003)	(.003)	(.004)	(.005)	(.005)	(.005)		
Foreign-Born	028	.071	.085	133	.013	.073		
	(.003)	(.003)	(.004)	(.005)	(.005)	(.005)		
U.SBorn	071	037	029	044	.001	.013		
	(.021)	(.020)	(.020)	(.027)	(.026)	(.026)		
Other Central Americans:	, ,	, ,	, ,	, ,	, ,	, ,		
All	035	.014	.012	087	021	.030		
	(.005)	(.005)	(.005)	(.006)	(.006)	(.006)		
Foreign-Born	033	.023	.036	096	027	.021		
	(.005)	(.005)	(.005)	(.006)	(.006)	(.007)		
U.SBorn	051	043	037	.014	.018	.028		
	(.017)	(.017)	(.017)	(.022)	(.021)	(.021)		

Colombians:						
All	041	024	027	096	063	005
	(.006)	(.006)	(.006)	(.007)	(.007)	(.007)
Foreign-Born	039	019	006	105	069	016
	(.006)	(.006)	(.006)	(.007)	(.007)	(.007)
U.SBorn	057	058	050	.002	005	.006
	(.018)	(.018)	(.018)	(.025)	(.024)	(.024)
Peruvians/Ecuadorans:						
All	013	.013	.010	080	040	.012
	(.005)	(.005)	(.005)	(.007)	(.007)	(.007)
Foreign-Born	015	.016	.028	089	047	.003
-	(.005)	(.005)	(.005)	(.007)	(.007)	(.007)
U.SBorn	.006	.005	.014	.019	.014	.023
	(.019)	(.019)	(.019)	(.025)	(.024)	(.024)
Other South Americans:						
All	014	014	015	092	089	050
	(.006)	(.006)	(.006)	(800.)	(800.)	(800.)
Foreign-Born	014	012	001	109	102	065
	(.007)	(.007)	(.007)	(.009)	(.009)	(.009)
U.SBorn	016	028	021	.039	.016	.025
	(.020)	(.019)	(.019)	(.026)	(.025)	(.025)
Other Hispanics:						
All	094	065	063	062	021	011
	(.003)	(.003)	(.003)	(.004)	(.004)	(.004)
Foreign-Born	009	.000	.009	089	071	046
	(.011)	(.011)	(.011)	(.014)	(.014)	(.014)
U.SBorn	103	072	067	056	015	009
	(.004)	(.003)	(.004)	(.005)	(.005)	(.005)
Controls for:						
Geographic Location	Yes	Yes	Yes	Yes	Yes	Yes
Age	Yes	Yes	Yes	Yes	Yes	Yes
Education	No	Yes	Yes	No	Yes	Yes
English Proficiency	No	No	Yes	No	No	Yes
	-~	•			•	

Note: The reported figures are estimated coefficients from least squares regressions in which the dependent variable is a dummy variable indicating whether the respondent worked at all during the calendar year preceding the survey. Standard errors are shown in parentheses. The samples include individuals aged 25-59.

