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From James P. Smitt and Bury Edmondston (eds.) The Immigration 8 Debate.)

#### Current Immigration Issues Historical Background to

Susan B. Carter and Richard Sutch (1998

the Nordic element; that immigration was a threat to "American" institutions, etc native population: that immigration, if it continued, would result in race suicide of articles were written to "prove" that immigration did not contribute to the popula-For this reason much of the literature on the subject is almost worthless. tion growth of this country because immigration depressed the fertility rate of the only to ascertain the pertinent facts and their reliability. Books and innumerable Immigration has had a long history in the United States. For the most part however, it was seldom treated dispassionately even when an attempt was made

Simon Kuznets and Ernest Rubin (1954:87)

#### INTRODUCTION

on the impacts of immigration on American life in the late nineteenth and early Impacts of Immigration, we present a broad overview of the scholarly literature As background for the work of the Panel on Demographic and Economic

abstract and mathematically intricate. scure statistical compendia, and theoretical analyses some of which are highly pre-World War I immigration (Ferrie, 1997; Hatton and Williamson, 1998). obthat witness the era of high immigration, two forthcoming economic histories of 1907, focused cliometric studies appearing in scholarly journals, autobiographies histories, the 42 volume report of the first Immigration Commission appointed in include nineteenth-century political broadsides, serious and musterfully written enormous literature on the subject ranging over every conceivable genre. These We emphasize at the outset that this is a formidable undertaking. There is an

to find. Many authors express their conclusions with a degree of certitude that is analysis offered. As Kuznets and Rubin suggested, dispassionate inquiry is hard have failed to take account of the evidence and arguments of their opponents. Or difficult to justify from the evidence they offer. Writers on opposite sides ofter gration policy arouses strong feelings and in some cases these have colored the The subject is also emotional and controversial. In the past, as today, immi

many aspects of the question a modern consensus of scholarly opinion cannot be

their preconceptions from the wide array of findings reported in the literature. plexity of the social science, it has become easy for partisans in the debate to derived from elaborate general equilibrium models are only as good as the asignore scholarly work altogether or to pick and choose studies compatible with sumed linkages across disparate sectors of the economy. Because of the commodels of supply and demand do not address very well. Indeed, even predictions The economic impact of immigration is a complex issue and one that simple

of mass immigration and immigration today. immigrant flows and in immigration's probable impacts between the earlier era a list of tentative conclusions. These identify rather dramatic differences in the Nevertheless, we believe that it is possible to survey the literature and extract

marizing our findings regarding four interrelated topics. with important and researchable topics. To encourage debate, we begin by sumcess of writing this chapter has convinced us, at least, that this entire area is ripe might be better read as provocation for further research. Nevertheless, the procover such an intractable subject with the guise of apparent order. Our "findings" Not everyone will agree with our distillation nor welcome our attempt to

#### FINDINGS

## The Magnitude and Character of Immigrant Flows

- are measured relative to the size of the resident population or to its growth rate Immigrant flows were larger in the past. This is true whether the flows
- males of young working ages. Today's flows include many more women and Immigration around the turn of the century was dominated by single
- was ever true in the past, today's immigrants come to stay. reuniting with family members in this country or to be refugees. Far more than return to their home country. Today's immigrants are far more likely to be sojourner workers who came to the United States to work for a few years and then Many of the immigrants during the period of high immigration were
- recession in the United States the largest annual flows in recent years occurred during periods of economic time are related to political-not economic-conditions. In particular, some of can depressions and was reduced during booms. Today the ebbs and flows over economy was depressed. Emigration, the return flow, was highest during Ameribooming, wages were rising, and unemployment was low. They ebbed when the tions in the United States. The numbers swelled when the U.S. economy was In the past, immigrant flows were highly responsive to economic condi-
- In the past, America selected people with above-average skills and back

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sending countries, but is less clear for some others. grounds from their countries of origin. Today this pattern still holds for some

than the resident American work force. bimodal, with one group displaying much higher and the other much lower skills of the American occupational distribution. There were significant numbers of foreign-born labor force. Today the occupational distribution of immigrants is native-born American workers both below and above the strata occupied by the In the past, immigrants took jobs that were concentrated near the middle

### Immigration and Economic Growth

key mechanisms emphasized in the literature are more rapidly than would have been the case in the absence of immigration. suggests that immigration caused the size of the American economy to grow focus of the scholarship on the previous episode of high immigration. This work Immigration's impact on American economic growth has been the major

- the high labor force participation rate of immigrants;
- immigration-induced capital flows from abroad, particularly from immi-
- grants' countries of origin; high immigrant saving rates; much of this saving was invested in residen-
- tial structures and in the capital necessary to operate self-owned businesses;
- the role of immigration in stimulating inventive activity;
- economies of scale; and the role of immigration in allowing the economy to take advantage of
- United States immigrants' importation of significant stocks of human capital into the

## Immigration and the American Income Distribution

immigration played in this development. Key conclusions in the literature are appears to have grown over the period of mass immigration, but it is not clear what role phasized in the scholarship on turn-of-the-century immigration. Income inequality Immigration's impact on American income distribution has been much less em-

- of resident workers overall in the nineteenth and early twentieth centuries. There is no evidence that immigrants permanently lowered the real wage
- attractive jobs. unemployment, took jobs from residents, or crowded resident workers into less There is no evidence that international immigrants increased the rate of
- nity placed a disproportionate burden on public charitable agencies or private philanthropies. There is no evidence that the early twentieth-century immigrant commu-
- The turn-of-the-century educational system does not appear to have been

an important arena for transferring resources between the foreign- and native born populations.

 There is some evidence that immigration may have reduced regional differences in income inequality.

On the other hand, there is no consensus regarding the impact of immigration on racial wage differentials. A number of scholars argue that the flow of European-born workers into the rapidly growing industrial cities of the North may have helped to delay the migration of blacks from the South to the North. If it delayed black migration, then immigration from abroad also would have delayed the convergence of black and white incomes.

# Immigration and the Character and Quality of American Life

- There is a broad consensus that immigration did not depress the fertility of the native-born population.
- The children of nineteenth- and early twentieth-century immigrants appear to have assimilated rather quickly into the mainstream of American life.

# THE MAGNITUDE AND CHARACTER OF IMMIGRANT FLOWS

Immigration to the United States has increased steadily in the post-World War II period. In 1995, the latest year for which data are available, the number of immigrants admitted into the United States was three times the annual flow between 1951 and 1960 and nearly double that of the 1970s. Figure 8-1 displays

l'Immigrants" are aliens who have been admitted into the United States for legal, permanent residence. In the post-World War II period, immigrants account for only a small fraction of the total number of aliens who arrive in the United States each year (Bureau of the Census, 1996;Table 7, p.11). In recent years the number of nonimmigrant aliens exceeds the number of immigrants by approximately twentyfold. Note that the data on nonimmigrants count arrivals rather than individuals so a person making multiple visits would be counted once for every visit. The overwhelming majority of these nonimmigrants are tourists, business travelers, and people in transit. Students are another important category of alien nonimmigrants. The number of alien nonimmigrants. Over the past ten years the number of temporary workers and trainees has grown very rapidly to become another important category of alien nonimmigrants. In 1995, the latest year for which data are available, the number of temporary workers admitted was almost as great as the number of students. Illegal border crossers, crewmen, and "insular travelets" are a third category of aliens who enter the country. They are not included in any of the totals reported here.

country. They are not included in any of the totals reported here.

<sup>2</sup>The number of immigrants admitted in 1993 was 880,000 exclusive of those admitted under the legalization adjustments permitted by the IRCA. The number of immigrants admitted during the years 1951-1960 was 2.5 million and between 1971 and 1980 it was 4.5 million (Bureau of the Census, 1996: Tables 5 and 6, p.10).

<sup>3</sup>These are the "official" numbers as published by the U.S. Immigration and Naturalization Service in its annual Statistical Yearbook (1997:Table 1, p. 27). Also see Bureau of the Census (1975/1997, series C89: 1996:Tables 5 and 6).



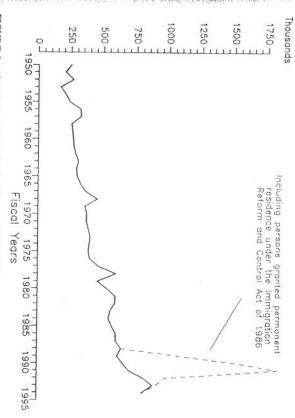


FIGURE 8-1 Immigrants to the United States, 1950-1995.

the number of legal immigrants arriving in the United States annually between 1950 and 1995.<sup>3</sup> The spike in the graph for the years 1989 through 1992, shown by the dashed line, includes persons granted permanent residence under the legalization program of the Immigration Reform and Control Act (IRCA) of 1986. Even excluding these "special" immigrants, the figure shows a pronounced upward trend in immigration over the last third of the century. Moreover, if the response to the IRCA can be interpreted as some measure of the "excess supply" of potential immigrants, then the pressure on American borders may have grown much faster than the numbers plotted in Figure 8-1 would suggest.

As a direct consequence of the recent increase in immigration, the fraction of the American population that is foreign born has risen dramatically. Figure 8-2 charts this change for the post-World War II period.<sup>4</sup> In the 1950s and 1960s, the small number of immigrants, together with the high fertility of the native population, meant that the fraction of the population that was foreign born actually declined. In 1950 the foreign born comprised 6.9 percent of the population; by 1970 their share had dropped to only 4.8 percent. The increasing numbers of immigrants after 1970 led to a reversal of this downward trend. By 1990 the foreign born had surpassed their 1950 share, accounting for 7.9 percent of the

<sup>&</sup>lt;sup>4</sup>Bureau of the Census (1975/1997, series A91; 1990:Table 253; 1993:Table 1).

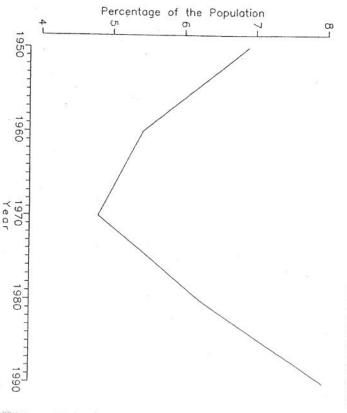


FIGURE 8-2 Foreign born as a percentage of the U.S. population, 1950-1990

population. A recent news release by the Census Bureau puts the 1996 share at 9

immigration in the 1980s and 1990s substantially altered the age structure of the new recruits at the lower end of the age spectrum. The resumption of heavier beginning in the 1920s and lasting through 1970 meant that there were far fewer World War II period, they had aged, but the long period of reduced immigration the century when they were in their late teens and early twenties. By the post-American. These people had migrated to the United States in the early decades of even more so in 1970, the foreign born tended to be older than the average born population by age at three post-World War II census dates.5 In 1950, and foreign-born population. Because the new immigrants were disproportionately tion has had a disproportionate impact on the population in the age range of 20 to Because immigrants tend to be young adults, the recent increase in immigra This is shown in Figure 8-3, which plots the fraction of the foreign-

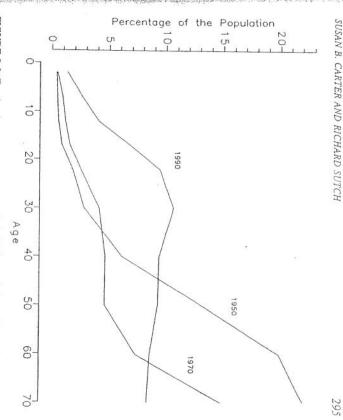


FIGURE 8-3 Foreign born as a percentage of the U.S. population, 1950, 1970, and 1990

over immigration centers on labor market and employment impacts (Borjas the economically active age groups. It is no wonder that the current policy debate young adults, their arrival increased the foreign-born fraction of the population in

## Current Flows in Historical Perspective

grants admitted into the United States over the period 1820-1995. is relatively modest from the perspective of the experience in the period 1880 ence of almost all of the native-born population of the United States today. Yet it context of the immediate post-World War II decades-and, indeed, in the experisame series as the one displayed in Figure 8-1; Figure 8-4 presents this series over 1914, the era of "mass immigration." Figure 8-4 displays the numbers of immi-The level of immigration in the 1980s and 1990s is certainly high in the This is the

SBureau of the Census (1975/1997, series A119-A134; 1984:Table 253; 1993:Table 1).

all passengers taken on board in a foreign port, with their sex, age, occupation, country of origin, and whether or not they intended to become inhabitants of the United States. These reports were col-March 2, 1819, that required the captain of each vessel arriving from abroad to deliver a manifest of These are the "official statistics" of immigration which are the result of the Passenger Act of

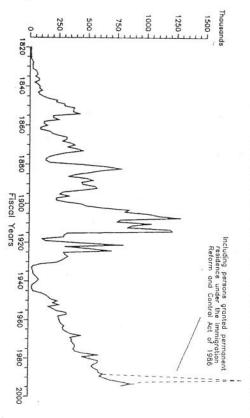


FIGURE 8-4 Immigrants to the United States, 1820-1995.

a longer period of time.<sup>6</sup> Although the spike of 1991, reflecting the response to the IRCA, still stands out, the chart reveals that the number of immigrants admitted through normal channels in the recent period is decidedly smaller than the number admitted in the first decade of the twentieth century.

Moreover, the United States was a much smaller country early in the century. To put the current immigration flows into proper perspective, we deflate the numbers of immigrants by the number of people resident in the United States at

lected and abstracted for the period 1820-1855 by Bromwell (1856/1969), for the period 1820-1874 by the Secretary of State, for the period 1867-1895 by the Treasury Department's Bureau of Statistics, and since 1892 by the Office or Bureau of Immigration which is now part of the U.S. Immigration and Naturalization Service (1997). The statistics for the period 1820-1910 were compiled by the U.S. Immigration Commission (1911:Volume 1, Table 1, p. 56). The defects of the official series are well known (Bureau of the Census, Historical Statistics of the United States, 1975/1997:97-98, series C89; Ierome, 1926:29-33; Kuznets and Rubin, 1954:55-64; Hutchinson, 1958; Thomas, 1954/1973:42-50; McClelland and Zeckhauser, 1983:32-35; and Schaefer, 1994:55-59). The chief biases are the following: (1) the figures apparently exclude first-class passengers for the early decades, (2) they may include some passengers who died en route, (3) before 1906 they exclude immigrants arriving by land from British North America (Canada) and Mexico, (4) immigrants arriving at Pacific ports before 1849 and at Confederate ports during the Civil War are excluded, and (5) the data measure gross rather than net immigration. Despite these imperfections the official series is thought to measure gross flows reasonably well.

