The Role of International Migration in Projecting Racial and Ethnic Diversity in the U.S. Population

By

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Abstract

International migration to and from the United States makes an important contribution to the racial and ethnic diversity of the nation. Using projections of the United States population produced by the U.S. Census Bureau, we examine the effects that different levels of international migration could have on shaping the racial and ethnic composition over the next four decades. The Asian population is the most impacted by changes in migration levels with respect to size, age structure, and proportional representation. The Hispanic population is likewise influenced by migration, though its population trends are likely to persist even in the absence of migration. The level of international migration also affects the timing of the majority-minority crossover, the year in which the non-Hispanic White alone population becomes less than 50 percent of the total population.

Introduction

The United States is expected to experience significant increases in racial and ethnic diversity over the next four decades. The pace and extent of these changes will be shaped in part by the level of international migration. Using projections of the United States population produced by the U.S. Census Bureau, we examine the effects that different levels of international migration could have on shaping the racial and ethnic composition of the United States over the next four decades. Our findings illustrate the extent to which the level of international migration causes racial and ethnic diversity to vary in the coming decades with respect to size, proportional representation, and age structure.

Data and Methods

Our research utilizes data from the 2008 National Population Projections and from a series of supplemental projections produced in 2009.¹ These projections are of the resident population by age, sex, race, and Hispanic origin. The projections are based on Census 2000 and were produced using a cohort-component method. The components of change were projected into the future based on past trends. The projections cover the period 2000 through 2050. This paper presents results for the years 2010 to 2050. The Census Bureau recommends that the population estimates be used as the measure of the current population for years when both population estimates and projections are available.

¹ Further details on both the 2008 and 2009 National Projections are available at <u>http://www.census.gov/population/www/projections</u>.

Mortality and fertility projections were developed using the same methodology for both the 2008 and 2009 National Projections. For the 2008 series, net international migration was projected primarily using historical data on foreign-born immigration from 1972 to 2002, and also includes net migration from Puerto Rico, the net movement of the Armed Forces population between the United States and overseas, and the migration of the native born to and from the United States. Projections of net international migration for the 2009 series were developed by modifying the levels used in the 2008 series to create four alternative net international migration assumptions: (1) High Net International Migration, (2) Low Net International Migration, (3) Constant Net International Migration, and (4) Zero Net International Migration.

In the High and Low Net International Migration series, the projected net international migration from the 2008 series was increased and reduced, respectively, by the ratio of the net international migration data produced by the Population Estimates Program to the projected net international migration from the 2008 series for the years 2001 through 2008 (14.14 percent). In the Constant Net International Migration series, the level of net international migration is held constant at a reduced level of 975 thousand migrants over the projection period, and illustrates the effect a level trend in international migration would have if maintained over the projection period. In the Zero Net International Migration series, net international migration is held constant at a value of zero for the entire projection period, thus assuming a closed population with no movement of individuals into or out of the United States.

A comparison of the level of net international migration by year for each series is presented in Figure 1. It is noteworthy that the level of migration fluctuates up and down

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during the first decade in the 2008 National Projections and in the High and Low Net International Migration Series produced in 2009. These fluctuations are attributable to the projected out-migration of H1-B visa holders who arrived in during the 1990s and to the movement of the Armed Forces to and from the United States during this decade, which was projected to stabilize after 2010.

Findings

The highest levels of net international migration correspond to the largest amount of growth for the Asian and Hispanic populations, which are the primary immigrant groups to the United States (Table 1). For low to high levels of international migration, the Asian and Hispanic populations are projected to more than double in size by 2050. Even if net international migration was maintained at a constant level of nearly one million, the Hispanic population is still projected to more than double by 2050, while the Asian population is expected to increase by 79 percent. The pace at which the Asian and Hispanic populations will grow is projected to slow considerably (Figures 2 and 3).

Most other race groups are projected to experience a moderate increase in size over the next four decades in all five projection series, and there is little difference in the projected growth rates for these groups across projection series. The one exception to this trend is for the non-Hispanic White alone population, which is projected to begin to decline in size in all five series (Figure 4). This decline is projected to begin around 2030 for all series except the Zero Net International Migration series. In that series, the decline begins in 2022. Many trends are also evident upon examining the projected changes in the proportional distribution of the U.S. population by race and Hispanic origin (Table 2). The White alone population decreases as a percentage of the total population in all series (Figure 5). In particular, the non-Hispanic White alone population is expected to experience a large decline in proportional representation (Figure 6). The Black, American Indian and Alaskan Native, and Native Hawaiian and Other Pacific Islander populations are expected to maintain or slightly increase their percent share of the population in all series.