Table A5: Self-Employment Rates, by Gender, Detailed Ethnicity, and Nativity

		Men, by Nativ	ity	Women, by Nativity			
	Foreign-						
Ethnicity	All	Born	U.SBorn	All	Born	U.SBorn	
Whites			0.139 (0.0008)			0.081 (0.0007)	
Blacks			0.058 (0.0005)			0.034 (0.0004)	
All Hispanics	0.082	0.084	0.079	0.066	0.080	0.050	
	(0.0005)	(0.0007)	(0.001)	(0.0006)	(0.0008)	(0.001)	
Mexicans	0.075	0.074	0.077	0.061	0.076	0.048	
	(0.0006)	(0.0008)	(0.001)	(0.0007)	(0.0011)	(0.001)	
Puerto Ricans	0.056	0.057	0.055	0.040	0.042	0.038	
	(0.002)	(0.002)	(0.002)	(0.001)	(0.002)	(0.002)	
Cubans	0.159	0.169	0.127	0.074	0.076	0.071	
	(0.003)	(0.004)	(0.007)	(0.003)	(0.003)	(0.005)	
Dominicans	0.102	0.105	0.073	0.061	0.066	0.024	
	(0.004)	(0.004)	(0.011)	(0.003)	(0.003)	(0.006)	
Salvadorans/Guatemalans	0.076	0.076	0.068	0.106	0.109	0.029	
	(0.002)	(0.002)	(0.012)	(0.003)	(0.003)	(0.008)	
Other Central Americans	0.076	0.075	0.089	0.078	0.079	0.068	
	(0.003)	(0.003)	(0.011)	(0.003)	(0.003)	(0.010)	
Colombians	0.109	0.113	0.071	0.116	0.123	0.053	
	(0.004)	(0.004)	(0.011)	(0.004)	(0.005)	(0.010)	
Peruvians/Ecuadorans	0.102	0.106	0.063	0.086	0.092	0.035	
	(0.004)	(0.004)	(0.011)	(0.004)	(0.004)	(0.008)	
Other South Americans	0.145	0.150	0.103	0.114	0.120	0.072	
	(0.005)	(0.005)	(0.013)	(0.005)	(0.006)	(0.011)	
Other Hispanics	0.103	0.140	0.099	0.065	0.104	0.061	
	(0.002)	(0.009)	(0.002)	(0.002)	(0.008)	(0.002)	

Note: Standard errors are shown in parentheses. The samples include individuals aged 25-59 who were employed during the Census reference week.

Table A6: Self-Employment Differentials, by Gender, Detailed Ethnicity, and Nativity

	Self-Employment Differentials, Relative to U.SBorn Whites							
Ethnicity/Nativity	Men			Women				
	(1)	(2)	(3)	(1)	(2)	(3)		
U.SBorn Blacks	075	074	074	042	042	042		
	(.001)	(.001)	(.001)	(.001)	(.001)	(.001)		
All Hispanics:								
All	052	048	061	020	020	029		
	(.001)	(.001)	(.002)	(.001)	(.001)	(.002)		
Foreign-Born	050	044	055	006	006	014		
II.G. D	(.002)	(.002)	(.002)	(.001)	(.002)	(.002)		
U.SBorn	056	054	066	036	036	039		
Mariana	(.002)	(.002)	(.002)	(.002)	(.002)	(.002)		
Mexicans:	050	055	066	020	020	027		
All	059 (.002)	055	066 (.002)	029 (.002)	029	037		
Foreign Dorn	057	(.002) 051	060	015	(.002) 015	(.002) 024		
Foreign-Born	(.002)	(.002)	(.003)	(.002)	(.002)	(.003)		
U.SBorn	(.002) 061	060	071	041	(.002) 041	044		
U.SBOIII	(.002)	(.002)	(.003)	(.002)	(.002)	(.002)		
Puerto Ricans:	(.002)	(.002)	(.003)	(.002)	(.002)	(.002)		
All	073	072	087	033	033	039		
All	(.004)	(.004)	(.004)	(.003)	(.003)	(.003)		
Foreign-Born	082	080	097	034	034	041		
Toleigh Bolh	(.005)	(.005)	(.006)	(.005)	(.005)	(.005)		
U.SBorn	065	063	076	031	031	034		
C.S. Bolli	(.005)	(.005)	(.006)	(.004)	(.004)	(.004)		
<u>Cubans</u> :	(1000)	(,	(1000)	(1001)	(1001)	(1001)		
All	.010	.011	003	011	011	018		
	(.006)	(.006)	(.006)	(.005)	(.005)	(.005)		
Foreign-Born	.012	.013	.000	013	013	020		
	(.006)	(.006)	(.007)	(.006)	(.006)	(.006)		
U.SBorn	.005	.004	008	003	003	006		
	(.011)	(.011)	(.011)	(.009)	(.009)	(.009)		
<u>Dominicans</u> :								
All	029	026	039	009	010	022		
	(.007)	(.007)	(.007)	(.006)	(.006)	(.006)		
Foreign-Born	028	025	036	006	006	016		
	(800.)	(800.)	(800.)	(.006)	(.006)	(.006)		
U.SBorn	029	028	044	036	036	039		
	(.024)	(.024)	(.024)	(.017)	(.017)	(.017)		
Salvadorians/Guatemalans:								
All	054	049	062	.018	.017	.003		
	(.005)	(.005)	(.005)	(.004)	(.005)	(.005)		
Foreign-Born	054	049	060	.021	.021	.011		
	(.005)	(.005)	(.005)	(.005)	(.005)	(.005)		
U.SBorn	050	049	062	049	049	052		
	(.028)	(.028)	(.028)	(.022)	(.022)	(.022)		
Other Central Americans:								
All	056	054	067	006	006	016		
	(.007)	(.007)	(.007)	(.006)	(.006)	(.006)		
Foreign-Born	058	055	067	005	005	013		
	(.007)	(.007)	(.007)	(.006)	(.006)	(.006)		
U.SBorn	035	035	046	009	009	011		
	(.022)	(.022)	(.022)	(.017)	(.017)	(.017)		