<sup>7</sup>The data in Figure 8-5 have been extended back to 1790, and the data before the Civil War have been corrected for the undercounts noted in footnote 6. The figures for 1790-1799 are from Bromwell (1856/1969:13-14) and should be considered as nothing more than educated guesses by contemporaries Blodget (1806/1964) and Seybert (1818). The data for 1800-1849 are estimates made by



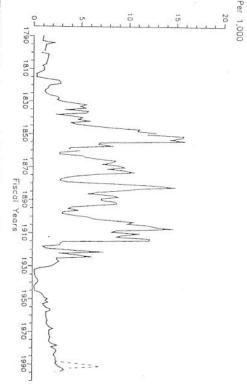


FIGURE 8-5 Immigrants to the United States, 1790-1990 (per thousand of resident population).

the time of the immigrants' arrival and display the result in Figure 8-5.7 Our calculations reveal that, in proportionate terms, the current inflow of immigrants is rather modest. If we look only at the "regular" immigrants—that is, exclusive of those admitted under the IRCA—then the current inflows approximate those in the very *slowest* years from the period between 1840 and the onset of World Warr I. Before the imposition of a literary test for admission in 1917 (overriding President Wilson's veto) and the passage of the Emergency Quota Act in May 1921, only the disruptions of World War I pushed the flow of immigrants relative to the native population to levels below the relatively low levels that we experience today.8

## Immigration as a Source of Population Change

As a consequence of the large and persistent immigrant flows in the 1845-1914 period, the foreign born came to comprise a rather large fraction of the total population. Figure 8-6 shows that, in the years between 1860 and 1920, the number of resident Americans born abroad ranged between 13 and 15 percent of the total population (Bureau of the Census, 1975/1997, series A91). The foreign-

McClelland and Zeckhauser (1983:Table A-24, p. 113). Those for 1850-1859 are estimates by Schaefer (1994:Table 3.1, p. 56). Thereafter the official statistics from the U.S. Immigration and Naturalization Service are used (1997:Table 1, p. 27). The resident population is taken from Bureau of the Census (1975/1997, series A7; 1996:Table 2, p. 8).

Goldin (1994) discusses the legislative and political history of immigration restriction.



HISTORICAL BACKGROUND TO CURRENT IMMIGRATION ISSUES

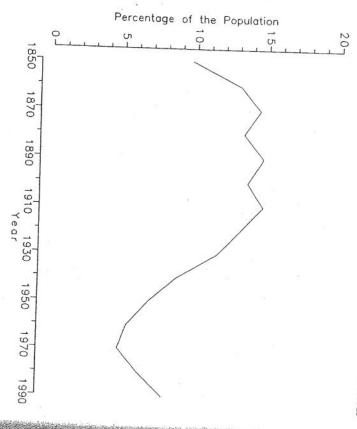


FIGURE 8-6 Foreign born as a percentage of the U.S. population, 1850-1990.

born fraction of the population in that period was approximately three times the level recorded in 1970 and over one and one-half times as high as it is today.

The historical record thus reveals that the numerical impact of immigration flows were once substantially larger than what we have now and were also larger than the levels we are likely to experience in the foreseeable future. Thus we are tempted to suggest that the economic and demographic consequences of immigration in the 1845-1914 period are likely to have been greater than the impact of immigration flows today.

Yet any comparative analysis should explicitly incorporate at least three ways in which the situation today is different from that of the era of mass immigration. First, the structure of the economy and labor market have changed. Some would say the structure is both more complex and less flexible and that labor markets are more segmented. Second, the government is a much larger entity both in terms of the resources it consumes and the fraction of national income it reallocates through tax and transfer mechanisms. Third, immigration is now regulated. We return to these points later in this chapter.

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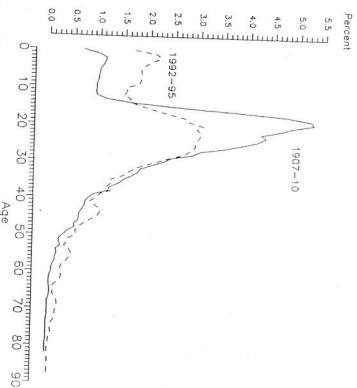


FIGURE 8-7 Age distribution of immigrants to the United States, 1907-1910 compared with 1992-1995.

### Age and Gender of Immigrants

The overwhelming proportion of immigrants are young adults. This is true today and it was so in the early years of the twentieth century as well. Figure 8-7 contrasts the age distribution of immigrants in 1907-1910 with that for immigrants in 1992-1995. Clearly, the propensity to immigrate is strongest from

<sup>&</sup>lt;sup>9</sup>The data for 1909-1910 are based on the Public Use Microdata Sample from the enumerator's manuscripts for the 1910 population census. We use the version of this sample that was prepared in a way that improves their comparability with census samples from other years. This file is known as the Integrated Public Use Microdata Sample or IPUMS (see Ruggles and Sobek, 1995). All immigrants (both males and females) who reported arriving in the United States in 1907 or after were included (n = 7658). This census was taken on April 15, 1910. The sample thus includes all 1907-1909 immigrants and slightly more than one-fourth of the 1910 arrivals. The 1992-1995 data are based on the March Current Population Surveys, or CPS, of the Bureau of Labor Statistics for 1994 and 1995. They include all immigrants who reported a permanent move to the United States during or after 1992. All migrants residing in the United States in 1994 or 1995 who immigrated in 1992-1994 and the first few months of 1995 are included (n = 3841).

ages 18 to 30 in both periods. One change that is visible is that modern immigrants are more likely to be accompanied with young children than was true in 1907-1910. This finding is understandable in terms of the reduced costs of migration but it also reflects a sharp change in the gender composition of immigrants. In the late nineteenth and early twentieth centuries men were far more pronounced among the young adults who constituted the bulk of all immigrants.

Figure 8-8 contrasts the data on gender composition of immigrants, from the 1907-1910 period with the most recent data available on gender composition. The proportion male was well over 70 percent in the age range 18-40 in those in their late twenties, the ratio is greater than three to one. The data from today, show a modest imbalance in favor of young women aged 12-16, undoubtedly produced by the earlier maturation of girls than boys. Yet the startling

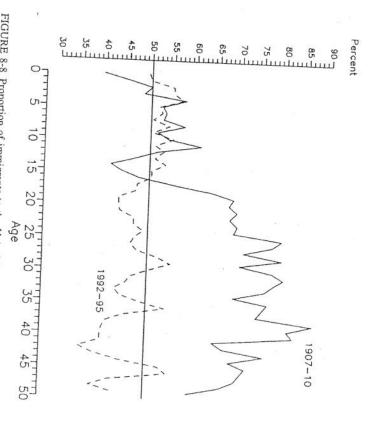


FIGURE 8-8 Proportion of immigrants to the United States who are male, 1907-1910 compared with 1992-1995.

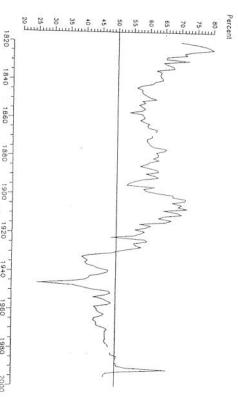


FIGURE 8-9 Proportion of immigrants to the United States who are male, 1810-1990

Fiscal Years

finding revealed by Figure 8-8 is the relative gender equality in immigration in the modern data. Today women actually predominate in the prime migration age cohorts.

The data on the gender of immigrants are available beginning in 1820. <sup>16</sup> The long time series of the proportion male is plotted in Figure 8-9. The predominance of males is clearly a phenomenon of the entire period of uncontrolled immigration but it disappears within a decade following the imposition of limitations in 1921. The spike in 1991 shows the impact of the IRCA, which facilitated the transition to immigrant status of certain illegal alien residents.

The age selectivity of migration and the size of the annual flows affect the age composition of the foreign-born population. Figure 8-10, which displays the fraction of the foreign-born population by age for selected census years beginning in 1870 (Bureau of the Census, 1975/1997, series A119-134), shows that persons resident in the United States at the turn of the century were in the prime working age groups. Although the overall fraction of the foreign-born population in the earlier period was about twice the percentage for 1990 (Figure 8-6), the fraction in the prime working ages was close to three times as great as today. It is no wonder that the first U.S. Immigration Commission (1911) concentrated its attention on the impact of immigration on the labor market and employment.

<sup>&</sup>lt;sup>10</sup>Census Bureau (1975/1997, series C138-C139); U.S. Immigration and Naturalization Service (1979:Table 10, p. 27; 1990:Table 11, p. 24; 1997:Table 12, p. 54). Official data on gender are not available for 1868, 1980, or 1981.



## HISTORICAL BACKGROUND TO CURRENT IMMIGRATION ISSUES

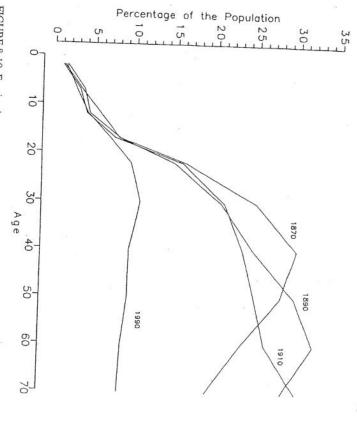


FIGURE 8-10 Foreign born as a percentage of the U.S. population, selected census years.

## Return Flows: Sojourners or Permanent Residents?

The literature on the mass migrations in the early part of this century emphasizes the role of sojourners who moved to the United States for a temporary period to earn income, accumulate assets, and then returned to their home countries (Baines, 1985, 1991; Wyman, 1993). These temporary migrants in the earlier era bear some similarities with the "guest workers" in today's Europe or the Braceros of the southwestern United States during the early postwar era. 11 Quite possibly, recent illegal immigrants to the United States should be thought of more like these early twentieth-century sojourners than as individuals intending to settle permanently—albeit illegally—in this country (Warren and Kraly, 1985).

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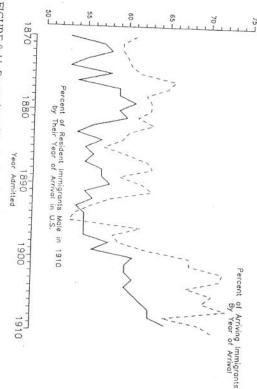


FIGURE 8-11 Proportion of the foreign born in 1910 who were male according to year of arrival compared with proportion of foreign born who were male at various arrival years.

The magnitude of the actual return flows are difficult to measure with precision, yet all of the evidence we have been able to assemble suggests that the return flows were quite large. For example, we think it is interesting to note that while the age composition of the immigrants had a strong impact on the age distribution of the subsequent foreign-born population, the proportion of male: among the foreign-born population recorded at the various censuses from 1880. 1910, although greater than 50 percent, was not heavily imbalanced. In Figure 8. 11 we make use of the 1910 IPUMS (Ruggles and Sobek, 1995) to calculate the United States. These numbers are compared with the proportion of immigrants back in time from 1910, the smaller the male share among those who arrived in the year and who remained in the United States as compared with the male share the year and who remained in the United States as compared with the male share among arrivals in that year. Clearly many more male then female immigrants returned to their homelands with just a brief stay in the United States.

Another clue regarding the relative importance of sojourners in the earlier immigrant flows is contained in the time series displayed in Figure 8-9. There,

<sup>&</sup>lt;sup>11</sup>The Braceros program was established during World War II to relieve wartime shortages in the agricultural labor markets of Southern California and Texas. These migrant workers were allowed to remain in the United States for up to 18 months. The program was extended after the war and was not ended until 1965 (Feliciano, 1996).

<sup>&</sup>lt;sup>12</sup>The immigration data are the same as displayed in Figure 8-9 except that calendar year flows are estimated by averaging the fiscal year data. That is, calendar year 1905 is an average of fiscal year 1905 (which ends June 30, 1905) and fiscal year 1906.

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FIGURE 8-13 Immigrant return rate (departures as a percent of arrivals).

Figure 8-13 shows that the return rate rose from less than 10 percent in 1870 and 1881 to over 70 percent just before World War I. This increasing propensity of the United States to attract sojourners makes sense given the declining cost of transatlantic passage due to the continual technological improvement of the steamship following the introduction of scheduled service on the North Atlantic in the 1860s (Baines, 1991:40-42).

## Immigration and the American Business Cycle

If we return to Figure 8-4, we find that it reveals another striking difference between the data for the recent and the distant past. In the recent past, immigration flows have increased in almost every year, showing little sensitivity to year-to-year changes in macroeconomic conditions. This is because immigration is today closely regulated and because more wish to migrate than the number of visa slots available. Most successful immigrants have been waiting for admission for several years. Today, year-to-year changes in the number of immigrants reflect policy changes, particularly regarding the admission of refugees and asylees, not changes in demand for admission. In the early period, by contrast, immigration was extremely sensitive to economic conditions in the United States. Between 1891 and 1895, for example, when the unemployment rate almost doubled from 4.5 to 8.5 percent, the number of immigrants fell by more than half, from 560,000 to 259,000. Even more dramatic is the almost 40 percent reduction in the number of immigrants in a single year, from 1.3 million 1907 to 783,00 in 1908 in

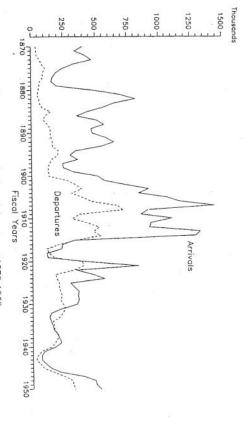


FIGURE 8-12 Alien passenger arrivals and departures 1870-1950.

the predominance of males among new immigrants declines during periods in which the economy was depressed—1857, 1874-1876, 1894-1895, 1920-1921—precisely the same periods when the number of immigrants declined. This cyclical pattern to the male share is consistent with the hypothesis that male immigrants were primarily sojourners whose migration decisions were quite sensitive to economic conditions in the United States.

