

Projections of the Population of Texas and Counties in Texas by Age, Sex, and Race/Ethnicity for 2010-2050

Produced by:

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### Introduction

The projections of the population of Texas and each county were prepared by the staff at the Texas Demographic Center (hereafter referred to as TDC).

These projections, like all projections, involve the use of certain assumptions about future events that may or may not occur. Users of these projections should be aware that although the projections have been prepared with the use of detailed methodologies and with extensive attempts being made to account for existing demographic patterns, they may not accurately project the future population of the State or of particular counties in the State. These projections should be used only with full awareness of the inherent limitations of population projections in general and with particular and detailed knowledge of the procedures and assumptions delineated below which characterize the projections presented in this report.

The current projections are of the population of the State and of all counties in the State for each year from 2010 through 2050. They are by single years of age for ages 0 through 95 years of age and older for males and females in each of the following five race/ethnicity groups: non-Hispanic Whites, non-Hispanic Blacks, non-Hispanic Asians, Hispanics (of all races), and non-Hispanic Others (all other racial/ethnic groups). The total population is the sum of these five race/ethnicity groups with their sum for 2010 being equal to the 2010 census count for the State of Texas and for all counties in Texas.

This summary provides a relatively detailed description of the projection methodology and then discusses the bases and the assumptions used. It concludes with a description of the products available from the projection process.

# **Projection Methodology**

The projections were completed using a Cohort Component projection technique. As the name implies, the basic characteristics of this technique are the use of separate cohorts -- persons with one or more common characteristic -- and the separate projection of each of the major components of population change -- fertility, mortality, and migration -- for each of the cohorts. These projections of components for each cohort are then combined in the familiar demographic bookkeeping equation as follows:

$$P_{t_2} = P_{t_1} + B_{t_1 - t_2} - D_{t_1 - t_2} + M_{t_1 - t_2}$$

Where:  $P_{t_2}$  =the population projected at some future date  $t_1-t_2$  years hence

 $P_{t_1}$  = the population at the base year  $t_1$ 

 $B_{t_1-t_2}$  = the number of births that occur during the interval  $t_1-t_2$ 

 $D_{t_1-t_2}$  = the number of deaths that occur during the interval  $t_1-t_2$ 

 $M_{t_1-t_2}$  = the amount of net migration that takes place during the interval  $t_1-t_2$ 



When several cohorts are used,  $P_{t_2}$  may be seen as:

$$P_{t_2} = \sum_{i=1}^{n} P_{c_i,t_2}$$

Where:  $P_{t_2}$  is as in the equation above

 $P_{c_{\hat{v}}t_2}$  = population of a given cohort at time  $t_2$  and

$$P_{c_i,t_2} = P_{c_i,t_1} + B_{c_i,t_1-t_2} - D_{c_i,t_1-t_2} + M_{c_i,t_1-t_2}$$

Where: all terms are as noted above but are specific to given cohorts  $c_i$ 

In this, as in any other use of the Cohort Component technique at least four major steps must be completed:

- 1. The selection of a baseline set of cohorts for the projection area or areas of interest for the baseline time period (usually the last census and for other dates for which detailed base data are available);
- 2. The determination of appropriate baseline migration, mortality, and fertility measures for each cohort for the baseline time period;
- 3. The determination of a method for projecting trends in fertility, mortality, and migration rates over the projection period;
- 4. The selection of a computational procedure for applying the rates to the baseline cohorts to project the population for the projection period.

Each of these steps as performed for the current TDC projections are briefly discussed in the pages that follow.



### **Selection of Baseline Cohorts**

The baseline cohorts used in the projections are single-year-of-age cohorts for males and females of non-Hispanic White, non-Hispanic Black, Hispanic (of all races), non-Hispanic Asians, and non-Hispanic Other racial/ethnic groups extracted from the Summary File 1 of the 2010 Census of Population and Housing (US Bureau of the Census 2011). Population data from the 2010 Census were used as the starting base because they provide the latest complete count information available. The baseline population is shown in Appendix A.

The baseline populations for these projections consist of five mutually exclusive groups derived from these census categories: non-Hispanic White alone, non-Hispanic Black or African American alone, Hispanics of all races, non-Hispanic Asian alone, and persons in all other non-Hispanic race groups referred to as the Other population group. This last group (the Other population) also includes all persons identified as two or more races. The separation of the non-Hispanic Asian from the Other group is a new addition to the current 2018 TDC projections.

It is essential to note that the use of these population bases will result in some discontinuities with previous projections made by the program. The previous post 2000 projections utilized a somewhat different set of groupings in which multi-race groups were allocated to individual single race groups. This was necessary because the 2000 Census was the first to allow respondents to indicate that they were members of more than one race. As a result, single race groups for 1990 and 2000 were not directly comparable and any computation of fertility, mortality, or migration rates that did not adjust for this change in data collection procedures would have resulted in incorrect rates for the four major groups and to clearly fallacious projections. With the completion and release of 2010 data, there were appropriate data for the two adjoining decennial periods of 2000 and 2010, and thus in the projections presented here, direct census categories that did not require allocations have been used. This provides directly comparable values for 2000 to 2010 and directly comparable fertility, mortality, and migration rates for 2000 and 2010. The major change resulting from this is that the non-Hispanic Other category increases as a result of including two or more races in the category for both 2000 and 2010.

It was also necessary to adjust the base population for "special populations". Special populations are populations who reside in an area, usually in institutional settings, who do not generally experience the same demographic processes over time as the indigenous population in the area. Rather, they tend to come into and leave an area at fixed intervals. Examples of such populations are college, prison, military base, and other populations in institutional settings. Because their movement into and out of an area is a function of events (e.g., enrollment, graduation, incarceration) which are not determined by local socioeconomic conditions, special populations must be removed from the base populations of projection areas before birth, death, and migration rates are applied to the base population. If special populations of substantial size are not removed, they will create distortions in age and other characteristics of the population that will remain in the population through the cohort aging process and create inaccuracies in the projections. Therefor, special populations are generally removed from the cohort base, the base cohorts are projected forward, and a separate projection of the special population for the projection date is added to the projected base cohorts to obtain the projection of the total population.



In Texas, several continuing special population groups are especially large and must be removed from base populations. These are college and university populations, state prison populations, military populations, and populations in other state institutions. In the projections presented here, each of these groups was removed from the base population of the counties in which they are located by subtracting these special populations from the 2010 population reported in the Census for these counties. Since these special populations must be subtracted from base populations that are age, sex, and race/ethnicity specific, it was necessary to obtain age, sex, and racial/ethnic detail for the special populations. This was done for the college populations by obtaining information on college enrollment for each public college and university in the state for 2010 by age, sex, and race/ethnicity from the Texas Higher Education Coordinating Board. For prisons, information on the age, sex, and race/ethnicity of prisoners in each institution in 2010 was obtained from the Texas Department of Criminal Justice. For both college enrollments and prisons, the most recent projected values from the appropriate agencies (Texas Higher Education Coordinating Board and the Texas Department of Criminal Justice) for the periods after 2010 were incorporated in the projections. For other institutions, information on age, sex, and race/ethnicity were obtained from the group quarters data from the 2010 Census.

Given the distributions of the special populations by age, sex, and race/ethnicity, it was then possible to subtract the special populations from the baseline 2010 Census cohorts to obtain a baseline set of cohorts free from the influence of special populations. These procedures for baseline cohorts were completed for all counties in the State. However, following standard practice, special populations were removed from the base population only when they made up a significant portion of the population of the area. For counties with special populations of sufficient size, the baseline cohorts without special populations are projected forward and projections of special populations for the projection years are added to the projections for the baseline cohorts to obtain projections of the total population.

# **Determination of Baseline Fertility, Mortality, and Migration Rates**

### Fertility Rates

Baseline age-sex-race/ethnicity-specific fertility rates were computed using births by age, sex, and race/ethnicity and place of residence of the mother. The numerators for such rates are the average number of births for 2009, 2010, and 2011 for mothers in each age, sex, and race/ethnicity group, and the denominators are the population counts by age, sex, and race/ethnicity in 2010. Birth data to compute the rates were obtained from the Texas Department of State Health Services and data on females by age (10-49 years) and race/ethnicity were obtained from the 2010 Census of Population.

At the state level, these data showed total fertility rates for non-Hispanic Whites, non-Hispanic Blacks, Hispanics, non-Hispanic Asians, and the non-Hispanic Other race/ethnicity groups in 2010 that were 1.84, 1.85, 2.43, 1.86, and 1.84, respectively. There were clear signs of declines in fertility across the groups in recent years. Thus, fertility rates were linearly trended over the projection period from 2010 to 2050 toward targeted rates deemed to be reasonable on the basis of change in national patterns for such groups over time.



These targeted rates for 2050 were 1.81, 1.81, 2.14, 1.81, and 1.81 for non-Hispanic Whites, non-Hispanic Blacks, Hispanics, non-Hispanic Asians, and non-Hispanic Others, respectively. Baseline fertility rates by age and race/ethnicity for the State of Texas are provided in Appendix B-1.