.006 (.008) .008 (.009) 011 (.025) 037 (.005) .000 (.014) 041 (.005) Yes Yes	011 (.008) 008 (.009) 023 (.025) 046 (.005) 014 (.015) 050 (.005) Yes Yes Yes	.032 (.007) .037 (.008) 002 (.020) 027 (.004) .022 (.012) 032 (.004) Yes Yes No	.032 (.007) .037 (.008) 002 (.020) 027 (.004) .022 (.012) 032 (.004) Yes Yes Yes	.023 (.007) .030 (.008) 004 (.020) 030 (.004) .016 (.012) 034 (.004) Yes Yes
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(.008) .008 (.009) 011 (.025) 037 (.005) .000 (.014) 041	(.008) 008 (.009) 023 (.025) 046 (.005) 014 (.015) 050	(.007) .037 (.008) 002 (.020) 027 (.004) .022 (.012) 032	(.007) .037 (.008) 002 (.020) 027 (.004) .022 (.012) 032	(.007) .030 (.008) 004 (.020) 030 (.004) .016 (.012) 034
(.008) .008 (.009) 011 (.025) 037 (.005) .000 (.014)	(.008) 008 (.009) 023 (.025) 046 (.005) 014 (.015)	(.007) .037 (.008) 002 (.020) 027 (.004) .022 (.012)	(.007) .037 (.008) 002 (.020) 027 (.004) .022 (.012)	(.007) .030 (.008) 004 (.020) 030 (.004) .016 (.012)
(.008) .008 (.009) 011 (.025) 037 (.005) .000	(.008) 008 (.009) 023 (.025) 046 (.005) 014	(.007) .037 (.008) 002 (.020) 027 (.004) .022	(.007) .037 (.008) 002 (.020) 027 (.004) .022	(.007) .030 (.008) 004 (.020) 030 (.004) .016
(.008) .008 (.009) 011 (.025) 037 (.005)	(.008) 008 (.009) 023 (.025) 046 (.005)	(.007) .037 (.008) 002 (.020) 027 (.004)	(.007) .037 (.008) 002 (.020) 027 (.004)	(.007) .030 (.008) 004 (.020) 030 (.004)
(.008) .008 (.009) 011 (.025)	(.008) 008 (.009) 023 (.025)	(.007) .037 (.008) 002 (.020)	(.007) .037 (.008) 002 (.020)	(.007) .030 (.008) 004 (.020)
(.008) .008 (.009) 011 (.025)	(.008) 008 (.009) 023 (.025)	(.007) .037 (.008) 002 (.020)	(.007) .037 (.008) 002 (.020)	(.007) .030 (.008) 004 (.020)
(.008) .008 (.009) 011	(.008) 008 (.009) 023	(.007) .037 (.008) 002	(.007) .037 (.008) 002	(.007) .030 (.008) 004
(.008) .008 (.009) 011	(.008) 008 (.009) 023	(.007) .037 (.008) 002	(.007) .037 (.008) 002	(.007) .030 (.008) 004
(.008) .008 (.009)	(.008) 008 (.009)	(.007) .037 (.008)	(.007) .037 (.008)	(.007) .030 (.008)
(800.) .008	(.008) 008	(.007) .037	(.007) .037	(.007) .030
(.008)	(.008)	(.007)	(.007)	(.007)
006	011	022	022	022
(.024)	(.024)	(.019)	(.019)	(.019)
044	057	033	033	035
` '	'	` '	` '	(.007)
				.004
` '	` '	, ,	` /	(.006)
030	045	.008	.008	004
(.024)	(.024)	(.019)	(.019)	(.019)
036	049	011	011	014
(.008)	(.008)	(.006)	(.006)	(.007)
027	041	.043	.043	.033
(.008)	(.008)	(.006)	(.006)	(.006)
028	043	.037	.037	.025
	(.008) 027 (.008) 036 (.024)	(.008) (.008) 027041 (.008) (.008) 036049 (.024) (.024) 030045 (.007) (.007) 029042	(.008) (.008) (.006) 027 041 .043 (.008) (.008) (.006) 036 049 011 (.024) (.024) (.019) 030 045 .008 (.007) (.007) (.006) 029 042 .013	(.008) (.008) (.006) (.006) 027 041 .043 .043 (.008) (.008) (.006) (.006) 036 049 011 011 (.024) (.024) (.019) (.019) 030 045 .008 .008 (.007) (.007) (.006) (.006) 029 042 .013 .013