Certainly it is plausible that a depressed economy would discourage sojourners. But in fact little is known about the phenomenon in the era of mass migration. Before 1908 the official statistics count only arrivals. They do not distinguish between permanent settlers and temporary guest workers, nor is there any comprehensive count of returning immigrants during this period. Kuznets and Rubin (1954:Table B-1, pp. 95-96) have estimated return migration for the period 1870-1908 based on official reports of passenger departures and several assumptions about the mix of American citizens and returning immigrants in the departure data, the mortality of foreign born in the United States, and the mortality of Americans when visiting abroad. The Kuznets and Rubin estimates are displayed in Figure 8-12 together with the official departure data from 1908 onward. We have also reproduced the official figures on arrivals in Figure 8-12. This is the same series as the one displayed in Figure 8-4. Figure 8-13 displays what we call the "immigrant return rate." It is the number of departures each year expressed as a percentage of arrivals.

<sup>&</sup>lt;sup>13</sup>These data from Kuznets and Rubin have been accepted by Hatton and Williamson (1998), who use them for calculating annual estimates of *net* migration.

and immigration in this period was only one to five months. between those same years (Bureau of the Census, 1975/1997, series C89; Weir, 1992:341). Jerome (1926:208) concluded that the lag between economic activity response to a sharp jump in the unemployment rate from 3.1 to 7.5 percent

preceded and may have contributed to the Great Depression. duction in immigration was responsible for the decline in demand for housing that ever, Thomas (1954/1973) and Hickman (1973) have both suggested that the rethat the cyclical nature of the immigration flows ended with the Quota Act. Howness cycle tends to ignore the role of immigration, perhaps for the obvious reason conclusion drew a strong rejoinder from Rorty. 15 More recent work on the busi-Jerome on balance thought immigration may have exacerbated depressions, but his tion was likely to have been a major factor in moderating the cycle (1913:225-228). Early writers on the business cycle such as Mitchell did not believe that immigranor" for the economy, slowing down the booms and cushioning the depressions. capital moving in a rhythm of self-reinforcing and inversely related long-swing economy" as an integrated economic unit with flows of immigrants, goods, and Kuznets cycles. 14 poverty, land scarcity, and military conscription (Easterlin, 1968:35-36; Cohn, pull forces of American opportunities dominated the push forces of European Abramovitz, 1961; Williamson, 1964; Easterlin, 1968). The consensus is that the grants has been examined extensively (Jerome, 1926; Thomas, 1954/1973; The relationship between the American business cycle and the flow of immi-Thomas (1954/1973) has developed an elegant model of the "Atlantic This raises the possibility that immigration acted as a "gover-

down during the war years and up during the immediate postwar period. relationship changes with the onset of the war. Both arrivals and departures are departures are down. In 1912, when arrivals are down, departures are up. The grants show a negative correlation. 16 In 1910 and 1913, when arrivals are up. the period preceding World War I, the inward and outward movements of immithe business downturns after 1873, in 1885, after 1893, and in 1908. Throughout unemployment. Figure 8-13 shows large increases in the rate of departure during tions in this country; the outflow of emigrants also responded to the rate of It was not just the inflow of immigrants that responded to economic condi-

<sup>14</sup>Fishlow (1965:200-203) has expressed doubts about the Thomas model

magnitude of the unemployment problem. during business downturns, the cyclical movement of immigration can only have helped reduce the evant to population growth's impact on the business cycle. Because immigration flows slowed correctly, we think, pointed out that the cause of the growth rate in the population should be irrel-Association, had the right to attach a dissenting footnote to Jerome's NBER Occasional Paper, the National Bureau of Economic Research (NBER) by appointment of the American Statistical ing times of depression (he was writing before the Great Depression). Rorty, who as a Director of 15 Jerome (1926:120-122) was impressed by the fact that net immigration was positive even dur-

smaller than that for arrivals 16However, a glance at Figure 8-12 reveals that the magnitude of changes in departures is much

> be playing a similar role in the American economy today. turn of the century, especially in light of the possibility that illegal migrants might understanding of the impact of the sojourner on the American economy at the biggest pre-World War I depression, 1892 to 1896, by only a quarter." Size, of large. Clearly, an important area for further research would be to improve our course, is in the eye of the beholder. Some would judge this effect as gratifyingly their finding that "free migration muted the rise in unemployment during the ating the business cycle was "surprisingly small." This assessment is based on worker counterfactual" and conclude that the impact of guest workers on modercompare the actual course of the business cycle of the 1890s with a "no-guest moderating the consequences of economic fluctuations in the United States. They reduce the drain on public coffers for support of the unemployed. Recently downward pressure on the wage rates earned by the resident population and supply from abroad might relieve bottlenecks, moderate wage increases, and Hatton and Williamson (1998) have revived the issue of the role of sojourners in thereby extend an expansion. In downturns an elastic labor supply can reduce ers might play in moderating the business cycle. In the upturns an elastic labor World War II period, has emphasized the potentially important role that sojourn-Kindleberger (1967), commenting on the European economy in the post

### The Question of Immigrant "Quality"

ity, and prove to be a disruptive social force. charged, be more likely to become a burden on the economy, exacerbate inequalthe American "melting pot." "Low-quality" immigrants would, it has often been nomic growth, vitalize and enrich the society, and more quickly assimilate into the least able?<sup>17</sup> Presumably, "high-quality" immigrants would accelerate ecothe "tired, . . . poor, your huddled masses," the unlucky, the least educated, and entrepreneurial, and the more adventurous from abroad, or whether it received question is whether the United States attracted the more-highly skilled, the more given considerable attention to the issue of immigrant "quality." Simply put, the Although it is probably an unfortunate term, the historical literature has

the matter with little generosity. ciation and former Superintendent of the U.S. Census, expressed his opinion on In 1891 Francis Walker, the first President of the American Economic Asso

[N]o one can surely be enough of an optimist to contemplate without dread the fast rising flood of immigration now setting in upon our shores. . . . [T]he

<sup>17</sup> Recall the poem by Emma Lazarus inscribed at the base of the Statute of Liberty I lift my lamp beside the golden door Send these, the homeless, tempest tossed to me: Your huddled masses yearning to breathe free, The wretched refuse of your teeming shore. Give me your tired, your poor,

immigration of the present time . . . is tending to bring to us no longer the more alert and enterprising members of their respective communities, but rather the unlucky, the thriftless, the worthless. . . . There is no reason why every stagnant the worst defeats in the struggle for existence, the lowest degradation of human nature, should not be completely drained off into the United States. So long as my difference of economic conditions remains in our favor, so long as the least that they might be better off here than there, if not in the workshop, then in the workhouse, these Huns, and Poles, and Bohemians, and Russian Jews, and quoted in Handlin, 1959;73-74).

Treatment of immigrant "quality" is intimately bound up with the pull versus push debate about the motives underlying immigration. If immigrants were pushed out of their home country by increasing immizeration, lack of jobs, or viduals from the lower tail of the skill and resourcefulness distributions of their country of origin. On the other hand, if immigrants were pulled to the United States by the attractiveness of American opportunities, they are more likely to come from the upper tail of the home country distribution. <sup>18</sup>

## Did Migration Select the Best from Europe:

Whether looked at from the point of view of the attributes of the arrivals or the push versus pull controversy, the consensus among economic historians is that, before World War I, America selected immigrants from the upper tail of the

skill distribution in their countries of origin (Easterlin, 1971; Dunlevy and Gemery, 1983). Mokyr (1983:247-252), for example, has studied the occupations of Irish immigrants before 1850 and concluded that immigration selected from the upper tail of the occupational distribution of Ireland, although the magnitude of the difference between the occupational mix of immigrants and that one of American opportunities suggest that these forces would select the higher skilled, better-situated members of European society. Even Thomas (1954/1973 56-62), one of the relatively few writers who sees a strong role for push factors in motivating immigration, agrees that migrants to the United States tended to come from the upper strata of their own societies.

# How Did Immigrants Compare with Native-Born Workers:

Whether these select workers from Europe's perspective appeared as high-skilled and advantaged competitors in the American labor market is more controversial. It could be true that immigrants selected from the upper tail of their home country's distribution of skills and other endowments nevertheless fell below the median of native-born American workers. It has also been asserted that the quality of immigrants fell as mass migration continued. A popular textbook in economic history states that "It is probably true that immigrants after 1880 were less skilled and educated than earlier immigrants."<sup>20</sup>

Historians have sometimes asserted or assumed that the bulk of immigrants were unskilled.<sup>21</sup> Handlin (1951/1973:58, 60) in the classic history of immigration to America, *The Uprooted*, described immigrants as "peasants," people who lacked training for merchandising and the skills to pursue a craft. This view also appears in some surveys of American history. The textbook by Nash et al. (1986:604), for example, reports that "most immigrants" after the Civil War "had

tail of the earnings distribution in sending countries; the reverse is true for countries with small as in the mean. Countries with a large variance in earnings tend to select immigrants from the upper model focuses on differences between countries in the variance of their earnings distributions as well Roy (1951). For an application to modern immigration patterns see Borjas (1987, 1994). The Roy immigration in the modern period makes heavy use of a different model of selectivity developed by a big fish even if they have to live in a small pond. The recent literature on the selectivity of country or perhaps their relative income position matters most to them. If so, they would prefer to be conclusion is not a certainty, either. Perhaps the highly skilled can earn more at home in a poor higher capital-labor ratio and a stronger growth-induced excess demand for skilled workers. This and the most education will have the most to gain by transferring their skills to a country with a to select the least able and least skilled. The pull model assumes that those with the highest ability long-distance migration. This emphasis moderates or even reverses the conclusion that push works remain. Those critical of the push view note that the very poor do not have the resources to afford compel the migration of the most wretched. Those more fortunately situated are thought to want to the lower tail of the income distribution below some intolerable poverty line. This is thought to view is based on a threshold model in which low incomes in the origin country depress incomes in forces. We note that the differential selectivity of push and pull forces is not a certainty. The push 18Historical studies of immigration debate the relative importance of these "push" and "pull"

<sup>19</sup>Others who have reached similar conclusions include Baines (1985:51-52), Erikson (1972, 1981) 1989, 1990), and Van Vugt (1988a, 1988b). Cohn (1992, 1995) has criticized this work for using biased samples that underestimated the numbers of laborers and farmers in the years before the Civi War. The issue is how to treat the "questionable" passenger lists. These are lists on which every passenger is recorded as a laborer (or farmer) usually by the use of ditto marks down the occupation column. Most researchers have excluded such lists from their samples. Cohn disagrees. When Cohen includes the questionable lists in his sample, he finds more laborers and farmers among immigrants from England and Scotland and more laborers and servants from Ireland than in the Cohn's work supports the select immigrant hypothesis.

<sup>20</sup>Walton and Rockoff (1994:402). This exact sentence has passed down to this edition of the textbook from Robertson (1973:387) through Walton and Robertson (1983:444). None of these texts offers a citation or evidence.

<sup>&</sup>lt;sup>2</sup>The proposition advanced in this literature is that the immigrants arrived without skills acquired in their home country. This is somewhat different from asserting that immigrants took unskilled jobs in this country regardless of their ability to perform skilled work.

few skills." Cliometric investigation suggests a quite different story. Available evidence implies that skill differences between native- and foreign-born workers throughout the period of mass immigration were small or nonexistent and that the relative quality of immigrants did not fall over time.

### Occupations of Arriving Immigrants

One source of evidence on the relative skills of newly arriving immigrants are the ship manifests giving the occupation of arriving passengers, recorded since the United States began the formal collection of immigration statistics in 1819. These data have been compiled by broad occupational grouping in *Historical Statistics of the United States* (Bureau of the Census, 1975/1997, series C120-137) and by more detailed occupations for 1819-1855 in Bromwell (1856/1969). Table 8-1 displays the occupational distribution of immigrants who reported an occupation at the time of their arrival into the United States according to broad occupational categories. Figures are presented as decadal averages for the 50-year period 1861-1910. The high proportion of immigrants describing themselves as unskilled laborers in the passenger lists (40-50 percent before 1900) seems to suggest that the skill content of immigration during this period was low. At the same time, farmers and agricultural workers are not particularly evident. They are certainly proportionately less evident in the immigrant flows than in the resident American labor force.

Table 8-2 compares Lebergott's (1964) estimates of the percentage of the resident labor force in the agricultural sector over the 50-year period beginning in 1861 with comparable data on the occupations of arriving immigrants presented

TABLE 8-1 Occupation Upon Arrival to the United States for Immigrants Reporting an Occupation, 1861-1910

							All other
		Agri-	Skilled	Unskilled	Domestic	Pro-	Осси-
Decade	Total	culture	Labor	Labor	Service	fessional	pations
1861-1870	0.001	17.6	24.0	42.4	7.2	0.8	8.0
1871-1880	100.0	18.2	23.1	41.9	7.7	1.4	7.7
1881-1890	100.0	14.0	20.4	50.2	4.9	:	9,4
1891-1900	100.0	11.4	20.1	47.0	5.5	0.9	15.1
1901-1910	100.0	24.3	20.2	34.8	5.1	1.5	14.1

NOTE: The category "All Other" consists primarily of managers, sales and clerical workers, and self-employed proprietors and merchants.

SOURCE: Ernest Rubin, "Immigration and the Economic Growth of the U.S.: 1790-1914." Conference on Income and Wealth. New York: National Bureau of Economic Research, 1957: 8. As reported in Elizabeth W. Gilboy and Edgar M. Hoover. "Population and Immigration." In Seymour E. Harris, ed., American Economic History. New York: McGraw-Hill, 1961, table 7: 269. An obvious error in the Domestic Service column for the last three decades has been corrected.

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TABLE 8-2 Agricultural Occupations as a Percentage of All Occupat U.S. Work Force and the Percentage of Immigrants Reporting an Agric Occupation Upon Arrival, 1860-1910

Decade	Occupations as a Percentage of United States Work Force	Percentage of Immigrant Reporting an Agricultur: Occupation Upon Arriva
Decade	States Work Force	Occupation Upon Arriva
1861-1870	52.7	17.6
1871-1880	51.8	18.2
1881-1890	46.4	14.0
1891-1900	41.3	11.4
1901-1910	35.2	24.3

NOTE: The figures on agricultural occupations as a percentage of the resident U.S. we averages of data for the two census years that span each decade. That is, the figure for averages the data for 1860 and 1870.