At the county level, unrealistic fertility rates were observed in counties with small populations and among race/ethnicity groups with small populations. To reduce random noise in the data, counties were pulled into groups to calculate their fertility rates in 2010, based on their similarity in fertility patterns and their rural/urban status. The counties' trends in fertility from 2010 to 2050 were then projected by assuming that the county's future fertility would follow the state trend. Specifically, this involved computing a ratio between the age and race/ethnicity specific birth rate for each age and racial/ethnic group for each county and the comparable state age and race/ethnicity specific birth rate at the baseline. This ratio for each age and race/ethnicity specific birth rate for each county was then multiplied by the projected state rate for each of the projection years.

#### The Redistribution of Race/Ethnicity for Newborns

In our previous projections, and many other research that uses race-specific fertility rates to estimate or project the zero-age population, an assumption has been made that the race/ ethnicity of newborns is the same as their mother. This has been demonstrated to be a reasonable approach in the past at the population level, when the estimated births were compared to the zero year-old population in national surveys and the census counts. However, with the increase in inter-race and inter-ethnic marriage and the possibility of multi-race identification in census and more and more surveys, the discrepancy between the estimated race distribution of newborns based on their mothers' race and the race distribution of the zero year-old population observed in surveys has increased. Thus, an additional step to adjust the race distribution of the projected new cohort is necessary.

We used the IPUMs data to link children with their mothers and found a significant number of children whose reported race/ethnicity differed from their mothers. We calculated the race/ethnicity distribution of the children born to mothers of each of the five race/ethnicity groups used in our projection. The cross-tabulation of the mother-child race distribution is shown in Appendix B-2. We then applied these distributions to our projected births based on the race/ethnicity of the mothers.

Baseline Mortality Rates and Projection of Race/Ethnicity Specific Mortality

To obtain baseline mortality measures, survival rates by single years of age, for both sexes and for each of the racial/ethnic groups are needed. Survival rates for non-Hispanic Whites, non-Hispanic Blacks, Hispanics, non-Hispanic Asians, and non-Hispanic Others racial/ethnic categories were computed using death data from the Texas Department of State Health services for 2009, 2010, and 2011. Because there were no projections of detailed survival rates available for Texas for future dates and no adequate means of discerning how such rates would change using state data alone, projections made by the Census Bureau using national trends in mortality by age, sex, and race/ethnicity derived from analysis from the National Center for Health Statistics were used as the basis for projecting state rates.



This involved calculating the ratio of each state-level age, sex, and race/ethnicity specific survival rates for Texas to those for the same population subgroups in the nation in 2010, and then assuming that state age, sex, and race/ethnicity specific rates would remain at the ratios to national rates for 2010 but trend in the same manner as national projections of survival over time. Although this involves assuming no closure between Texas and national rates over time, it provides projections of survival rates for Texas that reflect expected patterns of change in mortality levels over time. These rates by age, sex, and race/ethnicity for the State of Texas in 2010 as a whole are shown in Appendix C. The projected national rates were obtained from the Population Projections Branch of the U.S. Bureau of the Census and reflect recent long-term projections of mortality (U.S. Bureau of the Census, 2014).

#### Migration Rates and Projections of Migration

For the Texas projections, net migration rates were derived using a standard residual migration formula. Thus, births and deaths by age, sex, and race/ethnicity cohort were added or subtracted (as appropriate) to the 2010 population to produce an expected 2015 population for each cohort. This expected population was compared to the 2015 Census Bureau population estimates to derive net migration for 2010-2015 and subsequently for later post-2010 time periods.

Migration is the most difficult component process to project. The approach most commonly used is one that assumes the observed historical patterns will hold true for the future. In a state like Texas, where population dynamics have been changing very rapidly, we believe the best approach would be utilizing the latest data available to project future patterns, with the understanding that some of the patterns may not hold farther along the projection horizon.

In our current projection, we used the 2010-2015 migration rates throughout our projection period. The state level migration rates used are shown in Appendix D. We continue to diligently observe the emerging demographic trends in Texas and will update our projections when new data are available.

#### Special Considerations in the Projection of Component Rates

The computation and projection of fertility and migration rates at the county level is sometimes problematic for counties with small population bases. Given the use of five racial/ethnic groups, two sexes, and 95 age groups, a total of 950 cells of data were employed for each county. In counties with small populations, in which either the baseline population used as the denominator to compute rates and/or the number of events used in the numerator (i.e., births or net migrants) was too small to produce reliable and reasonable rates, it was necessary to develop a means of obtaining more reasonable rates.

In calculating and projecting the mortality rates, we evaluated the benefits of using countyspecific mortality rates versus the state rates and determined that using the latter would yield more stable and reasonable results for the majority of the counties.



In review of our regression analyses, we concluded that rural-urban status is a significant predictor of age-specific fertility patterns. Therefore, we grouped the counties based on their rural-urban status to obtain a more reliable set of fertility rates for all the counties.

Migration rates are more variable across areas such that the use of grouped means may alter rates for rapidly and slow growing areas. We used detailed age-group-specific migration rates for larger counties and broader age-group-specific rates if the rates were problematic. For some of the smaller counties, we used a single county migration rate for all ages. For a small proportion of the counties and for certain race groups, these adjustments still yielded unlikely migration patterns, where we used the state age-specific migration rates in replacement. We then increased/decreased the total migration to the level specific to the county.

Another concern for using the historical rates is that it often resulted in substantially higher rates of net migration for one sex than the other. We made an effort in our previous projections to alter the rates to obtain a more balanced sex ratio in the future. However, further research showed a wide range of observed sex ratios among counties in the 2010 census, especially among counties with a small population of some race/ethnicity groups. Determining a "reasonable" range of sex ratios proved to be difficult. To best reflect current trends, we made limited adjustments to obtain a more balanced sex distribution in our projections.

#### Computation of Future Populations

Given the projected rates noted above, the computation of the projected population was completed using standard Cohort Component techniques as described above with all computations being completed on an individual year and age basis for each sex and racial/ ethnic group. Base population values for 2010 were used as the starting values and populations were projected for each year from 2011-2050. Because of the need to ensure that the sum of county projections produces reasonable future populations for the state as a whole, the state's future population by age, sex, and race/ethnicity was first independently projected. County base cohorts were projected to the projection date and projected special populations added to the projected base populations for the appropriate counties. Projected populations of colleges and universities for future years were projections produced by the Texas Higher Education Coordinating Board (2011), values for existing prison populations and correspondence concerning plans for future prison facilities were acquired as of August 2008 from the Texas Department of Criminal Justice. All other institutions were maintained at 2010 levels as indicated in the 2010 Census. The state-level projections were then used as control totals for the sum of county projections for each age, sex, and racial/ethnic group. The projections of the population of the state and of each county in the state produced and controlled as described are those provided here.

# **Limitations of the TDC Population Projections**

The Cohort Component methodology used by the TDC is the most commonly used method by the federal and state governments and by demographers to project future population. While the advantages are well documented by demography textbooks and researchers, there are limitations associated with the method and the process of projecting the components.



One limitation is that the formula used in the method is a deterministic function with the assumption that all the inputs, that is the base population, the births, the deaths, and the migrant population, are true without errors. Although projections of an area or a group with a small population size tend to be unreliable, there are no statistical measures available to indicate that. We do warn users of these projections to be cautious when interpreting and using projections of small populations. In these cases, we highly suggest the use of broader age groups, merging race groups, or shifting the geographic unit to a larger region.

There are limitations in our effort to project future rates of demographic components. A wide range of socio-economic, environmental, policy, technological, and other factors can affect future trajectories of fertility, mortality, and migration. Due to constraints in time, resources and data availability, we cannot take all of these factors into consideration. Our assumption is that the recent trends we observed were a result of a range of factors, and if these factors remain relatively stable, the demographic trends would continue into the future. Therefore, we expect that our projections will be more accurate in the near future and in areas that have not experienced unusual or rapid changes. We will continue observing the demographic trends in Texas and regularly update our projections in a timely manner.

## **Data Available from the Projections**

The data produced in the process of completing the projections presented here and the data summarizing the projections themselves are extensive. The amount of data available for the state and each of the 254 counties, for each year from 2010 through 2050, for each of 95 age groups, for two sexes, and five race/ethnicity groups is too voluminous to be provided in its entirety in printed form. Thus, data are provided in several different forms to address the needs of different user groups.

This publication describes the projection methodology and provides several appendices showing the base populations for the state for 2010, and the base rates for fertility, mortality, and migration for 2010 for the state. Due to the volume of data involved, rates for other years and areas can be provided only upon request.

Similarly, because of the volume of data, printed data are provided only upon request. The fully detailed projections of the population in each age, sex, and race/ethnicity group for each year from 2010 through 2050 are available in electronic forms for the state and all counties in the state.

All data are available free on the website provided above and may be requested in additional formats on a cost-recovery basis.