Note: The reported figures are estimated coefficients from least squares regressions in which the dependent variable is a dummy variable indicating whether the respondent is self-employed. Standard errors are shown in parentheses. The samples include individuals aged 25-59 who were employed during the Census reference week.

Table A7: Annual Earnings Differentials, by Gender, Detailed Ethnicity, and Nativity

	Log Earnings Differentials, Relative to U.SBorn Whites							
Ethnicity/Nativity	Men			Women				
	(1)	(2)	(3)	(1)	(2)	(3)		
U.SBorn Blacks	440	347	348	050	.026	.026		
	(.004)	(.004)	(.004)	(.004)	(.004)	(.004)		
All Hispanics:								
All	492	171	094	333	043	.016		
	(.004)	(.004)	(.005)	(.005)	(.005)	(.006)		
Foreign-Born	588	169	045	492	083	.002		
	(.004)	(.004)	(.007)	(.006)	(.006)	(.008)		
U.SBorn	307	175	133	124	.004	.025		
	(.006)	(.005)	(.006)	(.007)	(.006)	(.007)		
Mexicans:	7.10	1.41	0.55	207	027	022		
All	542	141	057	397	027	.032		
F	(.004)	(.005)	(.006)	(.006)	(.006)	(.007)		
Foreign-Born	658	119	.024	633	053	.044		
TIG D	(.005)	(.006)	(.008)	(.008)	(800.)	(.011)		
U.SBorn	334	174	129	162	004	.019		
D D'	(.007)	(.007)	(.007)	(800.)	(800.)	(.009)		
Puerto Ricans:	200	210	1.60	170	020	01.4		
All	380	218	162	172	028	.014		
Г : В	(.011)	(.010)	(.011)	(.012)	(.012)	(.013)		
Foreign-Born	463	251	162	279	101	037		
TIG D	(.015)	(.014)	(.015)	(.018)	(.017)	(.018)		
U.SBorn	297	183	138	076	.036	.060		
C 1	(.015)	(.015)	(.015)	(.017)	(.017)	(.017)		
Cubans:	2.42	1.00	007	021	025	002		
All	242	169	087	021	.025	.083		
Г : В	(.016)	(.015)	(.016)	(.020)	(.019)	(.020)		
Foreign-Born	315	215	097	097	018	.053		
H.C.D	(.018)	(.017)	(.018)	(.022)	(.022)	(.022)		
U.SBorn	.007	008	.036	.200	.150	.168		
Danisia	(.033)	(.032)	(.032)	(.039)	(.038)	(.038)		
<u>Dominicans</u> :	627	262	262	175	170	005		
All	637	363	263	475	178	085		
Es as is an Desay	(.019)	(.019)	(.019)	(.022)	(.021)	(.022)		
Foreign-Born	672	379	246	532	212	112		
IIC Dawn	(.020)	(.020)	(.020)	(.023)	(.022)	(.023)		
U.SBorn	267 (.065)	175	115 (.063)	.047 (.070)	.122 (.068)	.152		
Salvadarians/Guatamalans	(.003)	(.063)	(.003)	(.070)	(.008)	(.068)		
Salvadorians/Guatemalans: All	599	112	008	500	.055	.153		
