Are Immigrant Youth Faring Better in U.S. Schools?1: IMR Frv. Richard

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Are Immigrant Youth Faring Better in U.S. Schools?

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In spite of the growing numbers and geographic dispersion of foreign-born children, the school outcomes of foreign-born teens improved during the 1990s. Analysis of Decennial Census data reveals that fewer immigrant youth dropped out of school and their English language proficiency improved. Some of the improvement is due to compositional change in the foreign-born teen population. Levels of parental education increased over the decade. Poverty among foreign-born adolescents declined. Other youth background characteristics did not change in a favorable direction. Multivariate analysis reveals that there was a large decline in the likelihood of immigrant teens dropping out of school above and beyond the demographic changes over the decade. For example, the likelihood that a Mexican-born teen educated in U.S. schools drops out of school declined by an estimated 43 percent over the 1990s. There is little evidence, however, that U.S. schools have improved in their English language instruction over the decade.

INTRODUCTION

During the 1990s more immigrants came to the U.S. than in any previous decade. Demographers estimate that 16 million immigrants arrived in the 1990s (Passel, 2004). The flow at the end of the decade was more robust than at the start of the 1990s, with at least 1.5 million immigrants arriving per year at the peak (Passel and Suro, 2005). As of 2000, over 31 million foreign-born persons resided in the U.S., about 11 percent of the population. Some of the new arrivals were children. The school-age foreign-born population increased by 1 million over the 1990s, and by 2000, 6 percent of the nation's school-age children were born in another country. This paper examines the changes over the 1990s in some fundamental educational outcomes of foreign-born

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high-school-age youth and reveals that there has been some marked improvement in their educational outcomes. Other indicators show that our nation's schools have made little progress in educating foreign-born youth.

The focus herein is restricted to children born outside the United States.² This ignores the large population of native-born children with at least one foreign-born parent or second-generation children. In 2003 about 14 percent of high school students were native-born children of immigrant parents (U.S. Census Bureau, 2005). The narrow focus on foreign-born children is appropriate because they alone experienced the dislocation of an international move. Foreign-born children differ in many ways from native-born children with foreign-born parents (Johnson *et al.*, 2005). Furthermore, it is difficult in the Decennial Census data utilized herein to pristinely identify second-generation high-school-age youth since some teenagers do not reside with their parents (Hirschman, 2001).

In tracking the changes in the educational outcomes of foreign-born teenagers the analysis delineates teenagers that arrived early in childhood (and thus are the product of U.S. schools) from recently arrived teenagers that were schooled abroad. The outcomes of teens that arrived early in childhood are emphasized because the intent is to gauge how effectively U.S. schools are educating foreign-born children.

The task of educating the increased numbers of foreign-born children during the 1990s occurred in the context of growing demands on our nation's schools. In the wake of the baby boom, total high school enrollments ebbed during the 1980s. High school enrollments rose during the 1990s as the children of the baby boomers matured, and enrollments surpassed the previous 1977 enrollment peak in 1997 (U.S. Census Bureau, 2001). So the growth in the number of foreign-born children during the 1990s was accompanied by growing numbers of native-born children as well.

Many communities experienced the challenges and opportunities of educating foreign-born youth for the first time in the 1990s. Immigration was not only at an all-time high level during the decade, it was also more geographically dispersed than during the 1980s. The foreign-born population more than doubled in 19 states during the 1990s, and these high-growth states do not include the six large traditional receiving states (Capps, Fix, and Passel, 2002). The six large traditional receiving states educated 67 percent of all foreign-born high-school-age youth in 2000, down from 77 percent in 1990. Numerous

²Following convention, youth who are born abroad of American parents are not considered foreign-born.

states received large numbers of newly arrived immigrants and began the task of developing the educational infrastructure and resources to meet the needs of these newly arrived children. Given the volume and new character of immigration, we might not expect the degree of success of foreign-born youth in U.S. schools to remain unaltered.

In spite of the fact that foreign-born youth tend to have disadvantaged families and have experienced the dislocation of an international move, generally they often display a high degree of resiliency and success relative to native-born children. The major assessment of the adjustment of immigrant children concluded that "along a number of important dimensions, children and adolescents in immigrant families appear to experience better health and adjustment than do children and youth in native-born families" (Hernandez, 1999).

The evidence on educational outcomes suggests that foreign-born teens, on average, have less success than their native-born peers. Numerous studies have examined the high school dropout rates of foreign-born adolescents. Studies using household-based surveys uniformly show that nationally, on average, foreign-born youth are less likely to be in school or have finished high school than native-born youth (Wojtkiewicz and Donato, 1995; Vernez and Abrahamse, 1996; Van Hook and Fix, 2000). This assertion is based on the uncontrolled school dropout rate and does not adjust for the teens' background characteristics. The average immigrant teen dropout rate conceals substantial diversity by country of origin. Dropout rates of foreign-born youth from many Asian countries and from other countries outside Mexico and Central America tend to be modest and often below the rate of native-born teens (Hirschman, 2001). Studies based on longitudinal samples of students, rather than the entire population of youth, corroborate the household-based studies (White and Kaufman, 1997; Perreira, Harris, and Lee, 2005).³

Recent studies of the educational achievement of foreign-born students do not yield consistent evidence on their performance on standardized tests. Among 1990 high school sophomores, Glick and White (2003) find that immigrant students that arrived early in childhood score better than native-born

³Using the recent National Longitudinal Study of Adolescent Health, Perreira, Harris, and Lee (2005) report that the rate at which students graduate high school with a regular high school diploma varies only slightly by generation. They also find that native-born students are significantly more likely to finish high school by obtaining a General Educational Development (GED) credential. By inference, therefore, Perreira, Harris, and Lee (2005) also find that immigrant students are less likely to finish high school by graduating with a diploma or obtaining a GED, and hence are more likely to have "dropped out" of school.

students of native parentage on mathematics tests and no worse on reading tests. The 2003 OECD PISA assessments of 15-year-olds indicated that foreign-born students in the U.S. performed significantly worse than native-born students of native parentage in both mathematics and reading (OECD, 2006). Sweetman (2002) examines the performance of 13-year-olds in the Third International Math and Science Survey (TIMSS) and finds that immigrants score below native-born children in mathematics and substantially below natives in science, with the gaps being more pronounced for males than females.