If you have any questions concerning these estimates, please contact:



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# **Appendices**

Appendix A: Baseline Population by Age, Sex, and Race/

Ethnicity for 2010 for the State of Texas

Appendix B-1: Baseline Fertility Rates per Person per Year by

Age and Race/Ethnicity for 2007-2010 for the

State of Texas

AppendixB-2: Baseline Mothers' Race/Ethnicity by Child's Race/

Ethnicity for the State of Texas

Appendix C: Baseline Survival Rates by Age, Sex, and Race/

Ethnicity for 2009-2010 for the State of Texas

Appendix D: Baseline Migration Rates per Person per Year by

Age Group, Sex, and Race/Ethnicity for 2010-

2015 for the State of Texas



# Appendix A

Baseline Population by Age, Sex, and Race/Ethnicity for 2010 for the State of Texas

Appendix A: Baseline Population by Age, Sex, and Race/Ethnicity for 2010 for the State of Texas

		Total		2	NH White		-	NH Black		н	Hispanics		Z	NH Asian		Z	NH Other	
Age	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
-	381,345	194,442	186,903	120,211	61,473	58,738	42,664	21,614	21,050	193,805	98,784	95,021	12,599	6,425	6,174	12,066	6,146	5,920
2	390,119	199,274	190,845	122,905	63,020	59,885	43,834	22,307	21,527	197,746	100,851	96,895	13,557	6,927	6,630	12,077	6,169	5,908
3	390,262	199,391	190,871	124,127	63,696	60,431	44,242	22,703	21,539	197,114	100,382	96,732	13,246	6,687	6,559	11,533	5,923	5,610
4	386,901	197,553	189,348	124,347	64,076	60,271	43,936	22,124	21,812	193,791	98,751	95,040	13,557	6,843	6,714	11,270	5,759	5,511
2	387,454	197,737	189,717	125,551	64,311	61,240	43,689	22,090	21,599	193,356	98,782	94,574	13,805	7,017	6,788	11,053	5,537	5,516
9	385,858	196,739	189,119	127,061	65,125	61,936	43,755	22,176	21,579	190,348	96,980	93,368	14,046	7,026	7,020	10,648	5,432	5,216
7	383,648	195,275	188,373	127,822	65,504	62,318	43,655	22,185	21,470	188,121	95,522	92,599	13,772	6,942	6,830	10,278	5,122	5,156
8	382,494	195,598	186,896	128,080	65,740	62,340	44,416	22,724	21,692	186,922	95,413	91,509	13,201	6,710	6,491	9,875	5,011	4,864
6	388,780	198,465	190,315	131,492	67,576	63,916	45,116	23,132	21,984	188,375	95,651	92,724	13,864	7,060	6,804	9,933	5,046	4,887
10	387,307	198,055	189,252	132,888	68,359	64,529	46,137	23,515	22,622	185,587	94,678	606'06	12,931	6,551	6,380	9,764	4,952	4,812
==	377,604	193,118	184,486	131,988	67,761	64,227	44,989	23,056	21,933	178,941	91,318	87,623	12,048	6,081	2,967	9,638	4,902	4,736
12	373,651	191,498	182,153	131,368	67,791	63,577	45,274	23,181	22,093	175,314	89,557	85,757	12,323	6,238	6,085	9,372	4,731	4,641
13	372,194	190,088	182,106	133,105	68,280	64,825	45,314	23,036	22,278	172,295	87,981	84,314	12,292	6,152	6,140	9,188	4,639	4,549
14	371,127	190,107	181,020	133,412	68,483	64,929	45,470	23,412	22,058	171,245	87,551	83,694	12,068	6,210	5,858	8,932	4,451	4,481
15	371,716	190,560	181,156	134,187	68,926	65,261	47,170	24,086	23,084	169,963	87,137	82,826	11,697	5,976	5,721	8,699	4,435	4,264
16	376,128	193,381	182,747	136,676	70,222	66,454	48,663	25,035	23,628	170,199	87,612	82,587	12,059	6,187	5,872	8,531	4,325	4,206
17	379,390	195,479	183,911	138,553	71,489	67,064	50,350	25,889	24,461	170,440	87,839	82,601	11,797	6,094	5,703	8,250	4,168	4,082
18	380,018	196,100	183,918	140,517	72,635	67,882	49,738	25,528	24,210	169,848	87,742	82,106	11,985	6,276	5,709	7,930	3,919	4,011
19	375,872	193,166	182,706	141,283	72,595	889'89	49,510	24,918	24,592	165,243	85,492	79,751	11,918	6,224	5,694	7,918	3,937	3,981
20	369,040	189,570	179,470	140,814	71,950	68,864	47,803	23,930	23,873	160,475	83,497	8/6,97	12,521	6,500	6,021	7,427	3,693	3,734
21	359,015	184,652	174,363	139,215	70,793	68,422	45,382	22,729	22,653	154,073	80,617	73,456	13,386	7,044	6,342	6,959	3,469	3,490
22	358,639	184,539	174,100	140,396	71,228	69,168	43,837	21,672	22,165	154,045	81,283	72,762	13,626	7,151	6,475	6,735	3,205	3,530
23	362,244	185,552	176,692	144,111	72,740	71,371	43,343	21,386	21,957	154,085	81,113	72,972	14,023	7,236	6,787	6,682	3,077	3,605
24	368,141	188,040	180,101	148,137	74,533	73,604	43,824	21,592	22,232	154,599	81,068	73,531	15,077	7,641	7,436	6,504	3,206	3,298
25	370,565	189,116	181,449	150,642	76,168	74,474	43,351	21,406	21,945	154,438	80,465	73,973	15,644	7,983	7,661	6,490	3,094	3,396
26	364,179	184,952	179,227	146,805	74,070	72,735	42,564	20,693	21,871	151,923	78,988	72,935	16,434	17.977	8,457	6,453	3,224	3,229
27	374,510	190,106	184,404	150,703	76,114	74,589	43,754	21,259	22,495	156,567	81,368	75,199	16,896	8,151	8,745	6,590	3,214	3,376
28	370,704	187,076	183,628	149,192	74,944	74,248	43,245	20,922	22,323	155,081	80,270	74,811	16,715	7,874	8,841	6,471	3,066	3,405
29	373,081	187,716	185,365	149,781	75,706	74,075	44,471	21,296	23,175	155,992	80,005	75,987	16,548	7,646	8,902	6,289	3,063	3,226
30	374,101	188,810	185,291	148,953	75,317	73,636	45,415	21,700	23,715	156,464	80,793	75,671	17,028	8,028	000'6	6,241	2,972	3,269
31	348,438	175,098	173,340	139,257	70,462	68,795	42,370	20,252	22,118	144,392	73,875	70,517	16,573	7,724	8,849	5,846	2,785	3,061

Appendix A, continued

		Total		Z	NH White		4	NH Black		Ŧ	Hispanics		Z	NH Asian		Z	NH Other	
Age	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
32	349,119	174,780	174,339	138,974	69,718	69,256	41,000	19,507	21,493	146,904	75,053	71,851	16,521	7,795	8,726	5,720	2,707	3,013
33	344,434	172,346	172,088	135,618	68,309	67,309	40,436	19,297	21,139	146,019	74,086	71,933	16,836	7,956	8,880	5,525	2,698	2,827
34	344,342	171,853	172,489	134,268	67,804	66,464	39,922	18,787	21,135	146,704	74,080	72,624	18,019	8,547	9,472	5,429	2,635	2,794
35	350,077	174,811	175,266	138,340	69,655	68,685	40,216	19,218	20,998	147,599	74,534	73,065	18,372	8,740	9,632	5,550	2,664	2,886
36	339,517	168,106	171,411	134,348	67,313	67,035	40,303	19,151	21,152	141,230	70,430	70,800	18,534	8,845	689'6	5,102	2,367	2,735
37	347,198	172,525	174,673	139,689	70,509	69,180	41,855	19,788	22,067	141,529	70,675	70,854	18,876	9,044	9,832	5,249	2,509	2,740
38	357,703	177,356	180,347	151,122	76,100	75,022	42,814	20,424	22,390	139,892	69,486	70,406	18,540	8,808	9,732	5,335	2,538	2,797
39	369,092	183,341	185,751	163,370	82,221	81,149	44,728	21,288	23,440	136,984	68,235	68,749	18,450	8,917	9,533	5,560	2,680	2,880
40	363,806	181,241	182,565	161,793	81,496	80,297	42,702	20,333	22,369	135,979	68,243	67,736	17,996	8,588	9,408	5,336	2,581	2,755
41	339,268	169,596	169,672	152,302	76,623	75,679	39,655	19,135	20,520	125,527	63,174	62,353	16,987	8,302	8,685	4,797	2,362	2,435
42	331,749	165,809	165,940	147,826	74,797	73,029	40,452	19,503	20,949	123,218	61,692	61,526	115,611	7,655	7,956	4,642	2,162	2,480
43	327,499	163,863	163,636	148,987	75,155	73,832	40,356	19,401	20,955	119,104	60,018	59,086	14,573	7,130	7,443	4,479	2,159	2,320
4	332,473	166,356	166,117	152,269	76,180	76,089	42,031	20,164	21,867	118,889	60,492	58,397	14,762	7,320	7,442	4,522	2,200	2,322
45	351,753	175,194	176,559	168,090	84,045	84,045	44,312	21,088	23,224	119,897	60,567	59,330	14,569	7,146	7,423	4,885	2,348	2,537
46	351,530	175,009	176,521	175,089	87,357	87,732	42,832	20,385	22,447	113,986	57,607	56,379	14,647	7,214	7,433	4,976	2,446	2,530
47	354,538	176,162	178,376	180,229	89,750	90,479	42,873	20,480	22,393	111,969	56,404	55,565	14,346	7,034	7,312	5,121	2,494	2,627
48	349,684	173,713	175,971	182,656	90,920	91,736	42,407	20,247	22,160	106,989	54,002	52,987	12,658	6,222	6,436	4,974	2,322	2,652
46	352,962	174,785	178,177	186,835	93,028	93,807	42,984	20,528	22,456	105,191	52,658	52,533	12,921	6,178	6,743	5,031	2,393	2,638
20	354,587	176,947	177,640	190,419	95,212	95,207	42,940	20,868	22,072	103,613	52,408	51,205	12,735	6,004	6,731	4,880	2,455	2,425
51	336,806	166,764	170,042	184,391	91,987	92,404	41,140	19,659	21,481	94,716	47,330	47,386	12,036	5,617	6,419	4,523	2,171	2,352
52	337,715	167,008	170,707	188,003	93,704	94,299	40,208	19,189	21,019	92,888	46,137	46,751	11,846	5,585	6,261	4,770	2,393	2,377
53	327,317	160,811	166,506	183,375	90,943	92,432	39,155	18,630	20,525	88,489	43,624	44,865	11,699	5,411	6,288	4,599	2,203	2,396
54	318,444	156,403	162,041	179,392	88,684	80,708	37,914	18,162	19,752	85,250	41,969	43,281	11,492	5,369	6,123	4,396	2,219	2,177
55	312,964	153,282	159,682	179,832	89,059	90,773	36,473	17,287	19,186	81,345	39,717	41,628	11,060	5,163	5,897	4,254	2,056	2,198
95	294,080	142,786	151,294	172,073	84,351	87,722	32,886	15,343	17,543	74,954	36,399	38,555	10,264	4,739	5,525	3,903	1,954	1,949
57	285,987	139,183	146,804	168,757	83,150	85,607	31,687	14,851	16,836	71,352	34,608	36,744	10,424	4,762	5,662	3,767	1,812	1,955
58	270,393	130,846	139,547	162,035	79,532	82,503	29,854	13,681	16,173	65,668	31,737	33,931	9,283	4,126	5,157	3,553	1,770	1,783
59	259,500	125,178	134,322	152,870	74,826	78,044	29,051	13,359	15,692	64,721	31,139	33,582	9,476	4,180	5,296	3,382	1,674	1,708
09	255,728	123,226	132,502	153,745	75,332	78,413	77,277	12,494	14,783	61,961	29,553	32,408	9,540	4,283	5,257	3,205	1,564	1,641
61	244,795	117,864	126,931	149,888	73,191	76,697	25,606	11,736	13,870	57,571	27,475	30,096	8,593	3,928	4,665	3,137	1,534	1,603