SOURCES: Occupations of the U.S. workforce: Stanley Lebergott, Manpower in Econon The American Record Since 1800. New York: McGraw-Hill, 1964, table A-1: 510. Occuparitying immigrants: Ernest Rubin. "Immigration and the Economic Growth of the 1 1914." Conference on Income and Wealth. New York: National Bureau of Economic 1957: 8. As reported in Elizabeth W. Gilboy and Edgar M. Hoover. "Population and Im In Seymour E. Harris, ed., American Economic History. New York: McGraw-Hill, 1961, 269]. An obvious error in the Domestic Service column for the last three decades has bee

from Table 8-1.<sup>22</sup> In no decade is the proportion of agricultural work immigrant flow over 25 percent; in no decade is the proportion of agworkers in the American labor force less than 35 percent. Because fa agricultural occupations are generally classified as unskilled, this evic plies that a large fraction of the American labor force was also unskill nineteenth century. The high proportion of laborer occupations among ing immigrants cannot support the suggestion that new immigrants skilled than the average resident worker.

Also, immigrants do not appear to have been particularly deficien as compared with the nonagricultural labor force in the United States. In makes the comparison for the first decade of the twentieth century, decade for which the required data are available. Taking the usual definition workers—craftsmen, foremen, and kindred workers—Table 8-3 skilled workers—craftsmen workers among the immigrants, 26.7 percentages.

<sup>22</sup>Because the populations of the primarily European origin countries were more heaveural than the American population and because by most accounts the agricultural lab Europe ("peasants") were the least skilled and least educated of European workers, they vide further support to the conclusion stated above that the immigrants tended to combiner strata of European society.

TABLE 8-3 Occupational Distribution of Nonagricultural Workers in the U.S. Work Force in 1910 and Occupations Reported by Immigrants Upon Their Arrival During the Decade 1900-1910

	Pro	Do	Un	Sk	00
Other	Professional	Domestic Service	Jnskilled	Skilled	Occupation Classification
23.0	6.8	14.1	39.3	16.8	U.S. Work Force
18.6	2.0	6.7	46.0	26.7	Immigrants

NOTE: For the U.S. labor force the occupational classification for skilled corresponds to "craftsmen, foremen and kindred workers," unskilled are "operative and kindred workers and laborers except farm and mine" domestic service include "private household workers and [other] service workers," and professional include "professional technical, and kindred workers."

SOIDCRES. 115 Workford David V Colonal Chinical, and kindred workers."

SOURCES: U.S. Workforce: David L. Kaplan and M. Claire Casey. Occupational Trends in the United States, 1900-1950. U.S. Bureau of the Census Working Paper No. 5. Washington: U.S. Government Printing Office, 1958. As reported in United States Bureau of the Census. Historical Statistics of the United States, Colonial Times to 1970, Bicentennial Edition. Two volumes. Washington: U.S. Government Printing Office, 1975. Electronic edition edited by Susan B. Carter, Scott S. Gartner, Michael R. Haines, Alan L. Olmstead, Richard Sutch, and Gavin Wright. (machine-readable data file]. New York: Cambridge University Press, 1997, Series D182-198. Occupations of arriving immigrants: Emest Rubin. "Immigration and the Economic Growth of the U.S.: 1790-1914." Conference on Income and Wealth. New York: National Bureau of Economic Research, 1957: 8. As reported in Elizabeth W. Gilboy and Edgar M. Hoover. "Population and Immigration." In Seymour E. Harris, ed., American Economic History: New York: McGraw-Hill, 1961, table 7: 269. An obvious error in Domestic Services has been corrected.

among the resident American labor force, 16.8 percent. Table 8-3 also reveals a relatively lower proportion of domestic servants among arriving immigrants.

(slightly) more skilled than the resident American labor force that the newly arriving immigrant nonagricultural work force in this decade was percent in either unskilled or domestic service occupations. We might even say tural labor force: 46.6 percent in relatively high-status occupations and 53.4 distribution is nearly exactly the split within the resident American nonagricul immigrants were (slightly) more likely to be unskilled than skilled. Yet this unskilled and domestic service occupations. This exercise reveals that 47.3 contrast the share of these relatively high-status occupations with the share of the tions while 52.7 percent were unskilled or in domestic service. In this sense percent of the nonagricultural immigrants reported relatively high-status occupa skilled, the professional, and "all other" occupations into a single category and the new arrivals. In an effort to help clarify the picture, we have grouped the the young ages of immigrants, professionals were also not well represented among complicates the interpretation of the data. Moreover, and not surprisingly given likely to report "unskilled" occupations than were American workers, which Yet as we have noted, at the same time, immigrants were relatively more

The data on the occupations of arriving immigrants, shown in Table 8-1

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reveal very little in the way of a trend over time. The high-status occupations accounted for a stable 40 percent of immigrants reporting nonagricultural occupations between 1860 and 1900 and then rose to 47 percent in the final decade before World War I. This evidence contradicts the frequently made claim—put forth without evidence—that the skills of immigrants were falling in this period.

Of course, there is good reason to be cautious about data on immigrant skills. The occupations were self-reported and recorded by ship captains who may have imposed prejudices of their own. Presumably the new arrivals reported the occupation they had followed in the old country, but perhaps young immigrants reported their father's occupation or perhaps some reported their intended occupation in America. In any case, there is strong evidence that many of the new arrivals took jobs other than those they reported on entry. Farming, in particular, was difficult to enter because of the cost of purchasing and equipping a farm and the evident fact that a year's worth of provisions or credit would be required before the first crops came in. Differences in technologies, the quality of the final product, and the organization of trades may have reduced the value of European-acquired skills (Eichengreen and Gemery, 1986). For this reason many researchers have examined, not the occupations immigrants reported on arrival, but the occupations actually taken up by immigrants in their new home.<sup>23</sup>

## Occupations of the Foreign Born in the United States

The federal census provides data on the occupations of the labor force by the nativity of the worker. Hill (1975) categorized these occupations as either "skilled," "semiskilled," or "unskilled," using the classification devised by Edwards (1943). The results of this exercise led Hill to conclude that "the native and foreign born were of relatively comparable economic status" during the period of mass immigration (Hill, 1975:59). Although the foreign born were slightly less likely to have been employed in skilled positions and slightly more likely to have been employed in unskilled positions, they were *much more* likely to have held semiskilled jobs. Their share of the semiskilled jobs is disproportionately large enough to bring them close to occupational parity with the native

<sup>&</sup>lt;sup>23</sup>Occupations actually taken up by immigrants will not adequately indicate their skills either if immigrants face discrimination in their entry into occupations. A number of scholars have argued that immigrants did in fact face occupation-based discrimination during the era of mass migration (Azuma, 1994; Barth, 1964; Brown and Philips, 1986; Cloud and Galenson, 1987; Daniels, 1962: Hannon, 1982a, 1982b; Higgs, 1978; LaCroix and Fishback, 1989; Liu, 1988; Murayama, 1984; and Saxton, 1971). But see Chiswick (1978a, 1978b, 1991a, 1991b, 1992, 1994) for an analysis that emphasizes the role of human capital in immigrant occupational attainment. The consensus in the literature is that within occupations immigrants were paid roughly equal pay for equal work (Blau, 1980; Ginger, 1954; Higgs, 1971a; McGouldrick and Tannen, 1977).

born despite their disadvantage at the upper and lower ends of the occupational spectrum.<sup>24</sup>

## WAS IMMIGRATION GOOD FOR GROWTH?

Mass immigration occurred during a period of very rapid econopic growth and America's ascendancy to international industrial leadership (Wright, 1990; Abramovitz, 1993). Most of the historians and economic historians who have studied immigration have tried to assess its relationship to these positive economic developments. To do so they relied, explicitly or implicitly, on a model of economic growth and of factor mobility. For those unfamiliar with this literature, it will be helpful to begin with some key definitions and a simple version of the model.

#### Defining Gravtl

There is little doubt that immigration caused the American population and the American labor force to grow more rapidly than it would have in its absence. Figure 8-14 shows the contribution of net immigration to American population growth. During the eriod of mass immigration preceding World War I, immigration accounted for somewhere between a third and a half of U.S. population growth. 26

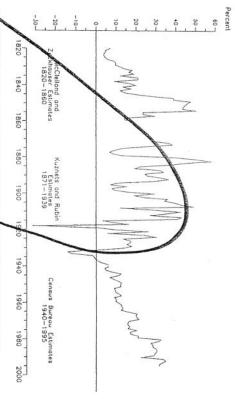
More workers me fit more output. Population, after all, is fundamental to production, not only occause people supply the labor required, but because the consumption of the population is the raison d'être of the production system. Thus the size of the economy, measured, say, by real gross domestic product (GDV), grew more rap dly than it would have without immigration. This is, we wink,

24The sem-skilled class is largely made up of factory operatives, a class of occupations that is classified as unskilled" in Table 8-1.

sidi studi natur 1896). large to might ha erature in the section of this chapter on population dynas of population dynamics lend little or no support to the W increase fell over the nineteenth and first third of the twentie Although it is true that both the fertility rate and the rate of iumerically cancel the inflow. This possibility was actually su induced a decline in the natural rate of increase of the native-boy would be a tautology except for the possibility that the flow of e net immigration was positive throughout the entire history of the c ker hypothesis. We summarize centuries, most demographic let population growth from gested by Walker (1891 population sufficiently amigrants somehow ntry before Work

U.S. population today. This is true despite the fact the fine numbers of arriving immigrants are smaller and the base population is larger today than it was in the decades immediately preceding work war I. The reason for the relatively large intribution of immigration to American population grown today is that the rate of natural increase is so low. Data on net immigration come from McCle and and Zechhauser (1983) for 1820-1860, Kuznets and Rubin (1954) for 1870-1940, and the Burean of the Census (1990, 193) for the recent period.

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GURE 8-14 Net immigration's contribution to national population growth.

what historian Maldwyn Allen Jones had in mind when he wrote in his classic book, American Immigration:

The realization of America's vast economic potential has... been due in significant measure to the efforts of impligrants. They supplied much of the labor and technical skill needed to tap the underdeveloped resources of a virgin continent. This was most obviously rule during the colonial period.... But immigrants were just as indispensable in the nineteenth century, when they contributed to the rapid settlement of the West and the transformation of the United States into a leading industrial/power (Jones, 1992/1960:309-310).

real wage?27 reduce labor productivity than the population. So, productivity for the econo standard of living-"intens of labor productivity, or the tivity, we can ask the say the employed labor force. number of workers. Thus economists usually mean by But this concept of growth he question as: Does immigration increase or reduce the ? If workers are paid a wage that reflects their producthe question becomes: Does immigration increase or If per capita output is to grow, GDP must grow faster if productivity is to grow, GDP must grow faster than my as a whole is measured by dividing GDP by the we growth"—is usually of greater interest. Labor growth of per capita output, or the growth in the he phrase "economic growth." Instead, the growth sometimes called "extensive growth," is not what

<sup>27</sup>There are other influences on the real wage than productivity. Of particular importance in this context would be discrimination (presumably against immigrants and in favor of native-born workers) and unionization (presumably weakened by heavy immigration).

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thought of the advances they saw with their own eyes as an emerging technology that was both capital and sale intensive. It was increasingly specialized and roundabout in its organization; equired increasing amounts of capital per worker to employ it; and therefore demanded larger-scale operations in its plants and in the aggregate to make the heavylar use of capital economical.

[Second, the] rise of cities, itself a re uirement of scale-intensive production, was another capital-intensive development. It required heavy investment in structures for housing, trade, finance, government, and schools and, especially in its early stages, for streets, water supplies, sevage disposal, and urban transport.

[Third, the] westward movement . . by attracting immigrants, enlarged the effective aggregate scale of the economy. . . (Abramovitz, 1993:225-226).

## Immigration and the Supply of Human Capital

Kuznets made an argument for a positive impact of immigration on the native born that suggests a very large effect coming from the impartation of human capital.

Considering the magnitude and dration of [the immigration flow], it is difficult to exaggerate its importance as a factor in the economic growth of the United States. Since immigration brought in a large labor force, the cost of whose rearing and training was borne alsowhere, it clearly represented an enormous capital investment that dwarfed any capital inflows of the more orthodox type (Kuznets, 1952:197).

capital stock by 1850, 18 p suggest that immigration skills. Freed of having to p young adulthood and end payment to-the economy cal labor and in the skills country. Yet that human cap of as the return to the "hum: and consuming almost immed young adults and entered the capital stock of these gifts produced at home. economy was able to inves returns from the human c another country. 1971). They begin by noting t Neal and Uselding elaborated on this point (Neal and Usel The Am Neal and Uselding calcula y for this importation of y compounding the the equivalent resourc wing him or her with ducation and other valuable that spent its resources night have contribu pital that had been tran rcent by 1880, and 42 percent by 1912.48 With this rican economy (and a n nd learned abilities of im tal—manifest both in its p n capital" they imported w ately on their arrival. Thei bor force, thus producing at most immigrants came t led as much as 9 percent of the lows at a rate of 6 percent. They the contribution to the U.S. s in physical or human capita human capital, the American on raising the individual to ferred from-and without w American) earned the higrants—was created in tential for purely physihen they moved to this income can be thought utput, earning wages the United States as ing, 1972; Uselding

force—the national capital-labor ratio was higher than it would have been otherwise. Thus, labor productivity was higher than it would have been without immigration.<sup>49</sup>

### Continue a

### Immigration and the Real Wage

certainly not a foregone conclusion demand for labor fully offsets the increased supply is an empirical question. and thus the demand for labor. 50 Whether the immigration-induced increased and then spend income, increased employment would increase aggregate demand immediately change the demand for labor. Because the new labor would earn market is quite different. An increase in the quantity of labor employed would specific type of labor (say bricklayers). The macroeconomic view of the labor analysis of labor markets makes sense only when applied to the market for a is meant to apply to all labor it is-of course-naive. The supply and demand model of the supply and demand for all labor, analogous to the familiar supply and demand for a single, homogeneous commodity such as wheat. If this analysis we deconstruct it today, would appear to rest on a static, partial equilibrium economist of the time in 1873 (cited in Lebergott, 1964:161). His reasoning, as labor the lower must certainly become its price," said Henry Carey a prominent inflow of immigrants depressed the real wage of labor. The "more the supply of contemporary observers, and especially spokesmen for labor, charged that the negative impact of immigration. Throughout the period of open immigration, tion and economic growth. This is the one that is most often used to suggest a We come to the final argument in our list of possible links between immigra-

Nonetheless, some distinguished economic historians have suggested without much qualification that the real wages of all Americans were depressed by immigration. They have also pointed to evidence that they claim buttresses this

occupations that immigrants reported on arrival rather than the occupations that they actually pursued in the United States. Gallman believes that some immigrants were forced to pursue occupations beneath their skill level because of discrimination and their lower level of literacy in English.