All	(.013)	(.012)	(.013)	(.017)	(.017)	(.018)		
Foreign Down	, ,		, ,	, ,	, ,	. ,		
Foreign-Born	610	111	.026	520	.051	.154		
IIC Down	(.013)	(.013)	(.014)	(.018)	(.017)	(.018)		
U.SBorn	205	056 (076)	.001	048	.090	.119		
Other Central Americans	(.078)	(.076)	(.076)	(.089)	(.086)	(.086)		
Other Central Americans:	470	216	124	257	122	045		
All	470 (010)	216 (.018)	124 (.010)	357	123 (021)	045		
Earaign Dorn	(.019)		(.019)	(.022)	(.021)	(.022)		
Foreign-Born	502 (020)	224 (010)	100 (.010)	405 (023)	148 (022)	064		
II C Porn	(.020) 143	(.019)	(.019)	(.023) .092	(.022)	(.023) .122		
U.SBorn		121 (061)	080 (.061)		.101			
	(.063)	(.061)	(.061)	(.070)	(.068)	(.068)		

Colombians:						
All	403	311	221	341	211	122
	(.021)	(.021)	(.021)	(.024)	(.024)	(.024)
Foreign-Born	432	325	205	395	248	153
	(.022)	(.022)	(.022)	(.025)	(.025)	(.025)
U.SBorn	150	178	129	.176	.143	.167
	(.068)	(.066)	(.066)	(.080.)	(.078)	(.078)
Peruvians/Ecuadorans:						
All	458	318	226	307	163	078
	(.019)	(.019)	(.019)	(.024)	(.024)	(.024)
Foreign-Born	493	339	218	357	196	105
	(.020)	(.019)	(.020)	(.025)	(.025)	(.025)
U.SBorn	040	044	.006	.155	.142	.165
	(.070)	(.068)	(.068)	(.079)	(.077)	(.077)
Other South Americans:						
All	194	189	113	155	152	085
	(.024)	(.023)	(.023)	(.029)	(.028)	(.029)
Foreign-Born	227	213	115	205	185	114
	(.025)	(.024)	(.024)	(.031)	(.030)	(.031)
U.SBorn	.069	.012	.055	.163	.075	.095
	(.072)	(.070)	(.070)	(.081)	(.079)	(.079)
Other Hispanics:						
All	319	184	152	168	033	013
	(.013)	(.013)	(.013)	(.015)	(.015)	(.015)
Foreign-Born	165	116	035	114	085	033
	(.041)	(.039)	(.039)	(.048)	(.047)	(.047)
U.SBorn	331	192	160	168	027	011
	(.014)	(.013)	(.014)	(.016)	(.015)	(.016)
Controls for:						
Geographic Location	Yes	Yes	Yes	Yes	Yes	Yes
Age	Yes	Yes	Yes	Yes	Yes	Yes
Education	No	Yes	Yes	No	Yes	Yes
English Proficiency	No	No	Yes	No	No	Yes

Note: The reported figures are estimated coefficients from least squares regressions in which the dependent variable is the natural logarithm of annual earnings. Standard errors are shown in parentheses. The samples include individuals aged 25-59 who worked during the calendar year preceding the survey.