Appendix A, continued

4.6         7.04         Ade         France         7.04         France         7.04         Ade         France         7.04         Ade         France         7.04         Ade         France         7.04         Ade         France         7.04         1.1.2         7.24         5.24         7.04         4.1.2         3.04			Total		Z	NH White		4	NH Black		iii	Hispanics		Ż	NH Asian		N	NH Other	
1117-106 119, 213 11, 214, 214, 214, 214, 214, 214, 214,	Age	Total	Male	Female	Tota1	Male	Female	Total	Male	Female	Total	Male	Female	Total		Female	Total	Male	Female
187,064   187,178   124,355   156444   79,702   14,400   9,001   16,029   14,452   21,475   72,171   23,491	62	247,109	119,255	127,854	156,636	76,728	806'62	24,006	11,142	12,864	55,391	26,245	29,146	8,025	3,610	4,415	3,051	1,530	1,521
1870   1870   1871   1871   1871   1871   1870   1770   1870	63	240,071	115,718	124,353	156,443	76,741	79,702	21,430	9,801	11,629	51,929	24,454	27,475	7,251	3,254	3,997	3,018	1,468	1,550
189,295   9,0003   9,0292   119,733   5,1901   6,1832   1,156   7,173   9,175   9,180   9,18	64	187,064	89,757	97,307	115,149	56,444	58,705	17,796	8,005	9,791	45,540	21,239	24,301	6,351	2,962	3,389	2,228	1,107	1,121
18,176   18,175   18,175   18,174   18,174   18,175   18,080   18,084   18,046   18,046   18,046   18,046   18,047   1	65	189,295	90,003	99,292	119,733	57,901	61,832	17,562	7,737	9,825	43,511	20,390	23,121	6,264	2,911	3,353	2,225	1,064	1,161
117568 81232 92311 115972 56972 59900 15600 6993 8697 3666 16664 20,005 5334 2,435 2,791 1,11 11708 74,038 8288 18,746 96,689 84,989 84,980 18,989 18,989 14,180 14,180 14,181 1,180 2,282 2,792 1,11 1171,181 80,001 69272 81,989 84,980 12,23 5,226 7,027 2991 14,186 13,398 44,48 2,102 2,343 1,11 115,472 86,989 60,091 69273 81,989 16,989 4,586 1,220 2,991 13,491 14,161 15,002 2,494 1,170 1,180 2,494 1,170 1,180 2,494 1,170 1,180 2,494 1,170 1,180 2,494 1,170 1,180 2,494 1,170 1,180 2,494 1,170 1,180 2,494 1,180 1,180 1,180 1,180 1,180 1,180 1,180 1,180 1,180 1,180 1,180 1,180 1,180 1,180 1,180 1,180 1,1	99	183,767	87,152	96,615	120,421	58,274	62,147	16,120	7,060	090'6	39,640	18,246	21,394	5,494	2,539	2,955	2,092	1,033	1,059
117,088 14,203 82,865 103,429 40,929 53,490 11952 6096 7857 33,088 15,001 18,002 18,002 4481 2,002 2,555 11,141,044 68,686 878,146 96,668 14,929 50,401 13,022 54,002 11,029 11,029 11,029 11,030 11,0	19	175,566	83,253	92,313	115,972	56,072	59,900	15,600	6,993	8,607	36,669	16,664	20,005	5,334	2,543	2,791	1,991	981	1,010
147,404         68,658         7,874         96,608         4,587         3,0621         1,128         5,669         7,620         314,90         14,134         4,448         2,105         2,343           117,328         64,010         3,372         89,567         4,2478         4,108         1,125         5,250         1,027         2,991         1,136         1,214         4,171         1,965         2,906           113,438         6,001         3,534         6,1364         1,048         4,805         6,138         2,447         4,171         1,965         2,966           115,473         2,228         6,034         7,134         4,108         3,986         6,138         2,497         1,171	89	157,068	74,203	82,865	103,429	49,939	53,490	13,953	960'9	7,857	33,088	15,003	18,085	4,817	2,262	2,555	1,781	903	878
113-738 64,010 73,372 89,57 42,478 47,089 11,253 52.26 7,027 29,911 13,637 16,274 41,11 1,955 2,206 1,11 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1	69	147,404	68,658	78,746	809'96	45,987	50,621	13,289	5,669	7,620	31,490	14,156	17,334	4,448	2,105	2,343	1,569	741	828
119,618 60,091 69,727 85,988 40,82 45,306 11,018 4,800 6,198 27,44 12,146 15,082 3,794 1,776 2,018 1,14,14 1,14 1,14 1,14 1,14 1,14 1,	70	137,382	64,010	73,372	89,567	42,478	47,089	12,253	5,226	7,027	29,911	13,637	16,274	4,171	1,965	2,206	1,480	704	176
115,473 5,528 6,7354 6,7354 8,2480 4,3684 10,493 4,355 6,138 26,773 11,751 15,022 3,546 1,704 1,842 1,104 11,114,115 5,2,238 6,2,945 76,158 3,5,40 4,0618 9,988 4,085 5,903 24,946 10,227 13,876 2,971 13,122 2,941 1,767 1,105 1,105 2,924 13,122 2,924 1,105 1,105 2,924 2,924 2,9	71	129,618	60,091	69,527	85,998	40,692	45,306	11,058	4,860	6,198	27,454	12,146	15,308	3,794	1,776	2,018	1,314	617	169
111, 241 5 15, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2	72	124,292	56,938	67,354	82,180	38,496	43,684	10,493	4355	6,138	26,773	11,751	15,022	3,546	1,704	1,842	1,300	632	899
111, 11, 11, 11, 11, 11, 11, 11, 11, 11	73	115,473	52,528	62,945	76,158	35,540	40,618	886'6	4,085	5,903	24,936	10,885	14,051	3,240	1,475	1,765	1,151	543	809
108,852         48,688         60,244         72,907         33,247         39,660         9,326         3,534         2,534         2,536         2,534         1,512         2,584         1,512         2,584         1,522         1,362           98,115         43,338         54,737         66,067         29,843         36,224         8,390         3,535         5,035         5,035         2,0431         8,111         11,720         2,584         13,26           94,054         40,822         53,232         64,277         28,684         35,593         8,035         2,0431         8,711         11,720         2,544         13,26           8,6331         36,807         49,664         60,050         26,223         33,827         6,626         2,494         4,132         17,213         1,100         1,899         1,000         1,669         1,000         1,000         1,10	74	112,391	50,298	62,093	74,802	34,477	40,325	9,401	3,779	5,622	24,103	10,227	13,876	2,957	1,294	1,663	1,128	521	209
98,115         43,328         54,575         66,067         29,843         36,224         8,390         33,55         5,035         20,431         8,111         11,720         23,64         10,03         13,26           94,054         40,822         53,232         64,277         28,684         35,593         8,055         3,075         4,980         18,663         7,735         10,228         2,020         95         1,20           86,531         36,867         49,772         5,618         6,78         2,474         4,121         16,617         16,644         1,82         1,721         1,62         1,644         1,82         1,644         1,82         1,721         1,644         1,82         1,644         1,121         1,671         6,69         1,064         1,82         1,044         1,121         1,671         1,620         2,494         4,132         1,721         1,671         1,82         2,494         4,132         1,721         1,671         2,448         2,227         4,111         1,671         2,448         3,272         4,121         1,671         3,694         4,413         3,721         8,712         3,694         1,4433         3,721         8,113         4,411         1,418 <t< td=""><td>7.5</td><td>108,852</td><td>48,608</td><td>60,244</td><td>72,907</td><td>33,247</td><td>39,660</td><td>9,326</td><td>3,792</td><td>5,534</td><td>23,076</td><td>9,924</td><td>13,152</td><td>2,584</td><td>1,222</td><td>1,362</td><td>656</td><td>423</td><td>536</td></t<>	7.5	108,852	48,608	60,244	72,907	33,247	39,660	9,326	3,792	5,534	23,076	9,924	13,152	2,584	1,222	1,362	656	423	536
9,054         40,024         53,232         64,277         28,684         35,593         8,055         3,075         4,980         18,663         7,735         10,928         2,202         920         12,00           86,593         38,873         50,818         61,765         27,416         34,349         6,978         2,677         4,301         18,300         7,656         10,644         1,822         7,923         1,904           86,531         36,867         49,664         60,020         26,223         33,827         6,626         2,494         4,132         17,131         7,053         10,600         1,896         7,996         1,996         3,694         14,433         5,721         1,999         7,994         1,121         1,413         7,912         1,121         1,121         1,413         3,722         1,121         1,413         3,722         1,121         1,413         3,721         1,121         1,413         3,524         1,423         3,322         1,414         3,523         1,413         3,644         1,413         3,422         1,414         1,433         5,721         1,121         1,414         3,523         1,414         3,524         1,121         1,414         3,523         1,414 <td>9/</td> <td>98,115</td> <td>43,358</td> <td>54,757</td> <td>66,067</td> <td>29,843</td> <td>36,224</td> <td>8,390</td> <td>3,355</td> <td>5,035</td> <td>20,431</td> <td>8,711</td> <td>11,720</td> <td>2,364</td> <td>1,038</td> <td>1,326</td> <td>863</td> <td>411</td> <td>452</td>	9/	98,115	43,358	54,757	66,067	29,843	36,224	8,390	3,355	5,035	20,431	8,711	11,720	2,364	1,038	1,326	863	411	452
86,633 38,875 50,818 61,765 27,416 34,349 6,978 2,677 4,301 18,300 7,656 10,644 1,852 788 1,064 86,531 36,867 49,664 60,050 26,233 33,827 6,626 2,494 4,132 7,031 10,160 1,899 779 1,120 82,623 34,296 48,333 57,112 24,310 32,802 6,448 2,327 4,121 16,671 6,669 10,002 16,899 779 1,120 82,623 24,296 48,333 57,112 24,310 32,802 6,448 2,327 4,121 16,671 6,669 10,002 16,899 779 1,120 88,433 27,318 41,135 48,157 19,620 28,337 5,065 1,733 3,322 13,452 5,239 8,213 12,008 490 718 88,433 27,318 41,135 48,157 19,620 28,337 5,065 1,733 3,322 13,442 5,239 8,213 12,008 490 718 88,433 27,318 41,135 48,157 19,620 28,337 5,065 1,733 3,322 13,442 5,239 8,213 12,008 490 718 88,433 22,038 38,692 43,712 27,264 4,641 1,78 3,063 12,136 4,775 7,361 11,21 4,24 697 88,433 19,658 33,607 38,518 14,380 24,138 3,870 12,44 2,626 9,714 3,592 6,122 772 29,4 478 88,433 16,847 29,548 34,023 12,336 21,687 2,442 8,12 1,224 8,108 3,124 4,974 658 22,138 12,240 14,432 12,240 14,432 12,240 14,818 2,241 14,818 2,242 14,120 14,418 14,418 14,418 14,419 14,411 14,410 14,411 14	11	94,054	40,822	53,232	64,277	28,684	35,593	8,055	3,075	4,980	18,663	7,735	10,928	2,202	952	1,250	857	376	481
86,531         36,867         49,644         60,020         26,223         33,827         6,626         2,494         4,132         17,213         7,053         10,160         1,899         779         1,120           82,629         34,266         48,333         57,112         24,310         32,802         6,448         2,327         4,121         16,611         6,669         10,002         1,689         70         1120           74,181         30,409         43,772         52,163         21,884         30,279         5,669         1,733         5,721         8,712         1312         559         70         98           68,453         27,318         41,135         21,884         30,279         5,669         1,733         5,332         13,452         5,721         8,712         15,89         70         189           68,453         27,318         41,138         23,464         4,641         1,738         3,662         1,443         5,721         8,712         1,218         4,717         1,443         5,721         8,712         1,218         4,61         1,738         3,662         1,738         3,603         1,244         2,629         1,443         3,724         4,014         2,62	78	89,693	38,875	50,818	61,765	27,416	34,349	8/6'9	2,677	4,301	18,300	7,656	10,644	1,852	788	1,064	798	338	460