To date there has been little careful analysis of the nature of change over time in the educational outcomes of foreign-born children. Urdan and Garvey (2004) mention in passing that school participation rates of foreign-born teens residing in California increased over the 1990s, but analyzing the change over the decade is not the focus of their analysis.

This investigation carefully examines the change over the decade in the school outcomes of foreign-born high-school-age youth. After presenting the general trends for youth from a large array of countries of origin, we examine the national changes in the demographic and family background of foreign-born teens. The nature of foreign-born teens clearly changed over the decade, reflecting both shifts in international migration flows and improvements in the economic well-being of immigrant households as a result of the robust labor market of the late 1990s. In order to distill whether U.S. schools are more effectively educating foreign-born teens, the key analyses control for the changing background characteristics of foreign-born youth that impact on their educational outcomes. Admittedly, the analysis does not directly measure the inputs that schools are directly devoting to the education of immigrant youth. But the study does carefully disentangle the role of changes in national origin and other demographic characteristics in improving the educational outcomes of foreign-born youth from the secular improvement over the decade.

Since the majority of immigrants arrive in the U.S. during adulthood, the outcomes and adjustment of foreign-born children is only part of the much larger assessment of the contributions and adjustment of immigrants in our society. Nonetheless, some of the more contentious policy debates surrounding immigrant adjustment involve the educational and language practices occurring in our schools. A reasoned understanding of the success and challenges facing foreign-born children in American schools will assist educational decision makers to better allocate the limited school resources devoted to these young newcomers.

DATA AND DEFINITIONS

The analysis uses all the foreign-born 15- to 17-year-old respondents in the 1990 and 2000 Integrated Public Use Micro Samples of the Decennial Census. Youth born in Puerto Rico are included in the analysis. There are 31,313 immigrant youth and 46,718 immigrant youth in the 1990 and 2000 samples, respectively (Appendix Table 1). The descriptive analyses use the appropriate sample weights. Youth residing in institutions are included; however, some independent variables (such as poverty status) are not defined for institutionalized youth. Analyses including such variables omit youth in institutions.

The narrow 15- to 17-year-old age span has conceptual and practical advantages. First, this is the age span in which most American youth attend high school. Second, after age 17 youth increasingly do not reside with their parents and thus linking children to their parental characteristics becomes increasingly problematic. Third, our intent is to measure how foreign-born youth fare in U.S. schools. As is well-known, some recently arrived foreign-born teenagers have never enrolled in U.S. schools. Estimates from a Current Population Survey special supplement reveal that nearly 30 percent of foreign-born youth between the ages of 16 and 24 were never enrolled in U.S. schools (NCES, 1997). Assuming that migration for the purposes of securing job opportunities in the U.S. increases with age, we can presumably limit the proportion of foreign-born youth in the sample that have never enrolled in U.S. schools by examining a younger age span.

Two secondary school outcomes are analyzed. The first is the school dropout rate, or the fraction of youth that are not enrolled in school at the date of interview and have not completed high school. The second is the limited English proficiency rate or the fraction of youth who do not speak only English at home and self-report speaking English "well," "not well," or "not at all." Although this measure is solely based on self-reported English-speaking abilities, Van Hook and Fix (2000) report that it closely proxies school-based survey estimates of LEP status. A teenager's English-speaking abilities reflect his familial linguistic background as well as schooling. Nonetheless, elementary and secondary schools devote significant resources to English language acquisition and it seems entirely *apropos* to interpret limited English speaking as a school outcome for 15- to 17-year-old youth.

⁴The National Center for Education Statistics presents three types of dropout rates: status, event, and cohort (NCES, 2006). The dropout rate in this paper is the status dropout rate.

TABLE 1
SCHOOL OUTCOMES FOR 15- TO 17-YEAR-OLD YOUTH, BY NATIVITY (IN PERCENT)

	Dro	pout		l English iking
Nativity	1990	2000	1990	2000
Foreign-Born Youth ^a	12.4	11.6	39.1	39.0
Early childhood immigrantb	7.8	5.1	21.3	20.4
Recent immigrant	16.3	16.3	54.2	52.2
U.SBorn	6.5	3.5	2.9	3.1

Notes: *Foreign-born youth includes youth born in Puerto Rico.

Source: 1990 and 2000 Decennial Census 5% Integrated Public Use Microdata Samples (IPUMS).

THE IMPROVEMENT IN ADOLESCENT FOREIGN-BORN BASIC SCHOOL OUTCOMES

High school dropout rates for American youth *in toto* have been declining for the past 30 years (NCES, 2006). Between 1990 and 2000, the high school dropout rate for 16- to 19-year-old youth declined for most racial/ethnic groups (U.S. Census Bureau, 2003). School dropout rates for foreign-born youth also declined during the 1990s (Table 1). For 15- to 17-year-old youth the dropout rate fell from 12.4 percent in 1990 to 11.6 percent in 2000.

Educational outcomes for foreign-born youth are often disaggregated by time of arrival in the U.S. Early childhood arrivals received all or nearly all of their schooling in the U.S. Thus, foreign-born youth that arrived early in childhood all had experienced U.S. schooling to some degree and we know that their outcomes largely reflect their experience in U.S. schools. As discussed above, some recently arrived youth never have enrolled in U.S. schools. Outcomes for recently arrived youth thus are not a pristine reflection of recently arrived youth's experience in U.S. schools and are not an exact indicator of the performance of U.S. schools.

Following Hirschman (2001), I define early childhood arrivals as youth who arrived more than eight years before the Census enumeration. Early childhood arrivals arrived no later than age 8 or before third grade. In 2000 about 40 percent of foreign-born 15- to 17-year-olds arrived in the U.S. early in childhood.

^bEarly childhood immigrants arrived more than 8 years before the Census enumeration. Recent immigrants arrived within 8 years of the Census.