Table A8: Average Years of Schooling, by Gender, Ethnicity, and Generation

		Men, by G	eneration			Women, by Generation			
Ethnicity	All	1st	2nd	3rd+	All	1st	2nd	3rd+	
Whites				13.6 (.007)				13.6 (.007)	
				[110,226]				[115,031]	
Blacks				12.7				12.9	
				(.02) [12,820]				(.02) [17,395]	
All Hispanics	10.7	9.7	12.5	12.4	10.9	9.9	12.6	12.4	
	(.02) [26,190]	(.03) [16,772]	(.04) [3,539]	(.03) [5,879]	(.02) [27,489]	(.03) [16,627]	(.04) [4,150]	(.03) [6,712]	
Mexicans	10.1	8.8	12.2	12.3	10.3	8.7	12.2	12.2	
	(.03) [16,316]	(.04) [10,051]	(.06) [2,009]	(.04) [4,256]	(.03) [16,064]	(.04) [8,852]	(.05) [2,344]	(.04) [4,868]	
Puerto Ricans	11.9	11.2	12.5	12.7	12.1	11.6	12.7	12.8	
	(.06) [2,348]	(.10) [1,232]	(.08) [800]	(.15) [316]	(.06) [2,975]	(.09) [1,551]	(.07) [1,044]	(.14) [380]	
Cubans	12.8	12.5	14.1	12.2	13.0	12.6	14.3	13.8	
	(.09) [1,116]	(.11) [853]	(.15) [229]	(.51) [34]	(.09) [1,116]	(.11) [868]	(.17) [208]	(.43) [40]	
Central/South Americans	11.2	11.0	13.5	12.4	11.5	11.2	13.9	13.4	
	(.06) [4,352]	(.07) [3,935]	(.15) [277]	(.26) [140]	(.06) [4,931]	(.06) [4,428]	(.14) [324]	(.18) [179]	
Other Hispanics	12.5	11.7	13.4	13.1	12.3	11.2	13.2	13.1	
	(.07) [2,058]	(.13) [701]	(.17) [224]	(.07) [1,133]	(.06) [2,403]	(.13) [928]	(.14) [230]	(.06) [1,245]	

Source: March 1998-2002 CPS data.

Note: Standard errors are shown in parentheses, and sample sizes are shown in brackets. The samples include individuals aged 25-59.