82,629 34,296 48,333 57,112 24,310 32,802 6,448 2,327 4,121 16,671 6,669 10,002 1,689 700 989  74,181 30,409 43,772 52,163 21,884 30,279 5,690 1,996 3,694 14,433 5,721 8,712 1,312 553 759  68,433 27,318 41,135 48,177 19,620 28,337 5,065 1,733 3,332 13,452 5,239 8,213 1,208 490 718  68,433 27,318 41,135 48,177 19,620 28,337 5,065 1,738 3,063 10,7185 4,775 7,361 1,121 4,24 697  58,283 22,038 36,244 41,791 16,073 25,718 4,511 1,578 3,063 10,7185 4,061 6,724 938 351 587  58,283 22,038 36,245 34,023 12,336 12,38 24,138 3,870 12,44 2,626 9,714 3,592 6,122 772 294 478  46,395 16,847 29,548 34,023 12,336 12,818 2,945 883 2,060 6,994 2,688 4,306 858 242 346  40,442 14,530 25,902 29,630 10,612 19,018 2,945 883 2,060 6,994 2,688 4,306 888 242 346  29,461 9,798 19,663 22,219 7,361 14,858 2,051 611 14,40 4,612 1,615 2,997 3,92 146 246  24,002 7,740 16,286 17,795 5,733 12,062 1,916 543 1,373 3,800 12,98 2,512 1,810 2,19 8,81 1,810	62	86,531	36,867	49,664	60,050	26,223	33,827	6,626	2,494	4,132	17,213	7,053	10,160	1,899	179	1,120	743	318	425
74,181         30,409         43,772         52,163         1,184         30,409         43,772         52,163         1,184         30,279         5,690         1,996         3,694         14,433         5,721         8,712         1,312         533         739           68,453         27,318         41,135         48,157         19,620         28,337         5,063         1,733         3,332         13,452         5,239         8,213         1,208         4,775         7361         1,121         424         671           58,283         22,038         38,692         45,236         17,972         27,264         4,641         1,78         3,063         10,785         4,775         7361         1,121         424         67           58,283         22,038         36,245         41,791         16,073         25,718         4,312         1,286         9,714         3,592         6,122         772         294         478           58,283         23,607         38,518         14,380         24,138         3,574         1,244         2,656         9,714         3,592         6,122         772         294         478           46,396         15,847         25,630         20,630 <td>80</td> <td>82,629</td> <td>34,296</td> <td>48,333</td> <td>57,112</td> <td>24,310</td> <td>32,802</td> <td>6,448</td> <td>2,327</td> <td>4,121</td> <td>16,671</td> <td>699'9</td> <td>10,002</td> <td>1,689</td> <td>700</td> <td>686</td> <td>709</td> <td>290</td> <td>419</td>	80	82,629	34,296	48,333	57,112	24,310	32,802	6,448	2,327	4,121	16,671	699'9	10,002	1,689	700	686	709	290	419
68,453         27,318         41,135         48,157         19,620         28,537         5,065         1,345         5,332         13,452         5,239         8,213         12,08         490         718           63,660         24,968         38,692         45,236         17,264         4,641         1,578         3,063         12,136         4,775         7,361         1,121         424         697           58,283         22,038         36,245         41,791         16,073         25,718         4,312         1,282         2,930         10,785         4,061         6,724         938         31         887           53,265         19,658         33,607         38,518         14,380         24,138         3,870         12,44         2,626         9,714         3,592         6,122         772         294         478           46,395         16,847         29,548         14,380         24,138         3,254         991         2,263         6,994         4,974         6,58         4,974         4,974         4,974         4,974         4,974         4,974         4,974         4,974         4,974         4,974         4,974         4,974         4,974         4,974         4,974 <td>81</td> <td>74,181</td> <td>30,409</td> <td>43,772</td> <td>52,163</td> <td>21,884</td> <td>30,279</td> <td>2,690</td> <td>1,996</td> <td>3,694</td> <td>14,433</td> <td>5,721</td> <td>8,712</td> <td>1,312</td> <td>553</td> <td>759</td> <td>583</td> <td>255</td> <td>328</td>	81	74,181	30,409	43,772	52,163	21,884	30,279	2,690	1,996	3,694	14,433	5,721	8,712	1,312	553	759	583	255	328
63,660         24,968         38,692         45,236         17,972         27,264         4,641         1,578         3,063         12,136         4,775         7,361         1,121         424         697           58,283         22,038         36,245         41,791         16,073         25,718         4,312         1,382         2,930         10,785         4,061         6,724         938         351         587           53,265         19,658         33,607         38,518         14,380         24,138         3,870         1,244         2,626         9,714         3,592         6,122         772         294         478           46,395         16,847         29,548         34,023         12,386         21,687         3,254         991         2,263         8,108         4,974         658         253         405           46,395         16,847         29,548         10,612         19,018         2,945         885         2,060         6,994         2,688         4,974         658         253         405           40,443         12,240         23,708         26,890         9,224         17,666         2,452         702         1,750         2,997         2,997	82	68,453	27,318	41,135	48,157	19,620	28,537	5,065	1,733	3,332	13,452	5,239	8,213	1,208	490	718	571	236	335
58,283         22,038         36,245         41,791         16,073         25,718         4,312         1,382         2,930         10,785         4,061         6,724         938         351         587           53,265         19,658         33,607         38,518         14,380         24,138         3,870         12,44         2,626         9,714         3,592         6,122         772         294         478           46,395         16,847         29,548         34,023         10,612         19,018         2,263         8,108         4,974         658         4,97           40,432         14,530         25,902         29,630         10,612         19,018         2,945         885         2,060         6,994         2,688         4,306         58         242         346           35,948         12,240         23,708         26,890         9,224         17,666         2,452         702         1,750         5,940         2,079         3,861         4,8         246         246         2,997         3,861         4,8         246         246         2,997         2,997         3,8         1,7         24,0         2,542         1,6         2,5         2,5         2,5	83	63,660	24,968	38,692	45,236	17,972	27,264	4,641	1,578	3,063	12,136	4,775	7,361	1,121	424	269	526	219	307
53,26519,65833,60738,51814,38024,1383,8701,2442,6269,7143,5926,1227722944/7846,39516,84729,54834,02312,33621,6873,2549912,2638,1083,1344,97465825340540,43214,53025,90229,63010,61219,0182,9458852,0606,9942,6884,30658824234629,4619,79819,66322,2197,36114,8582,0516111,4404,6121,6152,99739214624624,0267,74016,28617,7795,73312,0621,9165431,5782,5123321,6802126914318,0215,45512,56613,7474,1459,6021,4313731,0582,5121,68021269143	84	58,283	22,038	36,245	41,791	16,073	25,718	4,312	1,382	2,930	10,785	4,061	6,724	938	351	587	457	171	286
46,39516,84729,54834,02312,33621,6873,2549912,2638,1083,1344,97465825340540,43214,53025,90229,63010,61219,0182,9458852,0606,9942,6884,30658824234635,94812,24023,70826,8909,22417,6662,4527021,7505,9402,0793,86143815728129,4619,79819,66322,2197,36114,8582,0516111,4404,6121,6152,99739214624624,0267,74016,28617,7955,73312,0621,9165431,3733,8601,2982,56229912217718,0215,45512,56613,7474,1459,6021,4313731,0582,5128321,68021269143	85	53,265	19,658	33,607	38,518	14,380	24,138	3,870	1,244	2,626	9,714	3,592	6,122	772	294	478	391	148	243
40,432         14,530         25,902         29,630         10,612         19,018         2,945         885         2,060         6,994         2,688         4,306         58         242         346           35,948         12,240         23,708         26,890         9,224         17,666         2,452         702         1,750         5,940         2,079         3,861         438         157         281           29,461         9,798         19,663         22,219         7,361         14,858         2,051         611         1,440         4,612         1,615         2,997         392         146         246           24,026         7,740         16,286         17,795         5,733         12,062         1,916         543         1,373         3,860         1,298         2,562         299         122         177           18,021         5,455         12,566         13,747         4,145         9,602         1,431         373         1,058         2,512         832         1,680         212         69         143	98	46,395	16,847	29,548	34,023	12,336	21,687	3,254	991	2,263	8,108	3,134	4,974	658	253	405	352	133	219
35,948         12,240         23,708         26,890         9,224         17,666         2,452         702         1,750         5,940         2,079         3,861         438         157         281           29,461         9,798         19,663         22,219         7,361         14,858         2,051         611         1,440         4,612         1,615         2,997         392         146         246           24,026         7,740         16,286         17,795         5,733         12,062         1,916         543         1,373         3,860         1,298         2,562         299         122         177           18,021         5,455         12,566         13,747         4,145         9,602         1,431         373         1,058         2,512         832         1,680         212         69         143	87	40,432	14,530	25,902	29,630	10,612	19,018	2,945	885	2,060	6,994	2,688	4,306	588	242	346	275	103	172
29,461     9,798     19,663     22,219     7,361     14,858     2,051     611     1,440     4,612     1,615     2,997     392     146     246       24,026     7,740     16,286     17,795     5,733     12,062     1,916     543     1,373     3,860     1,298     2,562     299     122     177       18,021     5,455     12,566     13,747     4,145     9,602     1,431     373     1,058     2,512     832     1,680     212     69     143	88	35,948	12,240	23,708	26,890	9,224	17,666	2,452	702	1,750	5,940	2,079	3,861	438	157	281	228	78	150
24,026     7,740     16,286     17,795     5,733     12,062     1,916     543     1,373     3,860     1,298     2,562     299     122     177       18,021     5,455     12,566     13,747     4,145     9,602     1,431     373     1,058     2,512     832     1,680     212     69     143	68	29,461	862'6	19,663	22,219	7,361	14,858	2,051	611	1,440	4,612	1,615	2,997	392	146	246	187	65	122
18,021 5,455 12,566 13,747 4,145 9,602 1,431 373 1,058 2,512 832 1,680 212 69 143	06	24,026	7,740	16,286	17,795	5,733	12,062	1,916	543	1,373	3,860	1,298	2,562	299	122	177	156	44	112
	91	18,021	5,455	12,566	13,747	4,145	9,602	1,431	373	1,058	2,512	832	1,680	212	69	143	119	36	83