<sup>49</sup>Gallman (1977) is critical of this argument because he feels it implicitly assumes an extreme version of the Walker effect which Gallman rejects. To Gallman it appears that the saving that Neal and Uselding calculate would only be present if, in the absence of immigration, Americans chose to increase the native birth rate enough to fill the labor force gap left by the absent immigrants. In that case, America would have had to invest in the child rearing and education for this shadow cohort. We suggest that Gallman's line of attack introduces an unnecessary confusion into the analysis. Kuznets' original insight was to see that immigrants not only import labor, they import human capital as well. Thus, America gained a valuable productive resource and the origin countries lost energy time a young adult chose to immigrante.

50The effect of a new immigrant on aggregate demand may appear even before he or she takes a job in this country. The immigrant will have to spend and consume during the transition period between disembarkation and the receipt of the first paycheck.

<sup>&</sup>lt;sup>48</sup>Gallman (1977) suggests that the figures are 50 high for two reasons: first, because they are built on wage and work-year data, and, Swond, because Uselding's (1971) estimates are based on the

view. Lebergott looked at the increase in wages following the restriction of immigration:<sup>51</sup>

When the immigration flow was cut off in 1914 (first by German submarines, then by legislation) wages rose markedly, as shown in Table 26.3. In the 15 years after 1914, workers' incomes rose as much as they had over the prior half-century. No speedup in entrepreneurial ingenuity or productive energies of workers was occurring at that dramatic rate. Congress, by shutting off the flow of workers from Europe, had helped push up workers' wages.

Average Earnings of Nonfarm Workers (In 1914 Dollars)

1929	1914	1860
898	696	\$457

Source: Computed from Lebergott (1964:428,524).

There are, of course, many reasons why real wages might have risen during World War I and the Roaring Twenties. Lebergott's evidence is consistent with his thesis, but it is certainly not a rigorous test.<sup>52</sup>

Hatton and Williamson (1998:Chap. 8) have estimated that the immigration between 1890 and 1913 augmented the labor force in 1910 by 11.8 percent and reduced the real wage in 1913 by between 4.5 and 5.6 percent. Their calculation was made using a Phillips curve model of the aggregate labor market rather than a micro-economic supply and demand model. Nonetheless, their theoretical apparatus dictates their finding of a negative impact of immigration. The Phillips curve is an inverse relationship between the rate of wage inflation and the unemployment rate (Phillips, 1958). Hatton and Williamson argue that by "altering labor supply and unemployment in the short run, immigration should drive down the wage along some long run Phillips curve." We question the applicability of the Phillips curve in this context. During the 1900-1913 period, immigration was negatively correlated with unemployment and positively correlated with wage growth.<sup>53</sup>

Hatton and Williamson get around this seeming contradiction by combining the Phillips relationship with an aggregate demand for labor function derived from a CES production function (no economies of scale). By substitution they are able to eliminate the unemployment rate from their estimating equation. Their formulation reduces the Phillips curve to a positive relationship between the real wage and output per worker. They then use data from the period to estimate a positive relationship between real wages and aggregate labor productivity. They assert that immigration must have had a negative impact on real wages by claiming that immigration would lower productivity. They estimate the magnitude of this presumed negative impact of immigration on productivity by reference to labor's share of output in the long run (0.6, they say). For them, "the long run impact of labor force growth on output is simply the labor share times labor force growth."

Hatton and Williamson's calculation, then, is simply an empirical estimation of the capital-dilution argument discussed above. Because, by assumption, Hatton and Williamson deny any impact of immigration on the capital stock and abstract away from labor market dynamics over the business cycle, they exclude all of the dynamic effects that are hypothesized to generate a positive effect of immigration on real wages and the rate of economic growth. They have not ruled out these positive effects by an examination of the data, the historical record, nor the logic of the arguments.<sup>54</sup>

At this point it is worth pointing out two facts that are not in dispute. The first is that, whatever the effect of immigration, real wages of labor rose throughout the period between the Civil War and World War I. Figure 8-17 displays data on the real wage in manufacturing (Long, 1960; Rees, 1961). There is no striking slowdown of real wage growth during the period of most rapid immigration between 1900 and 1914. The second point is that the waves of immigrants ebbed and flowed in synchronization with the economy. When immigration rates were high, unemployment was low and real wages rose rapidly; when immigration was less, the economy was depressed. We are not, of course, suggesting that immigration caused an improvement in real wages. Rather, we side with Easterlin (1968:30-33), who interpreted these patterns as evidence that immigration responded to increases in the demand for labor in the United States and that the shifts in demand were larger than the shifts in supply.

There is no evidence that immigration slowed growth or lowered living standards of the resident population. There are good reasons to think that immigration increased the pace of economic growth and the relative welfare of the resident population in the 50 years following the end of the Civil War. Indeed, the impact of immigration on economic growth and on

<sup>51</sup>Lebergott (1984:34, who in turn cites Lebergott, 1964:163)

<sup>&</sup>lt;sup>52</sup>In looking at the rate of change of real wages before and after the reduction in immigration, Lebergott was echoing an older argument of Douglas (1930), who estimated a very low rate of increase of real wages (0.3 percent annually) in the period of greatest immigration, 1890 and 1914. Douglas's estimates for the period of mass immigration were especially slow compared to the rates of growth of real wages in the period immediately preceding and following this period. Douglas's real wages estimates have been superseded by those of Rees (1961), which show a reasonably rapid growth of wages (1.4 percent) during the era of high immigration.

The unemployment rate by any measure was rejatively low (4.7 to 4.9 percent) for the period 1900-1913 (Lebergott, 1964; Romer, 1986a; Weir, 1992). The earlier decade of the 1890s was a period of industrial depression and high unemployment, but during that decade immigration was greatly reduced. As the depression ended and unemployment rates dropped, immigration flows increased and ran at high levels throughout the booming period between 1900 and 1913.

<sup>&</sup>lt;sup>24</sup>Hatton and Williamson (1998) also use their computable general equilibrium model to assess the impact of immigration on wages. Their exercise also excludes the possibility of dynamic or short-run effects or the possibility of economies of scale.

thought of the advances they saw with their own eyes as an emerging technology that was both capital and scale intensive. It was increasingly specialized and roundabout in its organization; required increasing amounts of capital per worker to employ it; and therefore demanded larger-scale operations in its plants and in the aggregate to make the heavier use of capital economical.

[Second, the] rise of cities, itself a requirement of scale-intensive production, was another capital-intensive development. It required heavy investment in structures for housing, trade, finance, government, and schools and, especially in its early stages, for streets, water supplies, sewage disposal, and urban transport.

[Third, the] westward movement . . . by attracting immigrants, enlarged the effective aggregate scale of the economy. . . (Abramovitz, 1993:225-226).

## Immigration and the Supply of Human Capital

Kuznets made an argument for a positive impact of immigration on the native born that suggests a very large effect coming from the importation of human capital.

Considering the magnitude and duration of [the immigration flow], it is difficult to exaggerate its importance as a factor in the economic growth of the United States. Since immigration brought in a large labor force, the cost of whose rearing and training was borne elsewhere, it clearly represented an enormous capital investment that dwarfed any capital inflows of the more orthodox type (Kuznets, 1952:197).

capital stock by 1850, 18 percent by 1880, and 42 percent by 1912.48 With this suggest that immigration might have contributed as much as 9 percent of the capital stock of these gifts by compounding the flows at a rate of 6 percent. They produced at home. Neal and Uselding calculate the contribution to the U.S economy was able to invest the equivalent resources in physical or human capital skills. Freed of having to pay for this importation of human capital, the American young adulthood and endowing him or her with education and other valuable payment to-the economy that spent its resources on raising the individual to returns from the human capital that had been transferred from-and without cal labor and in the skills and learned abilities of immigrants-was created in country. Yet that human capital-manifest both in its potential for purely physiof as the return to the "human capital" they imported when they moved to this and consuming almost immediately on their arrival. Their income can be thought young adults and entered the labor force, thus producing output, earning wages another country. Neal and Uselding elaborated on this point (Neal and Uselding, 1972; Uselding 1971). They begin by noting that most immigrants came to the United States as The American economy (and a new American) earned the

larger capital stock—larger than the same immigrants' contribution to the labor force—the national capital-labor ratio was higher than it would have been otherwise. Thus, labor productivity was higher than it would have been without immigration.<sup>49</sup>

### Immigration and the Real Wage

certainly not a foregone conclusion. demand for labor fully offsets the increased supply is an empirical question. It is and thus the demand for labor.50 and then spend income, increased employment would increase aggregate demand immediately change the demand for labor. Because the new labor would earn market is quite different. An increase in the quantity of labor employed would specific type of labor (say bricklayers). The macroeconomic view of the labor analysis of labor markets makes sense only when applied to the market for a model of the supply and demand for all labor, analogous to the familiar supply is meant to apply to all labor it is—of course—naive. The supply and demand and demand for a single, homogeneous commodity such as wheat. If this analysis we deconstruct it today, would appear to rest on a static, partial equilibrium economist of the time in 1873 (cited in Lebergott, 1964:161). His reasoning, as labor the lower must certainly become its price," said Henry Carey a prominent inflow of immigrants depressed the real wage of labor. The "more the supply of contemporary observers, and especially spokesmen for labor, charged that the tion and economic growth. This is the one that is most often used to suggest a negative impact of immigration. Throughout the period of open immigration, We come to the final argument in our list of possible links between immigra-Whether the immigration-induced increased

Nonetheless, some distinguished economic historians have suggested without much qualification that the real wages of all Americans were depressed by immigration. They have also pointed to evidence that they claim buttresses this

occupations that immigrants reported on arrival rather than the occupations that they actually pursued in the United States. Gallman believes that some immigrants were forced to pursue occupations beneath their skill level because of discrimination and their lower level of literacy in English.

<sup>&</sup>lt;sup>48</sup>Gallman (1977) suggests that these figures are too high for two reasons: first, because they are built on wage and work-year data, and, second, because Uselding's (1971) estimates are based on the

<sup>&</sup>lt;sup>49</sup>Gallman (1977) is critical of this argument because he feels it implicitly assumes an extreme version of the Walker effect which Gallman rejects. To Gallman it appears that the saving that Neal and Uselding calculate would only be present if, in the absence of immigration, Americans chose to increase the native birth rate enough to fill the labor force gap left by the absent immigrants. In that case, America would have had to invest in the child rearing and education for this shadow cohort. We suggest that Gallman's line of attack introduces an unnecessary confusion into the analysis. Kuznets' original insight was to see that immigrants not only import labor, they import human capital as well. Thus, America gained a valuable productive resource and the origin countries lost one every time a young adult chose to immigrate.

<sup>50</sup> The effect of a new immigrant on aggregate demand may appear even before he or she takes a job in this country. The immigrant will have to spend and consume during the transition period between disembarkation and the receipt of the first paycheck.

When the immigration flow was cut off in 1914 (first by German submarines, then by legislation) wages rose markedly, as shown in Table 26.3. In the 15 years after 1914, workers' incomes rose as much as they had over the prior half-century. No speedup in entrepreneurial ingenuity or productive energies of workers was occurring at that dramatic rate. Congress, by shutting off the flow of workers from Europe, had helped push up workers' wages.

Average Earnings of Nonfarm Workers
(In 1914 Dollars)

1929	1914	1860
898	696	\$457

Source: Computed from Lebergott (1964:428,524)

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<sup>&</sup>lt;sup>34</sup>Hatton and Williamson (1998) also use their computable general equilibrium model to assess the impact of immigration on wages. Their exercise also excludes the possibility of dynamic or short-run effects or the possibility of economies of scale.

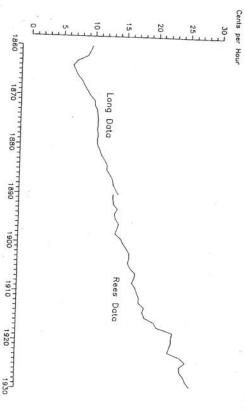


FIGURE 8-17 Real hourly wages in manufacturing, 1899 prices.

the economic welfare of the resident population appears to have been profoundly positive.

# IMMIGRATION AND THE AMERICAN INCOME DISTRIBUTION

Potential impacts of immigration on the American income distribution are at the heart of much of the debate over current immigration policy. In the words of Borjas:

The debate over immigration policy is not over whether the entire country is made better off by immigration—it is over how the economic pie is sliced up (Borjas, 1996:77).

The current debate has centered on both the labor market and the public sector as arenas in which resources may be redistributed away from poor Americans and toward the foreign born.

The facts are that income inequality in the United States has risen as immigration flows have surged. A number of scholars have argued that the two developments are linked (see Levy and Murnane, 1992).

In the scholarship on the economic impacts of the earlier mass immigration to the United States the focus is on growth. The potential impacts of immigration on the American income distribution have received much less attention, at least until very recently. Why is this and what do we know?

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## Trends in Income Inequality During the Earlier Era of Mass Immigration

Williamson and Lindert (1980) developed what has become the standard measure of long-term trends in American income inequality during the earlier era of mass immigration to the United States. It is the ratio of the real wage rates of urban skilled workers to those of urban unskilled workers. The larger the ratio, the greater the gap between rich and poor. We reproduce their series in Figure 8-18.