Table A9: Annual Earnings Differentials, by Gender, Ethnicity, and Generation

	Log Earnings Differentials, Relative to 3rd+ Generation Whites							
		Men	, 1101	Women				
Ethnicity/Generation	(1)	(2)	(3)	(1)	(2)	(3)		
3rd+ Generation Blacks	424	409	309	072	064	.027		
Sta Generation Blacks	(.012)	(.012)	(.011)	(.012)	(.012)	(.011)		
All Hispanics:	(.012)	(.012)	(.011)	(.012)	(.012)	(.011)		
All Generations	539	499	138	356	340	016		
Tim Generations	(.011)	(.011)	(.011)	(.013)	(.013)	(.013)		
1st Generation	644	606	133	521	509	052		
1st Generation	(.013)	(.013)	(.014)	(.017)	(.017)	(.017)		
2nd Generation	382	314	177	120	085	.053		
2nd Generation	(.026)	(.026)	(.025)	(.029)	(.029)	(.028)		
3rd+ Generation	300	271	124	160	147	.008		
Sta Generation	(.022)	(.022)	(.021)	(.024)	(.024)	(.023)		
Mexicans:	(.022)	(.022)	(.021)	(.024)	(.024)	(.023)		
All Generations	592	544	103	424	405	.003		
7 III Generations	(.013)	(.013)	(.014)	(.017)	(.017)	(.017)		
1st Generation	719	668	070	668	650	007		
1st Generation	(.016)	(.016)	(.017)	(.023)	(.023)	(.024)		
2nd Generation	444	381	190	174	142	.048		
2nd Generation	(.033)	(.033)	(.032)	(.037)	(.037)	(.036)		
3rd+ Generation	337	307	131	210	197	007		
31u+ Generation	(.024)	(.024)	(.024)	(.027)	(.027)	(.026)		
Puerto Ricans:	(.024)	(.024)	(.024)	(.027)	(.027)	(.020)		
All Generations	402	376	189	192	175	023		
All Generations	(.035)	(.035)			(.037)			
1st Congretion	(.033) 478	(.03 <i>3)</i> 481	(.034) 225	(.037) 279	278	(.036) 093		
1st Generation								
2-1 Commetica	(.048)	(.047)	(.046)	(.054)	(.054) 102	(.052)		
2nd Generation	357	306	182	135		.030		
2nd Company	(.059)	(.058)	(.057)	(.059)	(.059)	(.058)		
3rd+ Generation	236	162	054	081	051	.051		
Cubana	(.095)	(.095)	(.092)	(.097)	(.097)	(.095)		
<u>Cubans</u> : All Generations	212	204	211	124	116	060		
All Generations	312	304	211 (045)	124	116	060		
1-4 C	(.046)	(.046)	(.045)	(.056)	(.056)	(.055)		
1st Generation	379	391	263	210	215	112		
2.16	(.053)	(.052)	(.051)	(.064)	(.064)	(.063)		
2nd Generation	061	.021	012	.073	.125	.041		
2.1.6	(.102)	(.102)	(.099)	(.122)	(.122)	(.119)		
3rd+ Generation	366	320	172	.365	.390	.355		
G . 1/G . 1 . 1	(.266)	(.264)	(.257)	(.271)	(.271)	(.264)		
Central/South Americans:	5.45	500	200	265	252	0.40		
All Generations	545	509	200	365	353	049		
	(.024)	(.024)	(.023)	(.028)	(.028)	(.027)		
1st Generation	576	546	207	423	414	073		
	(.025)	(.025)	(.024)	(.030)	(.030)	(.029)		
2nd Generation	251	129	091	.072	.129	.148		
	(.091)	(.091)	(.088)	(.100)	(.100)	(.097)		
3rd+ Generation	315	298	178	.055	.056	.107		
	(.135)	(.134)	(.131)	(.142)	(.142)	(.138)		
Other Hispanics:								

All Generations	338	314	162	211	202	028
	(.039)	(.039)	(.038)	(.043)	(.043)	(.042)
1st Generation	509	494	251	454	450	177
	(.059)	(.059)	(.058)	(.067)	(.067)	(.066)
2nd Generation	394	309	265	026	.011	.102
	(.109)	(.108)	(.105)	(.119)	(.119)	(.116)
3rd+ Generation	148	134	046	043	036	.066
	(.058)	(.058)	(.056)	(.063)	(.063)	(.061)
Controls for:						
Survey Year	Yes	Yes	Yes	Yes	Yes	Yes
Geographic Location	Yes	Yes	Yes	Yes	Yes	Yes
Age	No	Yes	Yes	No	Yes	Yes
Education	No	No	Yes	No	No	Yes

Source: March 1998-2002 CPS data.

Note: The reported figures are estimated coefficients from least squares regressions in which the dependent variable is the natural logarithm of annual earnings. Standard errors are shown in parentheses. The samples include individuals aged 25-59 who worked during the calendar year preceding the survey.