Appendix A, continued

		Total		N	NH White		~	NH Black		H	Hispanics		Z	NH Asian		Z	NH Other	
Age	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male Female	emale
92	14,654	4,260	10,394	11,182	3,178	8,004	1,114	286	828	2,059	681	1,378	188	71	117	111	4	19
93	11,326	3,086	8,240	8,682	2,332	6,350	889	219	0.09	1,547	468	1,079	123	40	83	85	27	58
94	8,813	2,316	6,497	6,595	1,681	4,914	742	182	260	1,298	400	868	117	37	80	61	16	45
95	22,838	5,041	17,797	16,391	3,392	12,999	2,462	517	1,945	3,542	993	2,549	280	88	192	163	51	112
35	14,654	4,260	10,394	11,182	3,178	8,004	1,114	286	828	2,059	681	1,378	188	71	117	Ξ	44	19
93	11,326	3,086	8,240	8,682	2,332	6,350	889	219	0.09	1,547	468	1,079	123	40	83	85	27	58
94	8,813	2,316	6,497	6,595	1,681	4,914	742	182	260	1,298	400	868	117	37	80	61	16	45
95+	22,838	5,041	17,797	16,391	3,392	12,999	2,462	517	1,945	3,542	993	2,549	280	88	192	163	51	112
Total Population	Total 24,765,715 12,278,791 12,486,924	12,278,791	12,486,924	11,278,457 5,571,453 5,707,004	5,571,453	5,707,004	2,844,956 1,371,301 1,473,655	1,371,301	1,473,655	9,266,706 4,665,264 4,601,442	4,665,264	4,601,442	935,830	454,405	935,830 454,405 481,425	439,766	439,766 216,368 223,398	398



# Appendix B-1

Baseline Fertility Rates per Person per Year by Age and Race/Ethnicity for 2007-2010 for the State of Texas

Appendix B-1: Baseline Fertility Rates per Person per Year by Age and Race/Ethnicity for 2007-2010 for the State of Texas