The inequality measure displayed in Figure 8-18 has a strong, positive correlation with the series on the annual number of immigrants displayed in Figure 8-4. There is a noticeable increase in American income inequality during the 15 years preceding World War I when the inflows of immigrants from abroad War I, when immigration was curtailed, and then rebounded after the war with the resurgence of immigration. During the 1920s, inequality was roughly stable virtual cessation of immigration.

Correlation does not imply causation, of course. Williamson and Lindert consider immigration as one of a number of possible explanations for the trends in inequality. Ultimately they choose to downplay its role. They write:

While the high tide of immigration of low-skilled workers from southern und eastern Europe may have accelerated labor quantity growth and decelerated

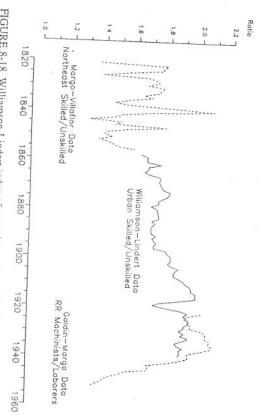


FIGURE 8-18 Williamson-Lindert index of wage inequality ratio of skilled to unskilled wages, urban workers.

labor "quality" growth ... these labor supply forces were apparently offset by acceleration in indigenous skills growth. The farmland frontier began to close up sharply in this period, but the model again assigns almost no importance to this change in explaining wage inequality trends. What we know about factor supply growth turns out to play a minor role in explaining the resurgence of wage rate inequality at the start of this century.

The model clearly points to changes in the pattern of technological progress as the explanation of the resurgence. . . . [T]his acceleration of productivity in the skill-intensive tertiary sector explains why teachers, mechanics, carpenters, and other skilled groups enjoyed rising wage advantages in the first decade of this century (Williamson and Lindert, 1980:236).

In his more recent work with Hatton, Williamson reconsiders this conclusion. Hatton and Williamson establish the plausibility of the view that immigration increased wage inequality not only in the United States, but in all countries experiencing rapid immigration. They do this by asserting that immigrants tended to be unskilled.

Since the migrants tended to be unskilled and increasingly so as the late nine-teenth century unfolded (much like the late twentieth century), they served to flood the immigrant country labor markets at the bottom, thus lowering the unskilled wage relative to skilled wages, white collar incomes and rents. Immigration implied rising inequality in rich countries (Hatton and Williamson, 1998; Chap. 11).

Hatton and Williamson test their proposition by examining trends in inequality across countries. They find that in countries where immigration flows were large relative to the size of the labor force, inequality rose more rapidly than otherwise; "when countries had to accommodate heavy immigration, inegalitarian trends were strong."

Goldin (1994b:12) also suggests that immigration increased American income inequality in the early years of this century. Citing Coombs's (1926) data on the trend in the real wages of unskilled laborers, she emphasizes their downward movement after 1907 and their rise during World War I.55 She speculates

that the influx of immigrant labor and then the wartime cutoff might have been the cause of this fall and subsequent rise.

We find both the Hatton and Williamson and the Goldin arguments unconvincing. Both simply point to a correlation between immigration and various measures of wage inequality, relying on assertions about immigrants' relative skills to make plausible a cause and effect relationship. Yet it looks to us as though immigrant skills belonged in about the *middle* of the American skill distribution. If this is correct, then we believe that there is no reason to expect that immigration would increase wage inequality. In our view this issue is currently unresolved and would benefit from further research.

The historical literature has focused on two additional dimensions of wage inequality. These are wage differentials based on race and on geography.

## Immigration and Racial Wage Differentials

1920s is an important and unanswered historical question overcome these oppressive forces and begin their "great migration" before the competition from European immigrants in this era would have induced blacks to explored the role of extra-legal coercion. Whether the hypothetical absence of explanations in the literature, but other than Thomas' speculations, no one emof late nineteenth-century American economic history. There is no shortage of left most blacks ill-prepared to compete for urban jobs. Tolnay and Beck (1995) the South. Margo (1990) stressed the inadequate Southern schooling system that Wright (1986) discussed the role of the peculiar and controlling labor markets of War agriculture in which blacks were "locked in" by a form of "debt peonage." the institutional structure of the crop-lien, tenant-farming system of post-Civil phasizes the role of immigration. Ransom and Sutch (1975, 1977) emphasized dynamic and prosperous North in the 50 years between Emancipation and World ity, stagnant, and oppressive South were lower than they would have been in the in the agricultural South. There is no doubt that their wages in the low-productivthe early period, Thomas (1954/1973) suggested that the mass immigration from gration on the geographic mobility and relative wages of black Americans. For War I. Their failure to migrate in any significant numbers is one of the mysteries Europe in the decades before World War I kept African Americans "bottled up" There is another large literature that focuses on the impact of foreign immi-

## Immigration and Regional Wage Differentials

Regional wage differentials have been a persistent feature of American labor markets, at least since 1840 (Easterlin, 1960; Williamson, 1964; Rosenbloom.

<sup>55</sup>We have serious reservations about Coombs' data, which are a pastiche of observations drawn from a variety of sources. Coombs used one primary source for the period between 1890 and 1907 and another for the period 1908-1914. The decline in real wages cited by Goldin is largely a matter of a change at the break in sources. There was a sharp recession in 1908 (unemployment jumped from 3.1 to 7.5 percent), and there was an across the board decline in wages as a response. There was also a large decline in gross immigration (from 1.3 to 0.8 million between FY 1907 and 1908) and an increase in departures (Bureau of the Census, 1975/1997, C89, and Weir, 1992:341). Net immigration fell from 767,000 to only 210,000 (Kuznets and Rubin, 1954:95). In fact, 1907 was the peak year for immigration. Moreover, the adjustment to hourly wages for the second segment of Coombs is made by a different procedure than that used for the first segment (David and Solar, 1977:63-64). Data for the 1920s are from yet a third source, the National Industrial Conference Board. Those data were collected by mail questionnaires and left the definition of "unskilled" production workers to the responding firms. The National Industrial Conference Board (NICB) data.

begin in 1921 but there is also a retrospectively reported prewar wage collected in 1922. It is these retrospectively reported data that are used by Coombs to link the NICB data to the middle segment of the series. It is difficult to know how to compare them with the prewar data.

1996). One question is whether immigration acted to exacerbate or to ameliorate

developed ethnic support networks and they flock to them without reference to attracted to cities that already have thriving immigrant communities with welltion of the foreign born and residents alike. Another view is that immigrants are their relative economic prosperity. destinations are regions of high opportunity and high wages that attract in-migrain the literature regarding the forces that create these magnets. One is that these of mass immigration preceding World War I. There are two principal hypotheses net" destinations. 56 This is true today and it was also true during the earlier wave Immigrants tend to concentrate geographically in a small number of "mag-

linguistic assimilation, and retard the economic advancement of the immigrants born workers in these areas, exacerbate income inequality, slow cultural and attracted them. Their geographic concentration would likely harm the nativesoon overcrowd local labor markets and the ethnic neighborhoods that originally wage markets. would also tend to reduce wage inequality by expanding the labor supply in highnomic growth by removing allocative inefficiencies and relieving bottlenecks. It If the first view is correct, then immigration would serve to accelerate eco-The second view, by contrast, suggests that immigrants would

equalization of wages across regions would have proceeded more slowly). felt by the native-born residents of boom cities (though the movement toward moved to fill these positions and the negative wage impact would have still been shortages. Had there been no immigration, native-born workers would have grants helped to equalize intercity wage rate differences by alleviating labor been higher still. Because of their propensity to move to high-wage cities, immiwords, without the influx of immigrants, wages in high-wage cities would have percent" relative to cities with fewer foreign born (Goldin, 1994a:250). In other in the population share that was foreign born depressed wages by about 1 to 1.5 grants caused wage rates to rise more slowly than they might have, had the out labor markets with high wages." Goldin also finds that the arrival of immi-We are persuaded by Goldin's (1994a:247) conjecture that "immigrants sought In other words, cities with a large fraction of immigrants had the highest wages. fraction of a city's population that was foreign born and the city's average wage. In the cross section, Goldin finds a strong positive relationship between the immigration on intercity differences in wage rates during the turn of the century. eses was conducted by Goldin (1994a), who was interested in the impacts of immigrants not come. More precisely, "in general, a 1-percentage-point increase One recent study that bears on the relative importance of these two hypoth-

blame the immigrants for the adjustment back to equilibrium is simple scapegoa-

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ity was reduced by immigration. The reason for this is that immigrants tended to locate in high-wage regions. The key point that emerges from this literature is that regional wage inequal-

## Income Redistribution Through Social Spending

Borjas, 1994:1704-1708).58 that immigrants in modern America do not "pay their way" (summarized in ately high income and (presumably) tax payments, Borjas and Trejo conclude disproportionately high welfare participation is not offset by disproportionhas been growing steadily since 1970. Because they believe that immigrants and their trend over time. They noted that in 1990 immigrants were more programs and that the gap between immigrant and native welfare participation likely than the native born to participate in cash-benefit government welfare veloped one influential estimate of the possible magnitude of such transfers through government social spending programs. Borjas and Trejo (1991) detion that resources may be transferred from the native to the foreign born One source of the modern opposition to immigration stems from a percep-

assemble some evidence on immigrants' contributions to the support of these in our own era: poverty relief, old-age relief, and educational services. We also born. We focus on three services that account for the bulk of public expenditures redistributive schemes and their proportionate impacts on the native and foreign government in income redistribution. For this reason we take a broad view of In this sense, it would be impossible to identify a quantitatively important role for educational services, old-age security, disaster relief, and income redistribution. ties and self-help organizations took the lead in the provision of social insurance, Of course, government programs were tiny in this era. In that era, private chariforeign born through social spending programs in the early part of this century Here we examine the evidence on possible redistribution from natives to the

<sup>&</sup>lt;sup>56</sup>For analyses of immigrant settlement patterns in the period prior to World War I, see Lee (1957); Galloway and Vedder (1971, 1972); Galloway et al. (1974); Dunlevy and Gemery (1977a, 1977b, 1978); Dunlevy (1980, 1983); and Dunlevy and Saba (1992).

<sup>57</sup>Goldin's estimates were made to help understand the reasons for a political sentiment to restrict

tainly net contributors to the Social Security system use educational services, especially the more expensive higher education services. They are certionately single, young adults, and labor force participants, they are less likely than the native born to young adults to families through the educational system. Because recent immigrants are disproporredistribution from income earners to retirees through the Social Security system and from single sion of social transfers to means-tested entitlement programs such as food stamps, Medicaid immigration. In a sense it was the "scapegoat factor" that she was attempting to measure.

SThese conclusions are highly controversial. For example, Borjas and Trejo limit their discuslow-income housing assistance, and Head Start. In doing so, they ignore the substantial social

simply assert that "immigrants do not receive a disproportionately high share of income; they also do In their discussion of immigrants' contributions to the governments' income, Borjas and Trejo

### Poverty Relief in the Gilded Age

Before the New Deal legislation of the 1930s, publicly funded welfare programs were small in scale, limited in geographic scope, and were under local control. Throughout the century preceding the Great Depression, there was stiff public opposition to government-sponsored poor relief (Almy, 1899-1900; Mohl, 1983; Hannon, 1984, 1985; Ziliak, 1996). In the view of many contemporary observers, the root of the problem facing public poverty relief was the massive increase in immigration. "The increase of pauperism amongst us" is due to "the increase of our foreign population," according to a writer quoted by Katz (1986:17). In the view of the publicly funded Philadelphia Board of Guardians of the Poor in 1827:

One of the greatest burthens that falls upon this corporation, is the maintenance of the host of worthless foreigners, disgorged upon our shores (cited in Katz, 1986:17).

In 1900, Joseph Lee, a national leader of the movement for urban playgrounds suggested that

(T)he problems with which American philanthropy has at present to deal have been largely imported along with the greatly increased volume of immigration that has come during the last fifty or sixty years (quoted in Patterson, 1981:22).

We know of no scholarship that has systematically explored the relative propensity of the foreign born to seek public charity relief in this era. Some statistical information on this matter, however, was collected by the first Immigration Commission, appointed by Congress in 1907 to make a "full inquiry" into "all aspects" of immigration. The Commission was eager to explore these controversial allegations, especially because it noted that, in earlier times,

It is recorded that in some cases a considerable part of the immigrants arriving on a ship would be so destitute of means of support that it was necessary to transport them immediately to almshouses, and the earlier poorhouse records show that there were constantly being cared for large numbers of newly arrived foreign-born (U.S. Immigration Commission, 1911:Volume I, p.35).

To uncover the extent of the problem at the turn of the century, the Commission conducted its own investigation of "Immigrants as Charity Seekers." It went to "organized city (i.e., public) charity societies" in 43 different cities and collected evidence on "cases," that is, individuals or families requesting assistance at some time during the six-month period, December 1908 through May 1909.

not pay a disproportionately high share of taxes" (summarized in Borjas, 1994:1705). This statement is probably true if the reference group is the employed only. But because immigrants are so much more likely than the native born to be concentrated in the wage-earning age groups and to be both labor force participants and income tax payers, it is not clear that immigrants pay a disproportionately low share of taxes compared with the population as a whole. The population as a whole forms the denominator in calculations about relative welfare use, thus the population as a whole is the appropriate reference for evaluating the fiscal contributions of immigrants.

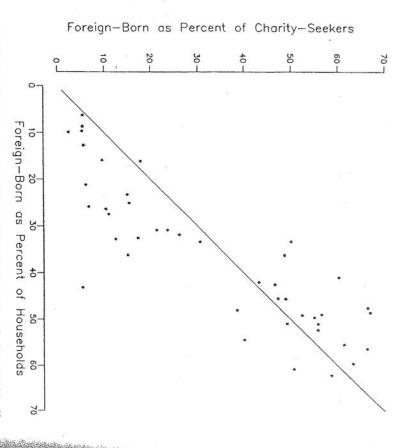
The Commission itself was unable to calculate the relative propensity of the foreign born to seek charity because it did not at the same time survey the population, but instead anticipated the results of the 1910 federal census of population. Nonetheless, the notable absence of recent immigrants from the public charity rolls was striking enough that the Commission concluded that at least this group of immigrants could not have been a burden.