⁵The 2000 Census provides the exact year in which the person first entered the United States. The 1990 Census provides the year of entry only in intervals. So for the 1990 Census the person's exact age at arrival cannot be imputed. For this reason, recency of arrival is defined in terms of date of entry to the United States rather than an exact age at arrival.

The dropout rate for early childhood arrivals declined by nearly 3 percentage points, similar to the measured decline for native-born youth. The dropout rate for recently arrived youth remained unchanged at 16.3 percent from 1990 to 2000.

The decline in dropout rates since 1990 that is apparent in the Decennial Census data is corroborated in other data sources. The dropout rate series published by the National Center for Education Statistics (based on the Current Population Survey) shows a decline since 1990 (NCES, 2006). The decline in the dropout rate is probably because more youth are remaining enrolled in school and not because more youth are completing high school. The long increase in high school completion peaked in 1990 and has been flat since then (NCES, 2006). However, neither the decline in the dropout rate nor the constancy of high school completion is necessarily inconsistent with the well-publicized fall in high school graduation rates. It is possible that a larger fraction of youth are remaining in school and trying to complete their high school education (in which in case they are not dropouts) and yet fewer youth are completing their high school education within four years via graduation with a high school diploma (as opposed to completing via equivalency exams such as the GED). Researchers are trying to reconcile these divergent trends (Warren and Halpern-Manners, 2006).

Complementing the improving school enrollment rate of foreign-born youth, the English-speaking abilities of immigrant youth increased as well over the 1990s. The percent of early childhood arrivals that had limited English-speaking abilities fell from 21.3 percent to 20.4 percent (Table 1). Analysis reported below documents that this is a statistically significant decline in the limited English-speaking rate.

Foreign-born youth's school enrollment propensities vary substantially by country of origin (Hirschman, 2001). Generally, youth from Mexico and some Central American countries are much more likely to be out of school than other foreign-born youth. There is also considerable diversity in the English-speaking skills of foreign-born teens. Unlike Van Hook and Fix (2000), however, the 2000 Census data do not reveal a marked Asian advantage among foreign-born teens (Table 2). Youth from some Asian countries have nearly as high limited English-speaking rates as their counterparts from Mexico and some Central American countries.

The overall improvement in the school outcomes of foreign-born teens from 1990 to 2000 is not due to change in the country of origin composition over the decade. Table 2 reports school outcomes for 39 countries or regions of origin. In the majority of cases school outcomes improved for youth from

TABLE 2
SCHOOL Dropout and Limited English Rates of 15- to 17-Year-Olds, by Place of Birth (in Percent)

	Ear	rly Childho	od Immig	rant		Recent	Arrival	
	School	Dropout	Limited	l English	School	Dropout	Limited	l English
Place of Birth	1990	2000	1990	2000	1990	2000	1990	2000
Canada	3.3	2.8	4.5	2.5	7.7	4.7	5.1	4.5
Mexico	11.1	8.1	29.6	29.0	36.4	32.6	74.5	70.2
El Salvador	7.5	5.3	22.6	25.1	20.6	23.9	62.7	68.3
Guatemala	5.5	6.5	18.1	17.6	23.5	26.9	68.6	66.0
Nicaragua	4.4	4.0	13.1	15.2	8.5	8.1	66.9	56.3
Other Central America ^a	5.2	6.9	12.4	17.4	9.7	16.4	51.2	53.6
Cuba	9.1	11.0	16.2	16.0	11.0	4.9	56.8	50.0
Dominican Republic	11.1	4.7	26.5	24.6	9.8	5.5	59.7	47.8
Haiti	12.3	2.8	26.0	21.0	5.9	6.8	53.0	48.9
Jamaica	2.3	1.8	2.4	3.7	7.5	3.9	1.7	2.5
Puerto Rico	14.9	6.5	21.4	17.9	11.2	12.9	46.2	43.9
Other Caribbean ^b	7.2	3.2	3.7	3.5	5.1	1.3	4.7	2.8
Colombia	6.4	2.2	13.5	10.9	7.0	4.4	47.6	54.8
Ecuador	3.2	4.8	15.1	18.0	12.3	15.2	49.4	56.8
Guyana/British Guiana	5.2	0.5	0.7	3.2	12.0	0.0	1.9	6.1
Peru	1.8	4.1	26.4	16.0	3.7	4.7	48.1	46.7
Other South America ^c	4.5	1.8	9.6	5.9	7.4	4.2	42.7	42.5
England	3.2	5.1	1.6	5.7	5.9	1.9	2.2	3.3
Germany	15.8	6.1	9.7	4.1	1.9	3.0	14.4	20.1
Poland	6.0	0.9	17.4	5.3	7.1	2.5	42.0	30.7
Russia	5.0	3.2	14.4	13.9	7.4	3.0	69.4	29.9
Other Europe ^d	8.4	3.0	11.3	8.3	5.8	4.3	26.0	32.8
China	1.9	2.5	32.0	24.0	5.9	5.3	74.8	59.7
Hong Kong	3.9	3.1	21.9	20.6	3.3	0.0	55.1	58.7
Taiwan	1.3	0.9	11.7	11.4	3.0	1.6	43.6	53.0
Japan	0.0	0.4	26.6	18.0	4.3	2.0	61.7	55.5
Korea	2.8	0.9	10.7	7.5	4.7	3.2	52.2	51.4
Laos	5.1	1.9	35.1	39.4	7.7	3.7	72.5	66.9
Philippines	4.8	1.1	8.4	12.0	4.9	2.9	32.7	29.8
Thailand	2.0	5.3	24.7	30.9	2.2	4.6	57.0	63.2
Vietnam	2.6	4.4	27.1	44.4	6.3	2.6	69.0	67.5
Other Indochina ^e	5.7	2.2	29.0	15.5	6.7	2.2	61.2	45.9
India	1.9	1.2	9.9	7.8	6.3	0.8	25.7	24.6
Pakistan	2.7	1.5	10.5	14.8	6.7	2.4	22.7	23.7
Iran	3.0	1.2	10.8	15.2	4.9	4.1	40.4	37.4
Israel/Palestine	2.0	2.2	17.9	14.5	4.3	1.4	30.7	27.3
Other Asian ^f	5.3	0.5	12.7	11.4	10.4	5.7	37.0	39.8
Africa	3.1	1.4	5.4	8.7	3.3	3.4	37.9	29.2
Aust., NZ, and other Oceania	4.6	2.2	14.6	14.3	3.6	3.0	37.1	14.6
Residual Other®	12.9	15.4	25.7	20.3	19.4	8.0	48.9	39.3