Age	NH White	NH Black	Hispanics	NH Asian	NH Other
11	0.00000735	0.00001470	0.00001076	0.00000770	0.00003344
12	0.00000519	0.00007297	0.00006230	0.00001380	0.00022503
13	0.00013740	0.00107104	0.00083491	0.00005629	0.00008113
14	0.00085357	0.00428302	0.00475747	0.00023602	0.00263560
15	0.00380638	0.01229195	0.01750292	0.00126876	0.00631844
16	0.01095600	0.02571005	0.04076934	0.00311976	0.01588231
17	0.02314413	0.04273540	0.06947190	0.00557592	0.02694311
18	0.04324713	0.07190640	0.09813791	0.00877889	0.04435053
19	0.06565837	0.10154922	0.12672435	0.01566152	0.06396779
20	0.07662362	0.12124763	0.13631903	0.02422566	0.07462375
21	0.08181949	0.12695197	0.14278667	0.02915811	0.08618598
22	0.08713251	0.12311349	0.14268440	0.03629952	0.09252797
23	0.08890343	0.11853788	0.14097749	0.04766831	0.08507466
24	0.09080030	0.11029853	0.13583700	0.05870779	0.10015597
25	0.09670736	0.10411531	0.13454954	0.07530133	0.09204923
26	0.10672989	0.10119467	0.13285364	0.08836313	0.09932445
27	0.11048561	0.09263971	0.12558998	0.10849614	0.10166816
28	0.11536949	0.09238573	0.12022585	0.12545850	0.09624990
29	0.11435188	0.08462052	0.11343951	0.13978052	0.10490820
30	0.11006527	0.07633053	0.10522096	0.14559385	0.09912519
31	0.10883363	0.07195787	0.10306688	0.14913291	0.10200266
32	0.09631511	0.06585921	0.09257189	0.14232256	0.08684635
33	0.08580434	0.05835923	0.08251416	0.13253662	0.08316069
34	0.07586643	0.05089473	0.07365871	0.10775899	0.07899129
35	0.06243845	0.04609797	0.06337740	0.09864839	0.06253411
36	0.05075703	0.03713427	0.05497389	0.08436920	0.05816000
37	0.03973190	0.02909223	0.04423389	0.06422860	0.04943334
38	0.03074124	0.02476985	0.03624433	0.05284849	0.03615452
39	0.02243613	0.01903827	0.02824983	0.03901346	0.02755183
40	0.01613364	0.01370828	0.02090109	0.02777514	0.02009436
41	0.01140772	0.00944379	0.01520588	0.01882448	0.01788494
42	0.00704241	0.00615667	0.00952096	0.01242519	0.00982193
43	0.00402579	0.00396991	0.00594104	0.00719806	0.00540873
44	0.00236724	0.00191692	0.00300288	0.00380852	0.00445041
45	0.00114223	0.00113848	0.00141956	0.00260760	0.00247305
46	0.00055651	0.00061767	0.00076365	0.00120904	0.00116701
47	0.00032085	0.00043197	0.00028844	0.00103996	0.00070245
48	0.00017621	0.00014551	0.00021351	0.00026853	0.00041750
49	0.00009143	0.00014359	0.00004188	0.00020504	0.00040585



# Appendix B-2

Baseline Mothers' Race/Ethnicity by Child's Race/Ethnicity for the State of Texas

Appendix B-2: Baseline Mothers' Race/Ethnicity by Child's Race/Ethnicity for the State of Texas

		Mother'	s Race/Ethnicit	у	
Child's Race	NH White	NH Black	Hispanics	NH Asian	NH Other
NH Black	0.009428	0.951229	0.0041	0.006587	0.059611
Hispanics	0.087279	0.018477	0.963978	0.033374	0.166567
NH Asian	0.00242	0.000163	0.000356	0.826277	0.015561
NH Other	0.034339	0.025302	0.003279	0.108042	0.598483



# Appendix C

Baseline Survival Rates by Age, Sex, and Race/Ethnicity for 2009-2010 for the State of Texas

Appendix C: Baseline Survival Rates by Age, Sex, and Race/Ethnicity for 2009-2010 for the State of Texas

	NH	White	NHI	Black	Hisp	anics	NH A	Asian	NH	Other
Age	Male	Female								
1	0.999502	0.999582	0.999167	0.999333	0.999591	0.999622	0.999719	0.999706	0.999334	0.999458
2	0.999607	0.999708	0.999371	0.999464	0.999678	0.999729	0.999739	0.999799	0.999489	0.999586
3	0.999648	0.999759	0.999564	0.999626	0.999738	0.999799	0.999849	0.999849	0.999606	0.999692
4	0.999738	0.999819	0.999594	0.999747	0.999789	0.999839	0.99993	0.99992	0.999666	0.999783
5	0.999798	0.999849	0.999685	0.999717	0.999849	0.999859	0.99992	0.99993	0.999742	0.999783
6	0.999849	0.999879	0.999746	0.999767	0.999889	0.999889	0.99993	0.99993	0.999797	0.999823
7	0.999879	0.999909	0.999756	0.999889	0.999889	0.999889	0.99993	0.99993	0.999818	0.999899
8	0.999869	0.999899	0.999797	0.999878	0.999899	0.999889	0.99993	0.99993	0.999833	0.999889
9	0.999879	0.99993	0.999868	0.999838	0.999899	0.999889	0.99993	0.99993	0.999873	0.999884
10	0.999879	0.99993	0.999827	0.999848	0.999909	0.999909	0.99993	0.99992	0.999853	0.999889
11	0.999849	0.999919	0.999756	0.999889	0.999889	0.999909	0.999839	0.99993	0.999802	0.999904
12	0.999829	0.999869	0.999786	0.999838	0.999869	0.999909	0.999839	0.99992	0.999807	0.999853
13	0.999818	0.999839	0.999807	0.999757	0.999839	0.999899	0.999839	0.999839	0.999813	0.999798
14	0.999788	0.999819	0.999746	0.999747	0.999798	0.999859	0.99992	0.999839	0.999767	0.999783
15	0.999707	0.999778	0.999684	0.999736	0.999748	0.999829	0.99992	0.99991	0.999696	0.999757
16	0.999556	0.999718	0.999532	0.999746	0.999617	0.999799	0.999829	0.99992	0.999544	0.999732
17	0.999404	0.999637	0.999328	0.999746	0.999415	0.999748	0.999759	0.999739	0.999366	0.999692
18	0.999151	0.999597	0.999144	0.999675	0.999152	0.999708	0.999749	0.999739	0.999147	0.999636
19	0.998837	0.999546	0.998847	0.999624	0.998959	0.999647	0.999759	0.999829	0.998842	0.999585
20	0.998724	0.999465	0.99859	0.999543	0.998918	0.999627	0.999537	0.999829	0.998657	0.999504
21	0.99855	0.999435	0.998476	0.999401	0.998846	0.999597	0.999265	0.999759	0.998513	0.999418
22	0.998447	0.999434	0.998525	0.999258	0.998794	0.999566	0.999154	0.999688	0.998486	0.999346
23	0.998556	0.999484	0.998492	0.999349	0.998782	0.999576	0.999375	0.999698	0.998524	0.999417
24	0.998585	0.999423	0.998346	0.999349	0.99874	0.999535	0.999526	0.999789	0.998465	0.999386
25	0.998521	0.999403	0.998353	0.999185	0.998769	0.999515	0.999556	0.999799	0.998437	0.999294
26	0.998509	0.999433	0.998216	0.999134	0.99889	0.999586	0.999556	0.999758	0.998363	0.999283
27	0.998568	0.999402	0.998162	0.999235	0.998899	0.999575	0.999263	0.999768	0.998365	0.999319
28	0.998617	0.999371	0.99822	0.999214	0.998816	0.999525	0.999252	0.999829	0.998419	0.999293
29	0.998462	0.9993	0.998134	0.999101	0.998804	0.999534	0.999484	0.999889	0.998298	0.9992
30	0.998418	0.999228	0.998048	0.999069	0.998884	0.999585	0.999555	0.999829	0.998233	0.999149
31	0.998498	0.999187	0.997825	0.998833	0.998812	0.999524	0.999676	0.999778	0.998162	0.99901

### Appendix C, continued

	NH	White	NH I	Black	Hisp	anics	NH A	Asian	NH	Other
Age	Male	Female								
32	0.998475	0.999187	0.997841	0.998698	0.998769	0.999483	0.999676	0.999718	0.998158	0.998943
33	0.998462	0.999135	0.998046	0.998594	0.998716	0.999483	0.999554	0.999718	0.998254	0.998865
34	0.998408	0.999053	0.997822	0.998438	0.998622	0.999452	0.999402	0.999788	0.998115	0.998745
35	0.998344	0.999032	0.997817	0.9986	0.998651	0.999401	0.999361	0.999687	0.99808	0.998816
36	0.998227	0.998969	0.997886	0.998598	0.998577	0.999299	0.999381	0.999586	0.998056	0.998784
37	0.998213	0.998866	0.997565	0.998297	0.998513	0.999319	0.999492	0.999586	0.997889	0.998582
38	0.998179	0.998793	0.997348	0.998201	0.99849	0.999308	0.999543	0.999697	0.997764	0.998497
39	0.997988	0.998741	0.997193	0.998301	0.998332	0.999226	0.999492	0.999636	0.99759	0.998521
40	0.997817	0.998647	0.997047	0.998081	0.998226	0.999134	0.999603	0.999525	0.997432	0.998364
41	0.997665	0.998511	0.996996	0.997692	0.998244	0.999001	0.999532	0.999616	0.99733	0.998102
42	0.997492	0.998324	0.996719	0.997499	0.998043	0.998898	0.999308	0.999707	0.997106	0.997912
43	0.997233	0.998157	0.996194	0.997159	0.997715	0.998764	0.999185	0.999737	0.996714	0.997658
44	0.996941	0.997968	0.995889	0.997193	0.997449	0.998568	0.999093	0.999524	0.996415	0.99758
45	0.996677	0.997912	0.99572	0.997174	0.997285	0.998453	0.998898	0.999402	0.996199	0.997543
46	0.996422	0.997845	0.995311	0.99685	0.997057	0.998369	0.998886	0.999392	0.995867	0.997348
47	0.996058	0.997477	0.994515	0.99664	0.996563	0.998171	0.998875	0.999189	0.995286	0.997058
48	0.995582	0.997221	0.993926	0.995875	0.996266	0.997972	0.998311	0.998752	0.994754	0.996548
49	0.995197	0.996994	0.993668	0.995305	0.996103	0.997813	0.998472	0.998781	0.994432	0.996149
50	0.994403	0.99636	0.992881	0.994969	0.995345	0.997493	0.997733	0.998909	0.993642	0.995664
51	0.993977	0.996098	0.992198	0.994094	0.994763	0.997295	0.997018	0.998557	0.993087	0.995096
52	0.993386	0.995526	0.991144	0.993825	0.994447	0.997283	0.997037	0.998358	0.992265	0.994675
53	0.992553	0.995551	0.990415	0.993076	0.993836	0.996796	0.997365	0.9983	0.991484	0.994314
54	0.992153	0.995049	0.98948	0.99274	0.993441	0.996481	0.996628	0.998254	0.990817	0.993894
55	0.991351	0.994806	0.98771	0.992043	0.992876	0.996294	0.996725	0.997811	0.98953	0.993425
56	0.990384	0.994424	0.986807	0.991255	0.992252	0.99606	0.995949	0.998288	0.988596	0.992839
57	0.989772	0.993887	0.985162	0.990758	0.991437	0.995403	0.995659	0.998127	0.987467	0.992322
58	0.989234	0.993703	0.984577	0.990002	0.991063	0.994954	0.994972	0.997409	0.986906	0.991852
59	0.988369	0.993169	0.983054	0.989232	0.98978	0.994487	0.995475	0.997647	0.985712	0.991201
60	0.987628	0.992907	0.980897	0.989219	0.989124	0.993975	0.994494	0.997673	0.984263	0.991063
61	0.986874	0.992064	0.980858	0.988002	0.988262	0.993652	0.994328	0.996983	0.983866	0.990033