The number of those admitted [into the country] who receive assistance from organized charity in cities is relatively small. In the commission's investigation, which covered the activities of the associated charities in 43 cities, including practically all the larger immigrant centers except New York, it was found that a small percentage of the cases represented immigrants who had been in the United States three years or under, while nearly half of all the foreign-born cases were those who had been in the United States twenty years or more. This investigation was conducted during the winter of 1908-9 before industrial activities had been fully resumed following the financial depression of 1907-8, and this inquiry showed that the recent immigrants, even in cities in times of relative industrial inactivity, did not seek charitable assistance in any considerable numbers. Undoubtedly conditions would have been otherwise had it not been for the large outward movement of recent immigrants following the depression, but however that may be, it is certain that those who remained were for the most part self-supporting (U.S. Immigration Commission, 1911:Volume I, p. 36).

turn-of-the-century immigrants were not disproportionately heavy users of public grants as well as all charity seekers were city dwellers, these results suggest that weighted by city size is 0.92. Because the overwhelming proportion of all immito foreign-born household heads across cities is 0.84, whereas the average ratio lic charity. The unweighted average of the ratio of foreign-born charity seekers indicating that in most cities, the foreign born disproportionately eschewed pubwho were foreign born. The majority of points fall below the 45-degree line, of household heads who were foreign born, calculated from the IPUMS from the 1910 Census. Along the vertical axis we show the proportion of charity "cases" Immigration Commission study. Along the horizontal axis we map the proportion scatter diagram, each point plotted represents one of the 43 cities included in the results are presented in the scatter diagram displayed in Figure 8-19. In the explore the relative charity-seeking propensities of immigrants overall. to an electronic version of the 1910 population census, and thus we were able to sion avoided any judgment on the issue. Unlike the Commission, we have access given the absence of nativity-specific population figures, and thus the Commis-The charity seeking of all immigrants was more difficult to characterize agencies?

<sup>&</sup>lt;sup>59</sup>Although the ratio of foreign-born charity seekers to foreign-born household heads averages less than one for the sample of cities as a whole, the data in Figure 8-19 show a disproportinately large share of foreign-born charity seekers in cities with large foreign-born population shares. We

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cities, 1909-1910. FIGURE 8-19 Foreign born as a percentage of charity seekers and of households, 43

of immigrants' own efforts to help themselves and one another. These immigrant self-help organizations were noted at the time. A Massachusetts commission relative absence of immigrants from the rolls of city charities was the importance work was unavailable, they returned to their native lands. Another reason for the A large fraction of immigrants came as sojourners to this country to work; when commented: One explanation for this pattern is the one the Commission itself suggested

there are large groups of immigrants, are a factor in helping the immigrant ent nationalities, and which flourish in some form in every community where The societies which are organized and maintained by the members of the differ-

are tempted to speculate that local government in such cities may have been unusually responsive to the needs of these communities. For the moment, however, this remains an area for further research.

of Immigration, 1914:202, quoted in Handlin, 1959:84) these purposes has an influence upon the members (Massachusetts Commission with this some other objects. societies is insurance against sickness and death, but most of them combine through the trials of immigration and the difficulties of adjustment to new con-The chief reason among all nationalities for the formation of these They may lack the means to carry this out, yet the statement of Nearly all of them outline an educational and

Thus, private, ethnic charity organized through fraternal societies, labor unions

the new immigrant community at that time particular attention to the role of Catholics, a numerically important segment of and churches played an important part in the poverty relief system of the time. institutions in New York State in 1900 came from private sources. He calls Katz (1986:45) estimates that roughly half of the income of all charitable

needy are truly impressive (Katz, 1986:46) relative poverty of the Catholic community, these efforts made on behalf of the facilities in Buffalo, but it is unlikely that it was less than 50 percent. Given the nonpublic institutions were affiliated with the Catholic church. It is difficult to quantify the proportion of institutional, nonpublic relief provided by Catholic Catholics gave exceptionally large amounts for relief. Indeed, many of the

rates generally a little higher for the foreign than the native born. about a fourth of all workmen belonging to such societies, with the membership ies by nativity. Although the numbers vary from survey to survey, overall we find collected by the labor bureaus in key industrial states in the late nineteenth century. pation in such "beneficial societies" is contained in Table 8-5 that summarizes data disability (Kleinberg, 1989:273). More systematic evidence of immigrants' partici-The table displays the fraction of surveyed workers belonging to beneficial societdues to compensate union members' families in case of a work-related death or Pittsburgh's local of the Brotherhood of Railroad Brakemen earmarked a portion of against the many contingencies that might put them at financial risk. For example, Immigrants also purchased insurance to protect themselves and their families

activities in Pittsburgh period also promoted informal acts of charity. Kleinberg describes some such These benefit societies and the many labor and ethnic organizations from the

to make philanthropic gestures "a grand success financially" (Kleinberg, 1989:273) disabled comrades. It was the trade unionists' duty to do everything in their power might suffer a similar tragedy. payday. The workers and their families shared what they had, aware that they, too, reinforced it through appeals in the labor press "to do the handsome thing" for There were spontaneous collections in the mill or at the gates on almost every The collective culture enshrined generosity and

ate burden on public charitable agencies or on private philanthropies proportionately needy, we have found no evidence that it placed a disproportion-Although the early twentieth-century immigrant community may have been dis-

TABLE 8-5 Membership in Beneficiary Societies by Nativity, Various Surveys of Male Workers, 1884-1894

			Beneficiary Society	ging to ociety
Year	State '	Survey of	Native-Born	Native-Born Foreign-Born
1844	Iowa	Teachers	16.8%	35.7%
1884-1887	Kansas	Wage Earners	26.5	25.9
1888	Michigan	Stone Workers	5.4	10.7
1889	Michigan	Furniture Workers	21.9	25.5
1890	Michigan	Detroit Iron Workers	21.6	33.8
1890	Michigan	Iron Workers outside of Detroit	21.2	26.4
1890	Maine	Wage Earners	51.3	39.9
1892	Missouri	Wage Earners	48.3	58.8
1892	California	Wage Earners	47.8	60.2
1894	Michigan	Farm Laborers	.14.7	14.7

ond, and Third Annual Reports of the Kansas Bureau of Labor and Industrial Statistics. Berkeley and User's Manual: A Survey of 1,165 Workers in Kansas, 1884-1887; Reported in the First, Sec-Sutch, and Hongcheng Zhao. Codebook and User's Manual: A Survey of 1,084 Workers in Maine SOURCES: Susan B. Carter, Roger L. Ransom, Richard Sutch, and Hongcheng Zhao. Codebook Manual: A Survey of 259 Wage-Workers in Missouri, 1891; Reported in the Fourteenth Annua Susan B. Carter, Roger L. Ransom, Richard Sutch, and Hongcheng Zhao. Richard Sutch, and Hongcheng Zhao. Codebook and User's Manual: A Survey of 5,600 Farm Berkeley: Institute of Business and Economic Research, 1993; Susan B. Carter, Roger L. Ransom Reported in the Eighth Annual Report of the Michigan Bureau of Labor and Industrial Statistics Survey of 4,918 Agricultural Implement and Ironworkers in Michigan Outside of Detroit, 1890 Carter, Roger L. Ransom, Richard Sutch, and Hongcheng Zhao. Codebook and User's Manual: A and Industrial Statistics. Berkeley: Institute of Business and Economic Research, 1993; Susan B Industry of Detroit, 1890; Reported in the Eighth Annual Report of the Michigan Bureau of Labor Hongcheng Zhao. Codebook and User's Manual: A Survey of 3,920 Workers in the Ironworking Business and Economic Research, 1993; Susan B. Carter, Roger L. Ransom, Richard Sutch, and Annual Report of the Michigan Bureau of Labor and Industrial Statistics. Berkeley: Institute of Survey of 5,419 Workers in the Furniture Industry of Michigan, 1889; Reported in the Seventh Carter, Roger L. Ransom, Richard Sutch, and Hongcheng Zhao. Codebook and User's Manual: A and Industrial Statistics. Berkeley: Institute of Business and Economic Research, 1993; Susan B Workers in Michigan, 1888; Reported in the Sixth Annual Report of the Michigan Bureau of Labor Richard Sutch, and Hongcheng Zhao. Codebook and User's Manual: A Survey of 719 Berkeley: Institute of Business and Economic Research, 1993; Susan B. Carter, Roger L. Ransom Institute of Business and Economic Research, 1993; Susan B. Carter, Roger L. Ransom, Richard search, 1993; Susan B. Carter, Roger L. Ransom, Richard Sutch, and Hongcheng Zhao. Codebool Report of the Iowa Bureau of Labor Statistics. Berkeley: Institute of Business and Economic Re-Codebook and User's Manual: Survey of 347 Teachers in Iowa, 1884; Reported in the First Biennia Economic Research, 1993; Susan B. Carter, Roger L. Ransom, Richard Sutch, and Hongcheng Zhao Biennial Report of the California Bureau of Labor Statistics. Berkeley: Institute of Business and and User's Manual: Survey of 3,493 Wage-Earners in California, 1892; Reported in the Fifth and Economic Research, 1993. Report of the Missouri Bureau of Labor Statistics and Inspection. Berkeley: Institute of Business Labor and Industrial Statistics. Berkeley: Institute of Business and Economic Research, 1993. Laborers in Michigan, 1894; Reported in the Tweifth Annual Report of the Michigan Bureau of 1890; Reported in the Fifth Annual Report of the Maine Bureau of Industrial and Labor Statistics Codebook and User's

#### Old-Age Support

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During the age of mass immigration about the turn of the century, the only significant public program of old-age support was a federal pension system providing benefits for Union Army veterans of the Civil War.<sup>60</sup> By 1907 every male over the age of 62 who had served in the Union Army was eligible to receive a pension. Close to 20 percent of all males over age 60 actually received pensions. In monetary terms these pensions amounted to approximately 30 percent of the average annual nonfarm income of males (Ransom et al., 1996). Because the pension was limited to those who served in the armed forces of the United States during the Civil War, it did not provide support for the bulk of immigrants, most of whom arrived in the United States after that war's end.<sup>61</sup> Up to 1935, then, the government-run pension system redistributed income from the foreign born to the native born.<sup>62</sup>

The first comprehensive public program of old-age support was established by the Social Security Act of 1935 that initiated a pay-as-you-go system in which the elderly are supported by the tax payments of those currently in the labor force. Redistribution between the native and foreign born can take place within such a system if the relative proportions of each group in the wage-earning and retirement age groups differ. 64

In Figure 8-20 we plot the percentage of the foreign-born population by age at 20-year intervals beginning in 1930, shortly before the Social Security Act was

Pechman et al., 1968:31-34; and Achenbaum, 1986:18-37).

over a set period and would not be tied to lifetime contributions, benefits would be paid by current tax contributions, and the reserve fund would buffer the system against recessions (see Dulles, 1939).

<sup>&</sup>lt;sup>60</sup>For descriptions of the establishment and evolution of this system see Oliver (1917), Glasson (1902, 1918), and McMurray (1922).

<sup>&</sup>lt;sup>61</sup>For analyses of the politics of this legislation see Quadagno (1988), Skocpol (1992), Orloff (1993), and Ransom et al. (1996).

<sup>62</sup>Tontine and other private insurance would have redistributed resources from the foreign to the native born if, as seems likely, the foreign born had higher mortality and default rates.

<sup>63</sup>The original 1935 Act creating old-age "insurance" inaugurated a payroll tax (contributed to equally by the employee and the employer) but deferred all benefits until 1942 and based them on total lifetime earnings. These tax receipts were to be accumulated in a reserve fund; however, no attempt was made to fund the proposed benefits on an actuarial basis, and the benefit formulas had a progressive bias in favor of low-income earners. Amendments made in 1939 moved the system even more explicitly to pay as you go. Benefits would begin in 1940, they would be based on earnings

<sup>&</sup>lt;sup>64</sup>Borjas argues against the notion that the Social Security system redistributes resources to the native born by focusing on an age difference between the native and foreign born in their point of entry into the system: "It is important to realize that the median age of immigration is 30, so that many immigrants pay into the Social Security system for a much shorter time span than natives, yet collect roughly the same benefits" (Borjas, 1994:1707-1708). This rate of return consideration is irrelevant. Our pay-as-you-go system transfers resources to the group with proportionately more contributors than recipients. At the present time, the foreign born are the disproportionate contributors. Only if immigration were cut off or reduced considerably would the Social Security system transfer resources from the native to the foreign born in coming decades.