Notes: *Includes youth born in Belize/British Honduras, Costa Rica, Honduras, and Panama.

bIncludes youth born in Anguilla, Antigua-Barbuda, Bahamas, Barbados, British Virgin Islands, Cayman Islands, Dominica, Grenada, Montserrat, St. Kitts-Nevis, St. Lucia, St. Vincent, Trinidad & Tobago, Turks & Caicos, Aruba, Netherlands Antilles, Guadeloupe, Martinique, and West Indies NS.

Includes youth born in Argentina, Bolivia, Brazil, Chile, Paraguay, Suriname, Uruguay, Venezuela, and South America NS. Includes youth born in Denmark, Finland, Iceland, Norway, Sweden, Scotland, Wales, Ireland, Belgium, France, Netherlands, Switzerland, Albania, Greece, Macedonia, Italy, Portugal, Spain, Austria, Bulgaria, Romania, Hungary, Yugoslavia, Croatia, Bosnia, Byelorussia, Ukraine, Armenia, and Uzbekistan.

^eIncludes youth born in North Korea, South Korea, Cambodia, Indonesia, Malaysia, Singapore, and Indochina NS.

Includes youth born in Afghanistan, Bangladesh, Bhutan, Burma, Sri Lanka, Nepal, Iraq, Jordan, Kuwait, Lebanon, Saudi Arabia, Syria, Turkey, and Yemen Arab Republic.

gincludes youth born in Bermuda, Cape Verde, Greenland, and abroad, NS.

Source: 1990 and 2000 Decennial Census 5% Integrated Public Use Microdata Samples (IPUMS).

specific countries of origin. Consider the numerically most important case, youth of Mexican origin. Whether we examine outcomes among early childhood arrivals or recent arrivals, unambiguously school dropout rates and limited English-speaking rates declined among Mexican-born youth.

Standard shift-share analysis reveals that the change in the country of origin composition from 1990 to 2000 tended to increase the aggregate school dropout rate and limited English-speaking rate. The aggregate school outcome for any period is simply the weighted average of the outcomes from each country of origin:

$$\overline{S}_t = \sum_{i=1}^N POP_t^i \times S_t^i$$

where S_t^i is the rate for the ith country of origin and POP_t^i is the share of foreignborn youth who originate from that country. To evaluate the impact of change in the national origin composition of immigrant youth, shift-share analysis calculates the school outcome keeping the individual country rates constant and alters the weight put on that rate. Evaluating the 1990 rates using the 2000 population shares, the school dropout rate and the limited English-speaking rate are 13.4 percent and 39.6 percent, respectively. Since these are above the 1990 rates reported in Table 1, the change in the composition of the stock of foreign-born youth from 1990 to 2000 tended to increase the aggregate rates. The improvements in school outcomes over the decade were not due to compositional change in the countries of origin of foreign-born youth.

THE BACKGROUND OF FOREIGN-BORN YOUTH

The school outcomes of foreign-born youth are influenced by their family and demographic background (Kao, 1999; Hirschman, 2001). Examination of these characteristics reveals that there were some modest changes in family background that could have contributed to the decrease in foreign-born dropping out and limited English speaking.

Recent Census Bureau tabulations reveal a significant improvement in the parental education levels of foreign-born children residing with a parent (Johnson et al., 2005). The education levels of the head of the households in which foreign-born adolescents reside significantly increased (Table 3). In 1990 a majority of the household heads had not finished high school. By 2000 less than a majority had not finished high school. Research shows that parental education is a "very powerful predictor of teenagers staying in school" (Hirschman, 2001).

TABLE 3

Descriptive Statistics for Foreign-born 15- to 17-Year-Olds, 1990 and 2000 (in Percent)

Characteristic	1990	2000
Age = 15	30.2	30.1
Age = 16	32.8	33.3
Age = 17	36.9	36.6
	100.0	100.0
Male	52.6	53.5
Recent Arrival	54.1	58.5
Born in Mexico	28.9	37.5
No Parent in Household	17.4	18.8
One Parent in Household	22.2	20.7
Both Parents in Household	60.4	60.5
	100.0	100.0
Household Head no High School	53.0	48.5
Household Head Completed High School	15.2	17.3
Household Head Completed Some College	31.8	34.1
	100.0	100.0
In Poverty	30.7	29.7
Mean Number of Siblings	1.9	1.7
No Siblings	22.1	26.1
1 Sibling	23.9	27.8
2 Siblings	22.6	21.4
3 or More Siblings	31.4	24.8
	100.0	100.0
Resided Same House 5 Years Ago	31.6	33.7
Resided Different House in U.S.	36.4	35.4
Resided Different House Abroad	32.0	30.9
	100.0	100.0
Ever Married	3.1	4.4
Female with Baby	1.1	1.3
Sample Size	31,313	46,718

Note: All figures in percent, except the average number of siblings.

Source: 1990 and 2000 Decennial Census 5% Integrated Public Use Microdata Samples (IPUMS).

Child poverty reached a historical low in 1999 and 2000 (Federal Interagency Forum on Child and Family Statistics, 2003). Poverty among foreign-born children also fell during the 1990s (Fix and Passel, 2003). Poverty among foreign-born teens fell only modestly, declining from 30.7 percent in 1990 to 29.7 percent in 2000 (Table 3).