Appendix C, continued

	NHV	Vhite	NH I	Black	Hisp	anics	NH A	Asian	NHO	Other
Age	Male	Female								
62	0.985917	0.991505	0.978567	0.987001	0.988208	0.993194	0.993331	0.995838	0.982242	0.989253
63	0.985255	0.99056	0.977504	0.985231	0.986436	0.991786	0.993637	0.996792	0.981379	0.987895
64	0.983938	0.989652	0.974799	0.985267	0.985614	0.991368	0.994543	0.996249	0.979369	0.98746
65	0.982996	0.989226	0.97362	0.984168	0.985495	0.990211	0.991054	0.995288	0.978308	0.986697
66	0.981662	0.98788	0.972768	0.982173	0.983352	0.990027	0.992687	0.995314	0.977215	0.985027
67	0.98027	0.986769	0.971364	0.981711	0.98266	0.989104	0.991368	0.993295	0.975817	0.98424
68	0.978322	0.98573	0.968361	0.980236	0.979869	0.988333	0.989879	0.993102	0.973342	0.982983
69	0.976711	0.984625	0.968524	0.978145	0.979904	0.987348	0.989336	0.993178	0.972617	0.981385
70	0.974166	0.982739	0.964413	0.97678	0.977553	0.985896	0.98915	0.990417	0.969289	0.979759
71	0.971947	0.980933	0.960652	0.975297	0.97675	0.985679	0.987584	0.991333	0.9663	0.978115
72	0.970229	0.979519	0.957254	0.971241	0.973035	0.983864	0.985457	0.990064	0.963742	0.97538
73	0.966721	0.977634	0.956002	0.971298	0.97165	0.983283	0.983357	0.990801	0.961362	0.974466
74	0.964288	0.975121	0.952176	0.96862	0.968845	0.979469	0.98177	0.987303	0.958232	0.971871
75	0.960813	0.972231	0.947657	0.965624	0.966823	0.978035	0.979743	0.983504	0.954235	0.968927
76	0.956908	0.969124	0.94206	0.962739	0.963977	0.974372	0.978228	0.981952	0.949484	0.965931
77	0.951894	0.966095	0.940284	0.961839	0.958858	0.973133	0.975773	0.975167	0.946089	0.963967
78	0.948121	0.962074	0.938037	0.953602	0.954303	0.969098	0.968532	0.980225	0.943079	0.957838
79	0.941876	0.957886	0.929485	0.951507	0.949742	0.963488	0.970394	0.973353	0.93568	0.954697
80	0.936633	0.953621	0.921365	0.944918	0.947147	0.960443	0.960431	0.97012	0.928999	0.94927
81	0.928945	0.947665	0.915685	0.940318	0.941948	0.956324	0.955262	0.96461	0.922315	0.943992
82	0.922248	0.941861	0.911323	0.935834	0.934712	0.95044	0.953622	0.966309	0.916786	0.938847
83	0.914529	0.935521	0.903622	0.932436	0.924791	0.946867	0.950837	0.961726	0.909076	0.933979
84	0.905359	0.928147	0.895028	0.924692	0.919945	0.937437	0.941177	0.955536	0.900193	0.926419
85	0.895246	0.918496	0.888983	0.912881	0.911694	0.930332	0.930484	0.942875	0.892114	0.915689
86	0.882181	0.908829	0.881907	0.909214	0.901255	0.920742	0.926468	0.939482	0.882044	0.909022
87	0.868635	0.896649	0.871198	0.898566	0.89502	0.910246	0.913697	0.922901	0.869917	0.897607
88	0.856039	0.882745	0.854079	0.887725	0.882143	0.904167	0.903808	0.923163	0.855059	0.885235
89	0.840319	0.870904	0.85091	0.886224	0.865902	0.888073	0.895278	0.90856	0.845615	0.878564
90	0.820399	0.852821	0.838717	0.869478	0.862153	0.871504	0.886136	0.901549	0.829558	0.861149
91	0.802772	0.835954	0.841576	0.857119	0.83971	0.862769	0.863408	0.881975	0.822174	0.846536

## Appendix C, continued

	NH	White	NH I	Black	Hisp	anics	NH A	Asian	NH (	Other
Age	Male	Female								
92	0.778556	0.817927	0.811778	0.846453	0.826014	0.846104	0.846488	0.877859	0.795167	0.83219
93	0.750709	0.795233	0.797252	0.829192	0.81533	0.834969	0.845062	0.833642	0.773981	0.812212
94	0.735034	0.774144	0.786027	0.811061	0.802424	0.823472	0.803877	0.821964	0.76053	0.792603
95+	0.676307	0.698084	0.763949	0.757598	0.773341	0.765511	0.808265	0.809726	0.720128	0.727841



## Appendix D

Baseline Migration Rates per Person per Year by Age Group, Sex, and Race/Ethnicity for 2010-2015 for the State of Texas

Appendix D: Baseline Migration Rates per Person per Year by Age, Sex, and Race/Ethnicity for 2010-2015 for the State of Texas

	NH	White	NH	Black	Hisp	panics	NH	Asian	NH	Other
Age	Male	Female								
5 - 9	0.006669	0.006754	0.014431	0.015759	0.005022	0.006906	0.033614	0.031651	0.015259	0.01454
10 - 14	0.002536	-0.00023	0.012097	0.012036	0.005654	0.005021	0.029334	0.0272	0.015504	0.00960
15 - 19	0.014251	0.011107	0.021858	0.019666	0.009827	0.008558	0.073046	0.06555	0.019329	0.0223
20 - 24	0.019143	0.020069	0.025825	0.027442	0.012053	0.01278	0.079518	0.098906	0.033628	0.03454
25 - 29	0.010519	0.010102	0.02184	0.022798	0.009651	0.010908	0.058502	0.064343	0.021485	0.02127
30 - 34	0.007538	0.007271	0.018609	0.016081	0.007653	0.009113	0.052211	0.044812	0.019899	0.01592
35 - 39	0.00722	0.006018	0.014522	0.013085	0.006521	0.007152	0.032955	0.030425	0.018066	0.01240
40 - 44	0.005328	0.00441	0.008837	0.009203	0.005355	0.00578	0.023922	0.023856	0.011308	0.01277
45 - 49	0.003688	0.003076	0.005955	0.006716	0.003586	0.005312	0.020088	0.021291	0.009956	0.01150
50 - 54	0.002329	0.001993	0.00329	0.006587	0.003034	0.004173	0.019246	0.0202	0.011768	0.00698
55 - 59	0.001253	0.00158	0.002623	0.006299	0.003168	0.004456	0.018392	0.019914	0.009677	0.00549
60 - 64	0.001118	0.001542	0.002808	0.005339	0.003393	0.003864	0.021524	0.020541	0.007113	0.008629
65 - 69	0.001788	0.002105	0.004851	0.006878	0.002894	0.003558	0.009679	0.00484	0.005531	0.00462
70 - 74	0.002255	0.002865	0.005027	0.00766	0.002695	0.00367	0.010104	0.005052	0.002893	0.00922
75 - 79	0.002255	0.002865	0.005027	0.00766	0.002695	0.00367	0.010104	0.005052	0.002893	0.00922
80 - 84	0.002255	0.002865	0.005027	0.00766	0.002695	0.00367	0.010104	0.005052	0.002893	0.00922
85 - 89	0.002255	0.002865	0.005027	0.00766	0.002695	0.00367	0.010104	0.005052	0.002893	0.009222
90 - 94	0.002255	0.002865	0.005027	0.00766	0.002695	0.00367	0.010104	0.005052	0.002893	0.009222
95+	0.002255	0.002865	0.005027	0.00766	0.002695	0.00367	0.010104	0.005052	0.002893	0.00922