With the exception of the Zero Net International Migration series, the Asian population is projected to experience small increases in its percent share of the population (Figure 7). The percentage of Hispanics in the U.S. population is projected to increase substantially in all series, even in the Zero Net International Migration series (Figure 8). For the Hispanic population, the level of migration is projected to enhance but not drive trends in population growth and aging. Given differences in fertility rates across race and Hispanic origin groups, we find that even in the absence of international migration, the size of the Hispanic population is projected to increase substantially in the coming decades. In contrast, we find that the size and age structure of the Asian population is strongly linked to projected levels of migration.

The level of migration to the United States will also influence the extent to which the population will age over the next forty years. International migrants tend to be younger individuals (typically under the age of 35), which effectively slows the pace at which the population ages. Thus, high levels of migration are expected to produce a younger population while less or no migration will result in an older population.

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The median age for all race and Hispanic origin groups increases over time in all five scenarios, indicating that the U.S. population is getting older (see Table 3). Moreover, the projected level of net international migration produces the anticipated effects on the median age of the population. Where migration is the highest, median age is expected to rise to 38.6 years by 2050. In the absence of migration, the median age is projected to reach 42.2 years by 2050.

The level of net international migration is projected to have the most influence on the median age of the Asian population. Under the assumption of constant net international migration, the median age of the Asian population is projected to increase from 35.9 years in 2010 to 42.3 years in 2050. With higher levels of migration, the median age of the Asian population increases from 25.7 years in 2010 to 43.1 years in 2050. Comparatively, the Hispanic population is projected to experience a smaller increase in median age, though migration also influences the pace at which this group is projected to age. Under the assumption of a higher level of migration, the median age of the Hispanic population is expected to be 30.9 years in 2050. In contrast, their median age is projected to rise to 33.1 years if there is constant migration.

The White alone population is expected to experience slight increases in median age and migration does exhibit some effects on the pace at which this group will age. However, migration is not projected to alter the pace of aging for the non-Hispanic White alone population. For this group, the median age is projected to rise to approximately 45 years by 2050 in all scenarios. The median ages for the Black, American Indian and Alaskan Native, and Native Hawaiian and Other Pacific Islander populations are projected to increase over time in all scenarios. As shown for the non-Hispanic White alone population, the level of international migration does not affect how quickly these groups are projected to age.

The level of net international migration will affect the timing of the majorityminority crossover, the year in which the non-Hispanic White alone population becomes less than 50 percent of the total population. In each of the four series where migration occurs, the size of the minority population is expected to increase to the point that they represent the numeric majority between 2040 and 2050 (see Table 4 and Figure 9). The level of net international migration will influence how quickly this crossover occurs. Higher levels of net international migration are projected to lead to an earlier crossover of the minority share of the population, while lower levels will delay the timing of this crossover.

Conclusions

The level of net international migration is projected to play an important role in shaping the racial and ethnic composition of the U.S. population in the coming years. The Hispanic and Asian populations are expected to be the most impacted by net international migration in terms of growth, proportional representation, and age structure. However, the Hispanic population is projected to grow even in the absence of international migration, indicating that trends for this population are also influenced by its current age distribution and the assumption that fertility rates for this group will remain relatively higher over time.

There is little variation found in the projection trends in growth and aging for the Black, American Indian and Alaskan Native, and Native Hawaiian and Other Pacific

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Islander populations across the projection series. In contrast, both the size and percent share of the non-Hispanic White alone population are projected to decline in all series. The pace and magnitude of this decline will be influenced by the level of net international migration that occurs in the coming decades. Subsequently, net international migration will affect the timing of the majority-minority crossover.



Figure 1. Projections of Net International Migration for the United States: 2001 to 2050