Changes in other characteristics of foreign-born teens did not move in a favorable direction. A larger proportion of teens were recently arrived in the U.S. Changes in family structure also moved in an adverse direction. For all U.S. children *in toto* (including native-born), the proportion living with two married parents fell from 1990 to 2000. This decline is not apparent among foreign-born 15- to 17-year-olds. However, the proportion of foreign-born 15- to 17-year-olds residing with no parents in the household did modestly increase from 17.4 percent to 18.8 percent. This is likely related to the increase

in recently arrived foreign-born youth over the decade, as recently arrived youth are much more likely to not be residing with any parents in the household than early childhood arrivals.

IS THE IMPROVEMENT IN FOREIGN-BORN YOUTH'S SCHOOL OUTCOMES SIMPLY DUE TO DEMOGRAPHIC CHANGE?

Using multivariate analysis we can determine how much of the improvement in immigrant schooling outcomes reflects changes in their background family and demographic characteristics. Table 4 reports the results of logistic regression analysis of dropping out of school. Table 5 reports the parallel results of analysis of limited English capability. Since not all recently arrived youth were enrolled in U.S. schools, separate models are estimated for early childhood arrivals and recent arrivals. The tables report the odds ratios. An odds ratio of 1.0 indicates that an immigrant youth with a particular characteristic is no more likely than to be out of school or have limited English-speaking skills than an immigrant with the omitted reference characteristic. For example, the odds ratio of 1.734 on age 16 in column (1) of Table 4 indicates that 16-year-old early childhood arrivals are 73 percent more likely to be out of school than 15-year-old early childhood arrivals (age 15 being the omitted reference category for age).

The key results of interest are in the first row, the odds ratio on the Census 2000 dummy variable (the omitted category being an observation from the 1990 Census). The odds ratios on the Census 2000 dummy variable indicate the nature of the change in the school outcome after controlling for other factors.

Columns (1) and (5) only control for the youth's age and gender and Census year, and replicate the results we observed in Table 1. In the baseline model of Table 4, there is a statistically significant drop in early childhood arrivals' propensity to be out of school from 1990 to 2000. Early arrivals in 2000 are 37 percent less likely to be out school than their counterparts in 1990. The school enrollment status of recent arrivals is unchanged from 1990 to 2000. For both groups of immigrant youth, there appears to be a modest decline in limited English-speaking skills in the raw data (Table 5).

As noted above, the countries of origin of adolescents shifted over the decade to countries that tend to have higher dropout rates and more limited English-speaking rates. This shift obscures some of the improvement in school outcomes among foreign-born teens from 1990 to 2000. Columns (2) and (6) of Tables 4

LOGISTIC RECRESSION OF DROPPING OUT OF SCHOOL, 15- TO 17-YEAR-OLD FOREIGN-BORN YOUTH, 1990 AND 2000

		Early Chil	Early Childhood Arrivals		l	Recen	Recent Arrivals	
	Control for		Control for	Model	Control for	Control for	Control for	Model
	Age and	and Place	and Place of Birth	with Full	Age and	and Place	and Place of Birth	with Full
Regressor	(1)		(3)	(4)	(5)	(9)	(7)	(8)
Year = 2000	0.630**	0.608**	0.571**	0.560**	0.982	0.805**	0.735**	0.737**
Age 15	Omitted	Omitted	Omitted	Omitted	Omitted	Omirted	Omitted	Omitted
Age 16	1.734**	1.782**	1.795**	1.601**	2.156**	2.168**	2.170**	1.786**
Age 17	2.743**	2.835**	2.869**	2.446**	3.581**	3.633**	3.631**	2.614**
Male	1.074	1.058	1.057	1.290**	1.512**	1.344**	1.324**	1.346**
No Parent in Household				2.921**				2.313**
Single Parent in Household				Omitted				Omitted
Both Parents in Household				0.649**				0.619**
Household Head no High School Completion				Omitted				Omitted
Household Head Completed High School				0.634**				0.536**
Household Head Completed Some College				0.442**				0.383**
Poverty				1.026				0.925*
No Siblings				0.965				1.362**
One Sibling				0.934				1.225**
Two Siblings				0.782**				0.948
Three or More Siblings				Omitted				Omitted
Resided Same House 5 Years Ago				Omitted				Omitted
Resided Different House in U.S.				1.239**				1.251**
Resided Different House Abroad				п.а.				2.266**
Ever Married				3.114**				2.376**
Female with Baby				2.966**				1.880**
Controls for Place of Birth	z	Y	Y	Y	Z	¥	Y	X
Controls for State of Residence	z	Z	Y	Y	Z	z	Y	Y
- 2 Log-likelihood	15,690	15,020	14,865	12,989	37,859	32,105	31,809	27,410
Chi-square	422	1,092	1,248	2,729	1,650	7,403	2,700	11,419
z	34,194	34,194	34,194	33,868	43,837	43,837	43,837	43,309

LOGISTIC REGRESSION OF LIMITED ENGLISH SPEAKING, 15- TO 17-YEAR-OLD FOREIGN-BORN YOUTH, 1990 AND 2000

		Early Childhood Arrivals	od Arrivals			Recent Arrivals	rrivals	1
			Control for				Control for	
	Control for	Control for Age. Gender.	Age, Gender,	Model	Control for	Control for	Age, Gender,	Model
	Age and	and Place of	Birth and	with Full	Age and	and Place of	Birth and	with Full
Retractor	Gender	Birth	Residence	Controls	Gender (s)	Birth	Residence	Controls
ingresor.	(x)	(1)	2	(E)	5	0		(0)
Year = 2000	0.944*	0.990	1.014	1.063*	0.904**	0.857**	0.876**	1.028
Age 15	Omitted	Omitted	Omitted	Omitted	Omitted	Omitted	Omitted	Omirted
Age 16	0.926*	0.935	0.929*	0.905**	1.184**	1.150**	1.151**	1.074*
Age 17	0.973	0.994	0.989	0.938	1.337**	1.284**	1.284**	1.114**
Male	1.174**	1.171**	1.169**	1.186**	1.247**	1.146**	1.145**	1.141**
No Parent in Household				2.036**				1.734**
Single Parent in Household				Omitted				Omitted
Both Parents in Household				0.838**				0.902**
Household Head No High School Completion				Omitted				Omitted
Household Head Completed High School				0.721**				0.698**
Household Head Completed Some College				0.571**				0.479**
Poverty				1.304**				1.211**
No Siblings				0.745**				0.768**
One Sibling				0.784**				0.789**
Two Siblings				0.822**				0.862**
Three or More Siblings				Omitted				Omitted
Resided Same House 5 Years Ago				Omitted				Omitted
Resided Different House in U.S.				0.934*				1.104**
Resided Different House Abroad				n.a.				3.652**
Ever Married				1.833**				1.219**
Female with Baby				*09/.0				1.021
Controls for Place of Birth	Z	Y	¥	¥	z	>	Y	Y
Controls for State of Residence	z	z	¥	¥	z	z	¥	¥
- 2 Log-likelihood	35,068	32,942	32,770	31,490	60,258	52,710	52,498	47,399
Chi-square	46	2,173	2,344	3,211	313	7,860	8,072	12,447
z	34,194	34,194	34,194	33,868	43,837	43,837	43,837	43,309