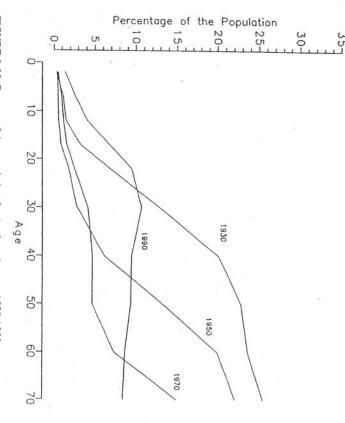


FIGURE 8-20 Percent of the population foreign born by age, 1930-1990

early 1920s to a level well below that which had prevailed up until that time. The and World War II dramatically reduced the inflow of immigrants beginning in the wage-earning age groups. This is because the Quotas Act, the Great Depression, shows that, in 1930, and increasingly so up to 1970, the foreign-born fraction of whelmingly of older persons who had migrated prior to the 1920s. inflows, the foreign-born population aged, until by 1970 it was comprised overborn fraction of the young adult population. As time passed without any new radical reduction in the immigrant flows led to a parallel reduction in the foreignthe population in the retirement age group was larger than the fraction in the passed, and ending in 1990, the date of the latest federal census. The figure

tion of the foreign born in 1990 reveals, the resumption of immigration in the system works to redistribute resources from the foreign born to the native born proportion of foreign born in the working-age groups. Today the Social Security 1980s reversed the direction of the flow of old-age benefits by raising the relative transfer of resources from the native to the foreign born. Yet as the age distribu-Under these conditions, the Social Security system effected a substantial

> tion would be greater still Were the admission of immigrants to increase, the magnitude of the redistribu-

#### **Educational Services**

cording to Handlin: this period encouraged school attendance for the children of immigrants. Acgration Commission, 1911:Volume 2, p. 5, emphasis added). The native born of educational facilities and what progress they make in school work" (U.S. Immiextent children of the various races of immigrants are availing themselves of one. The Immigration Commission, for example, sought to determine "to what of contemporary observers and of historians of the period has been the opposite this question has never been posed in the historical literature. Indeed, the concern their share of these public education expenditures? To the best of our knowledge, of all youths over an increasing fraction of their lives. Did the immigrants pay sory schooling and child labor laws, this system educated an increasing fraction Financed through the property tax with attendance rates influenced by compulhad the most extensive and best-funded public education system in the world, 65 In the period of massive immigration near the turn of the century, America

of specific bodies of knowledge or skills--Latin, grammar, writing, and the like. cans. The schools, they argued, were less important as media for the transmittal generation and thereby reshaping society (Handlin, 1982:7). They were rather instruments for molding the thoughts and behavior of the next transformed the mission of the schools in the view of many influential Ameri-Toward mid-(nineteenth) century, an explosive fusion of conversion and reform

institutions apart. . . . At worst, the school had been the representative of the state. grants. For many immigrant parents, on the other hand, schools were, Schools were the primary institution for "Americanizing" the children of immi-

ethnic differences remained even after controlling for background factors. However, Perlmann, in a study of Providence, Rhode Island, found that large differences in terms of the lower socioeconomic status of foreign-born parents. compared with 60 and 55 percent for sons of the Irish and Russians, respectively. The daughters of immigrants fared even worse. Licht accounts for these ethnic sons of native white Americans were in school in Philadelphia in 1900. That rate among elementary school-age children, at older ages and higher (and more exin school. Licht (1992:22), for example, found that 71 percent of 13-year-old native born to be in attendance. Although the differences were not very large pensive) levels of schooling, the children of immigrants were far less likely to be which imposed on youth a set of values foreign to the parents" (Handlin, 1982:6). Overall, the children of immigrants were less likely than the children of the

century, see O'Rourke and Williamson (1995) 65For some international comparisons of school enrollment and literacy rates in the late nineteenth

1880 the son of a Yankee was 5.8 times more likely than the son of an Irishman to begin high school and still 1.8 times more likely after controlling for father's occupation, family property value, number of siblings, and whether or not both parents were present. Of the specific ethnic groups Perlmann studied, only the children of Russian Jews (in 1915) faced better educational prospects than the children of the native born (Perlmann, 1988:204-205).

Yet another reason to doubt that immigrants received positive transfers through the education system was that many immigrants sent their children to private, church-affiliated schools. In 1890, the first year for which national statistics are available, approximately 12 percent of all elementary and secondary school students were enrolled in private schools (Bureau of the Census, 1975/1997, series H418 and H426). Virtually all of these pupils were in Catholic schools which served predominantly immigrant communities.

Finally, as we noted above, immigrants tended to be homeowners at greater rates than the native born. Because the financing of the schools was based on the local property tax, the high foreign-born home ownership rate suggests that immigrants may have contributed a disproportionate share to school finances. <sup>66</sup> On the other hand, immigrant families tended to be larger and to have more schoolage children than the average native-born household head and homeowner.

children of foreign-born (and none of the children of native-born) fathers at native born. These calculations suggest that there may have been a net transfer of ing to the nativity of their fathers.67 We then compared this count with the native born. We counted the number of school children (through age 19) accordspent far less per pupil, yet these were far more likely to enroll children of the tribution would be from immigrant to native born. high school education was large enough, then the imputed direction of the redistended Catholic schools or if the cost differential between an elementary and a However, the case is far from clear. For example, if 20 percent of these urban resources from the native to the foreign born through the public school system property taxpayer for the foreign born as compared with a ratio of 3.7 for the home-owning household heads among the foreign born-4.7 school children per number of homeowners by nativity. We found a higher ratio of school children to large urban areas in an effort to control for school costs. Schools in rural areas areas in the United States, using the 1910 IPUMS. We restricted our search to we examined school attendance and home ownership patterns in large urban In an effort to gauge the direction of the net flow of public education services

We conclude by noting that, although there is clearly room for further research on this topic, our overview suggests that the education system does not appear to have been an important arena for transferring resources from the native

67Unforunately, the federal census, from which the IPUMS sample was drawn, did not collect information on the nature of the institutions in which students were enrolled.

to the foreign born during this period. It is certainly clear that the native born were not as concerned about the possibility of such transfers in the way they are today.

# IMMIGRATION AND THE CHARACTER AND QUALITY OF AMERICAN LIFE

### Immigration and Population Growth: The Question of Race Suicide

One concern in the previous era of immigration was that immigrants and their children would overwhelm the native stock in the country's population.

Foreign immigration into this country has . . . amounted not to a reenforcement of our population, but to a replacement of native by foreign stock. . . . If the foreigners had not come, the native element would long have filled the places the foreigners usurped (Walker, 1899:422-425).

In speaking thus, Francis Amasa Walker, President of the American Economic Association, spoke for many of his contemporaries. There were two fears. If the foreign born had a relatively higher rate of natural increase, then they would dominate in the population sooner or later. Moreover, the presence of foreigners may have somehow discouraged the native born from procreating. The rapid influx of immigrants, in other words, actually depressed the rate of natural increase among the native born.

King and Ruggles (1990) report that fears about the differentially high fertility of the foreign born were expressed as early as 1867. In the words of John Todd, a Congregrational minister:

while our foreign population has large families, our own native American families are running out, and, at this rate, must and will entirely run out. The statistics presented to our legislators on this subject are fearful (Todd, 1867, quoted in King and Ruggles, 1990:348).

King and Ruggles explored this first of the so-called Walker effects using data from the Public Use Microdata Sample from the federal census of 1900. Contrary to the beliefs of contemporary observers, their analysis of the data showed no tendency for the "ethnics," as King and Ruggles refer to them, to have higher levels of fertility than those of the native-born population. Although the foreign born themselves had higher levels of fertility than the native born, the *children* of the foreign born had strikingly lower levels of fertility. Overall, these "ethnics" had *lower* rates of natural increase than the native born. The explanation offered by King and Ruggles focuses on the geographic distribution of the native and foreign groups. The foreign born and their children tended to live in urban sections of the Northeast where the fertility for *all* residents were the lowest in the

<sup>&</sup>lt;sup>66</sup>Alternatively, renters might be thought to pay the school tax indirectly through higher rents. The issue of the incidence of the property tax is not resolved by empirical work in public finance.

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nation. Whatever were the conditions depressing the fertility in these sections of the country, they affected the immigrants and the native stock to a similar degree

The weight of scholarship leans heavily against the second of the alleged Walker effects, as well, that is, the purported depressing effect of immigration on the fertility of the native born. Although fertility fell dramatically during the period of high immigration, scholars emphasize the roles of the decline in child mortality and developments such as the spread of universal schooling, urbanization, increased employment opportunities for women, and the introduction of new goods. All of these developments raise the cost of children and thereby reduce parents' demand for them (Easterlin, 1996:111; Thomas, 1961).

### The Economic Mobility of Immigrants

Ferrie (1997) has made an extensive study of immigrants who arrived in the 1840s. By matching the names of immigrants on the passenger manifests submitted by ship captains to immigration officials with individuals located in the manuscript censuses of population for 1850 and 1860, Ferrie was able to obtain an estimate of the skills, wealth, and economic mobility of recently arrived immigrants in those two years. He finds that immigrants rapidly accumulated wealth and human capital, exhibited substantial upward occupational mobility, and fared best if they entered with some skills than without. Compared with the rapid assimilation and improvement in status of modern immigrants, however, the pre-Civil War immigrants fared less well.

The upward mobility of immigrants and their children is illustrated by data from the 1910 Census assembled by Hutchinson (1956). He created an index of occupational concentration. Setting the proportion of foreign born in the labor force at the scale of 100, he then calculated the relative proportion of foreign-born workers in each industry. An industry in which the foreign born were underrepresented has an index number below 100, one with a more than proportionate share of foreign-born workers receives an index number greater than 100. The exercise is then repeated for the native-born workers of foreign parentage. A sample of results is displayed in Table 8-6. The foreign born appear to be concentrated in the lower-skilled and lower-status occupations listed at the bottom of the table. By the second generation, however, the prestigious professional occupations of accountant, engineer, and lawyer are at or above parity, and the concentration of immigrants in the low-status occupations has all but disappeared.

#### CONCLUSIONS

The assigned task for this chapter was to review, synthesize, and assess the scholarly literature on the economic and demographic impacts of the last great mass migration to the United States in the early part of this century. Our objec-

TABLE 8-6 Occupational Concentration Index for the Foreign-Born and Foreign-Stock Work Forces by Occupation, 1910 ("All Occupations" equal

SOURCE: Edward P. Hutchinson, Immigrants and Their Children, 1850-1950. New York: John Wiley, 1956, table 39: 204-206. As reproduced in Stanley Lebergott, The Americans: An Economic Record. New York: W.W. Norton, 1984, table 26.4: 344.

tive was to do this in a way that would lend further understanding of the consequences of current migration flows. While we have carried out our assignment as well as we were able, we must conclude that there are no simple lessons that emerge for the current set of policy concerns. This is true for at least four different reasons, which we have noted in more detail in the body of this report.

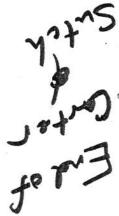
- First, the immigrants are different. Another way of saying this is that the level, character, and dynamics of the immigrant flows in the two periods are very different. Largely open borders appear to engender different flows than the highly regulated entry policy we have today.
- Second, the economy is different. Today, education is a key ingredient in the economic success of individuals. The U.S. economy now operates in a more open world economy than was true at the beginning of the century. For that reason, the size of the U.S. market may be a less important constraint on the ability of U.S. industries to take advantage of economies of scale. Communication and transportation within the United States are faster, easier, and cheaper than before. For that reason, the pace of invention and innovation may be less dependent upon the geographic proximity of interrelated activities.
- Third, the scale and role of government are different. Today, government
  plays a much larger role in the provision of services and in redistribution among
  members of the population than was true at the turn of the century.
- Fourth, the theoretical approach taken by scholars who analyzed the impacts of the mass migrations in the two decades preceding World War I was

resident population aspects of the mass immigration that were beneficial from the point of view of the yond the first-round effects. Taking a long-run perspective, they identified many nomic historians writing about the earlier period of high immigration went beresident workers who come into direct competition with new immigrants. Ecomust be easy to show that these first-round consequences tend to be harmful to the first-round impacts of immigration. Judging from the current literature, it economy at the beginning of this century were seen as diverse, complex, and ogy, productivity, and changes in factor proportions. The various elements of the interdependent. The propensity in the current literature is to concentrate only on long-run consequences of immigration on economic growth, advancing technolwas couched in terms of the "aggregate production function" and emphasized the flows today. Broadly speaking, the scholarly literature analyzing the earlier flows different from the approach taken by scholars analyzing the current immigran

gration on productivity, growth, and economic development. The picture that suggests that scholars might profitably take a longer view and shift at least some the earlier immigration for policy makers today, there is one constancy that options than is widely recognized today will emerge is likely to be less worrisome and to offer a wider range of policy of their attention away from redistributive issues and toward the impact of immicomplex and interdependent than it was at the turn of the century. This fact emerges. It is that, although different, the American economy is probably no less Although there is no simple, single "lesson" from our review of the effects of

#### ACKNOWLEDGMENTS

ımmıgratıon. available manuscr versity History R Historical L paper at their seminar an invaluable internation Wegge. The students of the James Dunlevy, Claudia Goldin detailed comments and suggestion We would like to thank Ron Lee, issner. We are grateful to all these arch Labo e also received assistance from 5r Statistics ganizations that for Political and Social Re its of their forthcom n April 1997. Joseph atory at the University perspective when we resented an Project at the Univers miversidad de San Andr Christopher Hanes, Peter Lindert, rovided data used We also received valuable mg books on th nes Smith, and Gavin Wrigh errie and Jeffr dividuals and Sert Barde y of Cal in this par S, Buenos the Univ ra, and Williamsor sututions arly draft of the tires, gave us d Simone Inter-uniie Social ide the from of



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"A thousand sorrows and a hatred ten thousand-Even a martyr or a hero would change The barbarians imprison me in this place. Hoping to step ashore the American continent is countenance." the most difficult of difficulties. fold burns between my brows.

Poem written on barrack wall, Angel Island

日本村によりました 四十分 如明明 好, 四十四 医中医病者如此 图 棒扇扇 春日 西日 白年 同世を向し在我りまる大村 西安美国安西村里 医第四分 安林东北山山北部 Bfood ENKED 同中しらかのまりるな 医第一月对安提斯 **医女性代表性 ある** ですべつられまり 四年 五十二十二十八年 同中型打出我村口是 同本社的方式工 @中田秋七天人一日以及 大田林又人 图本: 大學也其一世 多其時間 西村山西田村 同的令上来的行程出世 国本沿海人民

Gd कि के स्कृतिमान

四年女女女 在图公

24分內在廣室相管

医多种种毒用 西本里的五百万 因の1世代割中で 医食在人们是如心 向义生食业村也 历典中午科技会

any hills. trees, or bodies of water in the back, front, left, or right of your how many people live there? What direction does your village face? Are there village? In what alley is the ancestral hall?" If the answers of the village in an attempt to catch "paper sons," immigrants illegally posing as immigrant and his father did not match, the immigrant would be deported maternal grandparents' village from yours? How large is your village and questions (with answers) in these coaching notes are: "How far is your the children of Chinese American "paper fathers." Some of the specific Island. Inspectors asked specific questions about family, home life, and immigrants and their relatives to prepare for the interrogations on Angel 黄人同本社也名

向から見とスタンと住民後不過以来を民婦者が自然之間であるとなるとなるとは、 間世上と 関西上島 上来村屋里に直面と出るとり時日 本村の京南祖立の文をのわちまれる東北の東京大田をはなるといるといいるといいると 我却外有家民國 在了近日本我村沒有了一大新的四十八年日 春村生命の北 我村内川師を見るいなえ任 大日 114-11 200 田子田 \* まるなのなる 指生をあるる 村女林 医海里神经神经神经 上本村 印書を見まるなる

大くけんがかり 生 中心をあいまれば

我义而是在有少五人人

失整有正是给张一州

我今日博史清林县民中京世世 居日本京村

共北极 相 相

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