NIM = Net International Migration

(Resident population as of July 1, Numbers in thousands.) Race, Hispanic Origin, 2008 Net International Migration Series Total Population 2008 Net International Migration Series Total Population 310,233 312,504 308,282 307,907 296,505 2030 373,504 382,612 366,683 368,407 318,346 2050 439,010 458,176 422,554 398,528 322,249 One Race 300,4734 306,6971 302,812 300,2442 291,214 2030 363,621 372,566 356,5041 348,783 309,478 2050 422,828 4441,584 406,717 383,129 309,309 2010 246,630 248,137 245,336 245,300 237,521 2030 286,109 292,161 280,914 277,106 249,447 2050 324,800 337,631 313,783 299,755 247,067 Black 34,906 47,276 43,873 48,036 47,276 43,873	Table 1. Projections of the Population by Race, Hispanic Origin, and Projection Series: 2010 to 2050					
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2050 1,222 1,303 1,153 1,042 733 Two or More Races 2010 5,499 5,534 5,470 5,465 5,291 2030 9,883 10,046 9,742 9,624 8,869 2050 16,183 16,582 15,837 15,400 13,642 Non-Hispanic White Alone 200,853 201,235 200,524 200,639 198,560 2030 207,217 208,633 206,002 205,562 198,678 2050 203,347 206,118 200,967 198,888 186,647 Hispanic 2010 49,726 50,918 48,702 48,531 42,504 2030 85,931 90,860 81,699 78,071 56,036 2050 132,792 143,527 123,576 110,743 67,672 ¹ Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. ² Hispanics may be of any race.	2030	885	923	852	815	655
Two or More Races 5,499 5,534 5,470 5,465 5,291 2030 9,883 10,046 9,742 9,624 8,869 2050 16,183 16,582 15,837 15,400 13,642 Non-Hispanic White Alone 2010 200,853 201,235 200,524 200,639 198,560 2030 207,217 208,633 206,002 205,562 198,678 2050 203,347 206,118 200,967 198,888 186,647 Hispanic 2010 49,726 50,918 48,702 48,531 42,504 2030 203,347 206,118 200,967 198,883 186,647 2030 33,972 143,527 123,576 110,743 67,672 2030 332,792 143,527 123,576 110,743 67,672 1 Race refers to each of the race groups alone and the Two or More Races category represents the	2050	1,222	1,303	1,153	1,042	733
2010 5,499 5,534 5,470 5,465 5,291 2030 9,883 10,046 9,742 9,624 8,869 2050 16,183 16,582 15,837 15,400 13,642 Non-Hispanic White Alone 2010 200,853 201,235 200,524 200,639 198,560 2030 207,217 208,633 206,002 205,562 198,678 2050 203,347 206,118 200,967 198,888 186,647 Hispanic 2010 49,726 50,918 48,702 48,531 42,504 2030 2030 132,792 143,527 123,576 110,743 67,672 1 Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. 2 ¹ Hispanics may be of any race. ² Hispanics may be of any race.	Two or More Races	- 100		5 470	5 405	
2030 9,883 10,046 9,742 9,624 8,869 2050 16,183 16,582 15,837 15,400 13,642 Non-Hispanic White Alone	2010	5,499	5,534	5,470	5,465	5,291
2050 16,183 16,582 15,837 15,400 13,642 Non-Hispanic White Alone 2010 200,853 201,235 200,524 200,639 198,560 2030 207,217 208,633 206,002 205,562 198,678 2050 203,347 206,118 200,967 198,888 186,647 Hispanic 2010 49,726 50,918 48,702 48,531 42,504 2030 2030 132,792 143,527 123,576 110,743 67,672 1 Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. 2 1 132,792 143,527 123,576 110,743 67,672 1 Hispanics may be of any race. 2 1	2030	9,883	10,046	9,742	9,624	8,869
Non-Hispanic White Alone 2010 200,853 201,235 200,524 200,639 198,560 2030 207,217 208,633 206,002 205,562 198,678 2050 203,347 206,118 200,967 198,888 186,647 Hispanic 2010 49,726 50,918 48,702 48,531 42,504 2030 85,931 90,860 81,699 78,071 56,036 2050 132,792 143,527 123,576 110,743 67,672 ¹ Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. ² Hispanics may be of any race. ² Hispanics may be of any race.	2050	16,183	16,582	15,837	15,400	13,642
2010 200,853 201,235 200,524 200,639 198,560 2030 207,217 208,633 206,002 205,562 198,678 2050 203,347 206,118 200,967 198,888 186,647 Hispanic 2010 49,726 50,918 48,702 48,531 42,504 2030 85,931 90,860 81,699 78,071 56,036 2050 132,792 143,527 123,576 110,743 67,672 ¹ Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. ² Hispanics may be of any race. ² Hispanics may be of any race.	Non-Hispanic White Alone	000.050	004.005	000 504	000.000	400 500
2030 207,217 208,633 206,002 205,562 198,678 2050 203,347 206,118 200,967 198,888 186,647 Hispanic	2010	200,853	201,235	200,524	200,639	198,560
2050 203,347 206,118 200,967 198,888 186,647 Hispanic 2010 49,726 50,918 48,702 48,531 42,504 2030 85,931 90,860 81,699 78,071 56,036 2050 132,792 143,527 123,576 110,743 67,672 ¹ Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. ² Hispanics may be of any race.	2030	207,217	208,633	206,002	205,562	198,678
Hispanic 49,726 50,918 48,702 48,531 42,504 2030 85,931 90,860 81,699 78,071 56,036 2050 132,792 143,527 123,576 110,743 67,672 ¹ Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. ² Hispanics may be of any race.	2050	203,347	206,118	200,967	198,888	186,647
2010 49,726 50,918 48,702 48,531 42,504 2030 85,931 90,860 81,699 78,071 56,036 2050 132,792 143,527 123,576 110,743 67,672 ¹ Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. ² Hispanics may be of any race.	Hispanic	40 700	50.040	40 700	10 504	40 50 4
2030 85,931 90,860 81,699 78,071 56,036 2050 132,792 143,527 123,576 110,743 67,672 ¹ Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. 2 ² Hispanics may be of any race. 2 3	2010	49,726	50,918	48,702	48,531	42,504
2050 132,792 143,527 123,576 110,743 67,672 ¹ Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. 2 ² Hispanics may be of any race. 2 3	2030	85,931	90,860	81,699	/8,0/1	56,036
 Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race. ² Hispanics may be of any race. 	2050	132,792	143,527	123,576	110,743	67,672
² Hispanics may be of any race.	¹ Race refers to each of the race group	s alone and the Two or N	Nore Races category rep	resents the population re	porting more than one ra	ce.
	² Hispanics may be of any race.					