and 5 control for the foreign-born youth's place of birth. Accounting for the youth's country of origin does not explain the decline in the immigrant dropout rate from 1990 to 2000. Country of origin does play some role in explaining the improvement in English-speaking skills. Controlling for place of birth, there no longer appears to be a statistically significant improvement in the English skills of early childhood arrivals.

As noted in the introduction, foreign-born youth were not educated in the same states in 2000 compared to 1990. Columns (3) and (7) of the tables show the model including controls for state of residence. Geographic dispersion does not explain any of the decline in the likelihood of being out of school from 1990 to 2000.

Columns (4) and (8) present the results of the full model specification that takes account of all the changes in the background demographic and economic characteristics of foreign-born teens identified in the previous section. Accounting for the changes in the characteristics of foreign-born teens over the decade renders ambiguous results as to how immigrant children are faring in U.S. schools. I emphasize the results on early childhood arrivals since these youth indubitably are educated in U.S. schools. On the one hand, early childhood arrivals are clearly more likely to stay in school in 2000 in comparison to 1990. The results shown in column (4) indicate that early childhood arrivals are 44 percent less likely to be school dropouts in 2000 as compared to 1990. That is a very large decline in the dropout rate. Unfortunately, the results on English-speaking proficiency indicate that foreign-born teens are not less likely to have limited English-speaking skills. The English-language skills of U.S.-educated foreign-born teens do not appear to have improved over the decade above and beyond the contribution of compositional change.

The school outcomes of Mexican-born youth are of particular concern. Over a third of foreign-born teens are from Mexico and, as Hirschman (2001) remarks, other countries of origin individually only contribute a small share of foreign-born youth. Furthermore, youth from Mexico, on average, have the most elevated, or nearly most elevated, school dropout rates and limited English-speaking rates of foreign-born teens. In 2000, Mexican-born teens account for nearly three quarters of foreign-born teen school dropouts. Tables 6 and 7 report the results of a similar logistic regression analysis confined to Mexican-born teens. The results are quite similar to the results for the full sample of foreign-born youth. Mexican-born youth that arrived early in childhood are

⁶This is based on the 2000 Decennial Census. Thus, some of the "dropouts" (from Mexico and elsewhere) never were enrolled in U.S. schools, or never "dropped in."

LOGISTIC RECRESSION OF DROPPING OUT OF SCHOOL, 15- TO 17-YEAR-OLD MEXICAN-BORN YOUTH, 1990 AND 2000

	EL .	Early Childhood Arrivals			Recent Arrivals	
	Control for	Control for Age,	Model	Control for	Control for Age,	Model
	Age and	Gender, and Place	with Full	Age and	Gender, and Place	with Full
	Gender	of Residence	Controls	Gender	of Residence	Controls
Regressor	Ξ	(2)	(3)	(4)	(2)	9
Year = 2000	0.684"	0.622**	0.570**	0.832**	0.738**	0.758**
Age 15	Omitted	Omitted	Omitted	Omitted	Omitted	Omitted
Age 16	2.075**	2.112**	1.813**	2.454**	2.466**	1.952**
Age 17	3.209**	3.296**	2.652**	4.213**	4.219**	2.897**
Male	1.155*	1.149*	1.439**	1.487**	1.456**	1.439**
No Parent in Household			2.838**			2.353**
Single Parent in Household			Omitted			Omitted
Both Parents in Household			0.594**			0.548**
Household Head No High School Completion			Omitted			Omitted
Household Head Completed High School			0.759*			0.492**
Household Head Completed Some College			0.447**			0.407**
Poverty			1.020			0.938
No Siblings			1.036			1.482**
One Sibling			1.051			1.259**
Two Siblings			0.753**			1.004
Three or More Siblings			Omitted			Omitted
Resided Same House 5 Years Ago			Omitted			Omitted
Resided Different House in U.S.			1.338**			1.310**
Resided Different House Abroad			n.a.			2.810**
Ever Married			3.314**			2.309**
Female with Baby			2.569**			1.504**
Controls for State of Residence	z	Y	Y	Z	Y	Y
- 2 Log-likelihood	7,333	7,210	6,204	18,700	18,425	15,137
Chi-square	252	376	1,225	1,158	1,434	4,450
Z	12,162	12,162	12,039	15,542	15,542	15,368
N	1					

Notes: $^*p < 0.05$. $^{**}p < 0.01$.

Source: 1990 and 2000 Decennial Census 5% Integrated Public Use Microdata Samples (IPUMS).