Note: The original race data from Census 2000 are modified to eliminate the "some other race" category. This modification is used for all Census Bureau projections products and is explained in the document entitled "Modified Race Data Summary File Technical Documentation and ASCII Layout" that can be found on the Census Bureau website at http://www.census.gov/popest/archives/files/MRSF-01-US1.html.

Source: U.S. Census Bureau, 2008 and 2009.





Note: The exponential growth rate is calculated by taking the natural log of the annual percent change in the size of the total population for each group. Source: U.S. Census Bureau, 2008 and 2009.



Figure 3. Projections of the Exponential Growth Rate of the Hispanic Population by Projection Series: 2010 to 2050 (Percent)

NIM = Net International Migration

Note: The exponential growth rate is calculated by taking the natural log of the annual percent change in the size of the total population for each group. Source: U.S. Census Bureau, 2008 and 2009.

Figure 4. Projections of the Exponential Growth Rate of the Non-Hispanic White Population by Projection Series: 2010 to 2050

(Percent)



NIM = Net International Migration

Note: The exponential growth rate is calculated by taking the natural log of the annual percent change in the size of the total population for each group. Source: U.S. Census Bureau, 2008 and 2009.

Table 2. Distribution of the Population by Race, Hispanic Origin, and Projection Series: 2010 to 2050					
(Percent of total resident population as of July 1)					
Race, Hispanic Origin,	2008 National 2009 Net International Migration Series				
and Year ^{1,2}	Projections	High	Low	Constant	Zero
One Race					
2010	98.2	98.2	98.2	98.2	98.2
2030	97.4	97.4	97.3	97.3	97.2
2050	96.3	96.4	96.3	96.1	95.8
White					
2010	79.5	79.4	79.6	79.7	80.1
2030	76.6	76.4	76.8	77.3	78.4
2050	74.0	73.7	74.3	75.2	76.5
Black					
2010	12.9	12.8	12.9	12.9	13.1
2030	13.0	12.9	13.1	13.2	13.8
2050	13.0	12.8	13.1	13.2	14.4
American Indian and					
Alaska Native					
2010	1.0	1.0	1.0	1.0	1.0
2030	1.2	1.1	1.2	1.2	1.2
2050	1.2	1.2	1.3	1.3	1.4
Asian	1.0				
2010	4.6	4.8	4.5	4.4	3.8
2030	6.3	6.7	6.0	5.4	3.7
2050	۲.۵	8.4	7.3	6.1	3.3
Native Hawaiian and					
Other Pacific Islander	0.0	0.0		0.0	
2010	0.2	0.2	0.2	0.2	0.2
2030	0.2	0.2	0.2	0.2	0.2
2050	0.3	0.3	0.3	0.3	0.2
I WO OF MORE Races	1 0	1 0	1 0	1 0	1 0
2010	1.0	1.0	1.0	1.0	1.0
2030	2.0	2.0	2.1	2.1	∠.0
2050	3.1	3.0	3.1	J.3	4.2
NON-RISPARIC WITTLE AIONE	64.7	64.4	65.0	65.2	67.0
2010	55 5	54.4	56.3	57 A	62.4
2050	46.3	45.0	17.6	ب . ۱۵ م	57.8
2000 Hispanic	40.5	40.0	47.0	4 3.3	51.0
2010	16.0	16.3	15.8	15.8	1/1 3
2010	23.0	23.7	22.3	21.8	17.0
2050	20.0	20.7	22.3	21.0	21.0
¹ Page refers to each of the race group	50.2	Joro Pacos catagony rop	Z3.Z	porting more than one ra	21.0
² Hispanica may be of any race		nore races calegory rep	resents the population re	porting more than one ra	ce.

² Hispanics may be of any race

Note: The original race data from Census 2000 are modified to eliminate the "some other race" category. This modification is used for all Census Bureau projections products and is explained in the document entitled "Modified Race Data Summary File Technical Documentation and ASCII Layout" that can be found on the Census Bureau website at http://www.census.gov/popest/archives/files/MRSF-01-US1.html.

Source: U.S. Census Bureau, 2008 and 2009.



Figure 5. Percent White Alone by Projection Series: 2010, 2030, and 2050













Table 3. Projected Median Age of the Population by Projection Series, Race, and Hispanic Origin: 2010 to 2050					
Race, Hispanic Origin,	2008 National 2009 Net International Migration Series				
and Year ^{1,2}	Projections	High	Low	Constant	Zero
Total Population					
2010	36.9	36.7	37.0	37.1	37.8
2030	38.7	38.4	39.0	39.2	40.8
2050	39.0	38.6	39.3	39.7	42.2
White					
2010	38.4	38.3	38.5	38.6	39.3
2030	39.6	39.3	39.9	40.4	42.1
2050	39.4	38.9	39.8	40.8	43.3
Black					
2010	31.7	31.7	31.8	31.8	32.0
2030	36.6	36.4	36.7	37.0	37.5
2050	38.9	38.6	39.1	39.9	40.8
American Indian and					
Alaska Native					
2010	29.9	29.9	30.0	30.0	30.3
2030	33.8	33.6	34.0	34.3	35.2
2050	34.9	34.6	35.1	35.7	36.6
Asian					
2010	36.0	35.7	36.2	35.9	38.0
2030	41.1	40.7	41.4	40.2	46.7
2050	43.4	43.1	43.8	42.3	50.8
Native Hawaiian and					
Other Pacific Islander					
2010	30.5	30.4	30.6	30.5	30.9
2030	35.1	34.8	35.2	35.0	36.8
2050	36.8	36.5	37.0	37.0	39.6
Two or More Races					
2010	19.9	19.9	19.9	19.9	19.9
2030	22.1	22.0	22.1	22.1	22.5
2050	24.7	24.6	24.8	24.9	25.5
Non-Hispanic White Alone					
2010	41.3	41.3	41.4	41.4	41.6
2030	43.7	43.6	43.8	43.9	44.4
2050	44.6	44.5	44.7	45.0	45.6
Hispanic					
2010	27.5	27.3	27.7	28.0	29.0
2030	29.2	28.9	29.5	30.5	32.7
2050	31.2	30.9	31.5	33.1	35.7
¹ Race refers to each of the race groups alone and the Two or More Races category represents the population reporting more than one race.					ce.
² Hispanics may be of any race.					

Note: The original race data from Census 2000 are modified to eliminate the "some other race" category. This modification is used for all Census Bureau projections products and is explained in the document entitled "Modified Race Data Summary File Technical Documentation and ASCII Layout" that can be found on the Census Bureau website at http://www.census.gov/popest/archives/files/MRSF-01-US1.html.

Source: U.S. Census Bureau, 2008 and 2009.

Table 4. Projections of the Majority-Minority ¹ Crossover by Net International Migration Series for the United States				
Series	Year			
2008 National Projections	2042			
2009 High Net International Migration Series	2040			
2009 Low Net International Migration Series	2045			
2009 Constant Net International Migration Series	2050			
¹ Minority is defined here as people who are races other than White alone or are Hispanic.				
Source: U.S. Census Bureau, 2008 and 2009.				



Figure 9. Projections of the Percent Minority for the United States: 2010 to 2050

Note: Minority is defined here as people who are races other than White alone or are Source: U.S. Census Bureau, 2008 and 2009.