		Early Childhood Arrivals	sic.		Recent Arrivals	
	Control for	Control for Age.		Control for	Control for Age.	
	Age and	Gender, and Place	Model with	Age and	Gender, and Place	Model with
	Gender	of Residence	Full Controls	Gender	of Residence	Full Controls
Regressor	(1)	(2)	(3)	(4)	(5)	(9)
Year = 2000	0.964	0.968	1.021	0.816**	0.826**	0.993
Age 15	Omitted	Omitted	Omitted	Omitted	Omitted	Omitted
Age 16	0.982	0.972	0.922	1.294**	1.289**	1.106*
Age 17	0.999	0.991	0.912	1.561**	1.547**	1.182**
Male	1.130**	1.129**	1.140**	1.266**	1.256**	1.146**
No Parent in Household			2.355**			1.816**
Single Parent in Household			Omitted			Omitted
Both Parents in Household			0.825**			0.834**
Household Head No High School Completion			Omitted			Omitted
Household Head Completed High School			0.772**			0.789**
Household Head Completed Some College			0.644**			0.599**
Poverty			1.246**			1.125**
No Siblings			0.699**			0.929
One Sibling			0.800**			*6280
Two Siblings			0.841**			0.893*
Three or More Siblings			Omitted			Omitted
Resided Same House 5 Years Ago			Omitted			Omitted
Resided Different House in U.S.			0.931			1.260**
Resided Different House Abroad			n.a.			3.853**
Ever Married			1.809**			1.106
Female with Baby			0.765			0.893
Controls for State of Residence	Z	Y	X	Z	Y	Y
– 2 Log-likelihood	14,683	14,604	14,066	18,413	18,293	16,435
Chi-square	10	68	459	179	299	1,981
Z	12,162	12,162	12,039	15,542	15,542	15,368

Notes: * P < 0.05. * P < 0.01. Source: 1990 and 2000 Decennial Census 5% Integrated Public Use Microdata Samples (IPUMS).

estimated to be 43 percent less likely to be out of school in 2000 compared to 1990 (column (3)), but their limited English-speaking skills seem unchanged over the decade.

ADJUSTED CHANGES IN SCHOOL DROPPING OUT AMONG FOREIGN-BORN AND NATIVE YOUTH

Foreign-born teens are much more likely to be in school in 2000 than 1990 and this does not simply reflect changes in their background characteristics. Table 1 suggests, however, that native-born youth are also much more likely to be in school in 2000 than 1990. There are reasons to surmise that the school outcomes of foreign-born teens would differ from those of native-born teens. Foreign-born teens do not attend the same schools as native-born teens. In 2000, 67 percent of foreign-born teens resided in the six large immigrant-receiving states. In comparison, 36 percent of native-born teens were educated in these states. Schools in the large immigrant-receiving states tend to have different characteristics than schools elsewhere in the United States. Furthermore, state compulsory schooling laws presumably impact the propensity to drop out of school. These laws vary across states.

Table 8 reports the salient results of a logistic regression analysis of the likelihood of not being enrolled in school that includes over 1 million nativeborn 15- to 17-year-olds from the 1990 and 2000 Census micro samples. Table 8 reports the results of full models that include all of the background covariates. Among the model specifications shown in column (1), the year effect is not allowed to vary between native-born and foreign-born teens. Ceteris paribus, the likelihood of a 15- to 17-year-old dropping out of school declined by 42 percent between 1990 and 2000. In column (2), the Census 2000 year effect is interacted with a dummy variable for foreign-born status. The interaction term is statistically significant. Foreign-born youth did not experience the same decline in the likelihood of dropping out of school as native-born youth over the decade. Foreign-born teens experienced a smaller improvement than natives. However, this is not an accurate reflection of foreign-born teens' experience in the U.S. school system. Many of these foreign-born teens were educated abroad and some of them were never enrolled in U.S. schools. Column (3) reports the results of estimating the same specification as reported in column (2) but omits the 43,309 recently arrived foreign-born 15- to 17year-olds from the sample. On the basis of foreign-born youth that have a high degree of exposure to U.S. schools, namely, early childhood arrivals, column (3) shows that the foreign-born interaction term is statistically insignificant.

TABLE 8
LOGISTIC REGRESSION OF DROPPING OUT OF SCHOOL, 15- TO 17-YEAR-OLD YOUTH, 1990 AND 2000

	Sample: Ivalives allu	Caringie: 1 valives and	Sample: INatives and Early
	All Immigrants	All Immigrants	Childhood Immigrant Arrivals
Regressor	(1)	(2)	(3)
Year ≈ 2000	0.575**	0.553**	0.557**
Year = 2000*Foreign-Born Status		1.369**	1.086
Age 15	Omitted	Omitted	Omitted
Age 16	1.731**	1.730**	1.719**
Age 17	2.824**	2.824**	2.842**
Male	1.208**	1.206**	1,179**
No Parent in Household	1,995**	1.992**	1.806**
Single Parent in Household	Omitted	Omitted	Omitted
Both Parents in Household	0.687**	0.686**	0.711**
Household Head No High School Completion	Omitted	Omitted	Omitted
Household Head Completed High School	0.536**	0.536**	0.534**
Household Head Completed Some College	0.358**	0.359**	0.358**
	1.257**	1.258**	1.336**
No Siblings	0.862**	0.857**	0.820**
One Sibling	0,815**	0.809**	0.759**
Two Siblings	0.787**	0.784**	0.751**
e Sib	Omitted	Omitted	Omitted
Resided Same House 5 Years Ago	Omitted	Omitted	Omitted
Resided Different House in U.S.	1,432**	1.432**	1,451**
Resided Different House Abroad	2.894**	2.889**	1.807**
Ever Married	3.032**	3.018**	3.236**
Female with Baby	3.239**	3.236**	3.316**
Controls for Place of Birth	Y	Y	λ
Controls for State of Residence	Y	Y	Y
-2 Log-likelihood	386,576	386,452	357,479
Chi-square	67,186	67,311	49,526
z	1.118.234	1 118 234	1.074.925

Notes: ${}^*p < 0.05$. ${}^{**}p < 0.01$.

Source: 1990 and 2000 Decennial Census 5% Integrated Public Use Microdata Samples (IPUMS).

So, foreign-born teens educated in U.S. schools had a very similar improvement in their enrollment outcome over the decade to that of native-born youth.

SUMMARY AND CONCLUSIONS

Foreign-born youth are a rising percentage of American youth. Few studies have carefully examined the trends in immigrant youth outcomes. The major activity of youth is schooling and this study has examined recent national trends in some basic schooling outcomes of foreign-born youth of high school age. Discussions of the education of foreign-born youth often emphasize the inordinately high dropout rates of foreign-born youth. On this criterion there are grounds for optimism. The foreign-born high school dropout rate declined during the 1980s (Vernez and Abrahamse, 1996). Progress continued during the 1990s. Dropout rates fell markedly for all U.S. teenagers during the 1990s and foreign-born teenagers were no exception.

Though immigrant teenagers are more likely to stay in school, changes in educational programs and practices may not have contributed to the improved school enrollment rates. Parental educational levels of foreign-born teens improved over the decade. Although it is not precisely clear why youth with better-educated parents are more likely to stay in school, they are, and foreign-born youth are no exception. The improvement in parental education levels would be expected to lower the foreign-born dropout rate. After controlling for this and other compositional changes in our foreign-born youth population, the evidence suggests that schools may have played a role in the decline in the foreign-born dropout rate. The likelihood of an early childhood arrival not being in school fell by 44 percent from 1990 to 2000, after adjusting for background factors influencing school attrition.

Much of the foreign-born school dropout problem is concentrated among recently arrived immigrant youth. In 2000, more than 80 percent of foreign-born school dropouts are recently arrived youth. Recently arrived youth are also more likely to be in school in 2000 than in 1990, but it is even more difficult to infer whether U.S. schools contributed to this improvement than in the case of early childhood arrivals. Recently arrived youth received some education abroad, and hence the observed improvements in school enrollment propensities might be due to improved schools abroad rather than U.S. schools.

Schooling is of value for the skills it produces. The English language proficiencies of foreign-born youth have marginally improved over the 1990s,

but this appears to be due entirely to compositional change. Furthermore, the fraction of foreign-born teens lacking English-speaking proficiency in high school continues to be high. Among early childhood arrivals, one out of five teens has limited English-speaking skills. These are youth that are almost entirely U.S. educated. This skill deficiency is not limited to youth from Latin America. Significant percentages of Asian-born youth lack English proficiency. This basic skill deficiency will, on average, diminish these youth's future educational and labor market prospects. Young adults with limited English-speaking abilities are less likely to enroll in postsecondary education and complete postsecondary degrees. They are also more likely to be employed in traditionally low-wage occupations (NCES, 2004). Recent evidence indicates that they are paid much less in adulthood, but much of that may be attributable to their lower educational attainment (Bleakley and Chin, 2003).

In sum, more immigrant teens seem to be staying in school. There is no evidence, however, that U.S. schools have increased their success in developing the English abilities of foreign-born children.

APPENDIX TABLE 1
UNWEIGHTED SAMPLE SIZES 15- TO 17-YEAR-OLDS, BY PLACE OF BIRTH

	•	nildhood		Recent Arrival	
	lmm	igrant	Recent	t Arrival	
Place of Birth	1990	2000	1990	2000	
Canada	267	304	172	316	
Mexico	4,758	7,404	4,809	10,733	
El Salvador	329	486	815	663	
Guatemala	164	355	287	530	
Nicaragua	95	318	397	191	
Other Central America ^a	127	286	264	467	
Cuba	357	78	196	315	
Dominican Republic	153	432	413	667	
Haiti	86	207	219	422	
Jamaica	217	350	334	463	
Puerto Rico	915	1,075	816	828	
Other Caribbean ^b	150	288	239	311	
Colombia	146	299	183	472	
Ecuador	61	143	76	249	
Guyana/British Guiana	103	117	140	126	
Peru	58	178	154	247	
Other South America ^c	197	373	248	710	
England	150	132	146	133	
Germany	91	183	144	346	
Poland	71	165	156	357	
Russia	189	218	232	453	
Other Europe ^d	652	953	588	1,582	
China	136	279	408	524	
Hong Kong	103	121	180	171	

APPENDIX TABLE 1 (CONTINUED) UNWEIGHTED SAMPLE SIZES 15- TO 17-YEAR-OLDS, BY PLACE OF BIRTH

		nildhood igrant	Recen	t Arrival
Place of Birth	1990	2000	1990	2000
Taiwan	164	173	330	239
Japan	48	86	190	153
Korea	440	693	489	541
Laos	538	209	308	59
Philippines	557	759	<i>77</i> 0	943
Thailand	45	564	57	154
Vietnam	1,268	532	892	931
Other Indochinae	345	427	370	305
India	330	383	309	622
Pakistan	66	148	64	230
Iran	137	195	157	111
Israel/Palestine	98	82	85	58
Other Asian ^f	264	267	278	453
Africa	173	286	211	818
Aust., NZ, and Other Oceania	69	85	87	116
Residual Other®	411	33	572	43

Notes: ^aIncludes youth born in Belize/British Honduras, Costa Rica, Honduras, and Panama.

gIncludes youth born in Bermuda, Cape Verde, Greenland, and abroad, NS.

Source: 1990 and 2000 Decennial Census 5% Integrated Public Use Microdata Samples (IPUMS).

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bInckides youth born in Anguilla, Antigua-Barbuda, Bahamas, Barbados, British Virgin Islands, Cayman Islands, Domínica, Grenada, Montserrat, St. Kitts-Nevis, St. Lucia, St. Vincent, Trinidad & Tobago, Turks & Caicos, Aruba, Netherlands Antilles, Guadeloupe, Martinique, and West Indies NS.

Includes youth born in Argentina, Bolivia, Brazil, Chile, Paraguay, Suriname, Uruguay, Venezuela, and South America NS.

^dIncludes youth born in Denmark, Finland, Iceland, Norway, Sweden, Scotland, Wales, Ireland, Belgium, France, Netherlands, Switzerland, Albania, Greece, Macedonia, Italy, Portugal, Spain, Austria, Bulgaria, Romania, Hungary, Yugoslavia, Croatia, Bosnia, Byelorussia, Ukraine, Armenia, and Uzbekistan.

Includes youth born in North Korea, South Korea, Cambodia, Indonesia, Malaysia, Singapore, and Indochina NS. Includes youth born in Afghanistan, Bangladesh, Bhutan, Burma, Sri Lanka, Nepal, Iraq, Jordan, Kuwait, Lebanon, Saudi Arabia, Syria, Turkey, and Yemen Arab Republic.

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