

**A Companion Paper to
*A Primer on Adult Education in Texas***

**Identifying the Current and
Future Population in Need of Adult Education**

**Texas Workforce Investment Council
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Introduction

The Texas Workforce Investment Council (Council) was created in 1993 by the 73rd Texas Legislature. As an advisory body to the Governor and the Legislature, the Council assists with strategic planning for and evaluation of Texas' workforce development system. The Council promotes the development of a well-educated, highly skilled workforce for Texas and advocates a workforce system that provides quality workforce education and training opportunities. The 19-member Council includes representatives from business, labor, education, community-based organizations and the Council's five member state agencies.

Statutory Directive

Under Title 10 Texas Government Code (TGC) Section 2308.1016, the Council is responsible for facilitating the efficient delivery of integrated adult education and literacy services in Texas. The Council is charged with evaluating the adult education programs administered by the Texas Education Agency (TEA) and the Texas Workforce Commission (TWC) and identifying duplication of planning, lack of adequate client information sharing, and any other problems that adversely affect the delivery of adult education and literacy programs.

Building on earlier work presented in *A First Look at Critical Issues Surrounding Adult Education and Literacy in Texas* (2003), the Council reviewed aspects of adult education focusing largely on TEA's adult education programs funded by Title II of the Workforce Investment Act of 1998 (Public Law 105-220). The Council also included information about current adult education initiatives at TWC and the Texas Higher Education Coordinating Board (THECB). This research was published in *A Primer on Adult Education in Texas (Primer)* in January 2010. The *Primer* detailed adult education legislation, funding, the service delivery system, current and future populations in need of adult education services, and program reporting and accountability. The *Primer* was written as a foundation upon which further research could provide more detailed analyses of specific issue areas.

Scope of Report

This report is the first companion paper to *A Primer on Adult Education in Texas*. The analyses in this report use updated data that were not available when the *Primer* was written and utilize a more detailed methodology employed by the Office of the State Demographer. The data presented in this report should supersede the initial data reported in the *Primer*. Between October 2009 and January 2010, the Council worked with the Office of the State Demographer to conduct further analyses of the current population in need of adult education services, a more detailed estimate of the future need for services based on projections for the Texas population, and the geographic dispersion of need in Texas by local workforce development areas (LWDA). The Office of the State Demographer also provided detailed descriptions of the rationale and methodology used to produce the data and projections.

Defining Adult Education

Adult education is often applied as a broad reference for numerous and distinct types of adult learning activities. For the purpose of the Council's work, the definition of adult education is determined by Title

II of the 1998 Workforce Investment Act (WIA), the Adult Education and Family Literacy Act. WIA defines adult education as the instruction and services below postsecondary level provided for individuals:

- Who are 16 years old and older,
- Not enrolled or required to be enrolled in secondary school under state law,
- and who:
 - Lack basic educational skills to function effectively in society,
 - Do not have a secondary diploma or equivalent, or
 - Are unable to speak, read, or write English.

Adult education programs generally emphasize basic skills in reading, writing, math, and English language competency to prepare adults for jobs or further academic instruction. This definition, though somewhat narrowed by statutory parameters, provides a starting point for understanding the role of adult education in workforce development. A further discussion of the definition of adult education and its limitations is included in *A Primer on Adult Education in Texas* (TWIC, 2010).

Current Population in Need of Adult Education

Understanding the current need for adult education services is critical to policy makers and practitioners in order to evaluate program effectiveness, design services, develop strategies, and make policy recommendations. This section describes the current Texas population in need of adult education services according to the eligibility definition in Title II of WIA using data from the 2006-2008 American Community Survey. Results indicate that 23.7% of the Texas population over the age of 16 (3,871,173 individuals) met the federal definition and qualify for adult education services. The need for adult education services varies between racial and ethnic groups with Hispanics accounting for the largest percentages of individuals qualifying for services in all but one of the educational attainment categories and whites accounting for the second largest percentage of English fluent individuals with less than a high school diploma or GED.

Defining Need

As discussed in the Introduction, the Council's definition of adult education is determined by Title II of WIA. In this report, individuals who are not enrolled in secondary school and who are at least 16 years old are eligible for adult education services if they have not earned a high school diploma (or GED) or are unable to speak, read, or write English. Calculating the numbers of individuals in Texas that meet these eligibility requirements provides an idea of the current need for adult education services in the state.

Description of the Current Population

To determine current need for adult education services in Texas, the Office of the State Demographer calculated the number of individuals who qualify for adult education by analyzing the 2006-2008 American Community Survey (ACS). The ACS is a nationwide survey conducted by the Census Bureau since 2000. The ACS provides yearly demographic and socioeconomic data such as educational attainment, ability to speak English, and citizenship status and will replace the decennial census long form in 2010 (U.S. Census Bureau, 2001). Survey results are statistically weighted to approximate the population of the state. The 2006-2008 multiyear estimates are based on data collected over three years and describe the average characteristics for that three year time period. For example, if the number of individuals who have not completed high school in an area was 2,000 in 2006, 2,000 in 2007 and 5,000 in 2008, the 2006-2008 three year estimate would be 3,000. Compared to some of the one year ACS estimates, like the 2007 ACS data used in the *Primer*, the 2006-2008 ACS data is less current. However, the three year estimates are more reliable since they are based on larger samples and also include information from smaller geographic areas (U.S. Census Bureau 2009a).

The 2006-2008 ACS indicates that there were 17,956,534 individuals in Texas who were at least 16 years old. Of these individuals, 16,334,198 were not secondary students. Of that number, 23.7% or 3,871,173 qualified for adult education services because they were not English fluent and/or did not have at least a high school diploma or GED. Looking specifically at the group of individuals traditionally thought of as prime working age, between the ages of 16 and 64, 21.6% or 3,104,030 qualified for adult education services.

Table 1 presents the numbers of individuals eligible for adult education services in Texas by nativity, fluency, and educational attainment. Information is provided for everyone who is at least 16 years old

and for individuals between 16 and 64 years old. Of the 3,871,173 individuals over the age of 16 who qualify for adult education services, 2,202,852 are English fluent and have less than a high school level of education. Of these individuals, approximately 63% have attained between a 9th to 12th grade education level.

Table 1 indicates that approximately 43% of Texans eligible for adult education services are unable to speak English. This large percentage of adult English as a second language (ESL) learners can be better understood by considering their nativity status, or where they were born. Almost 90% of non-English fluent individuals over the age of 16 who qualify for adult education services in Texas are foreign born. These individuals in need of English literacy skills do not necessarily lack basic educational skills, though it is often the case. Of the individuals over the age of 16 who qualify for adult education services and are not English fluent, 28% have a GED or higher level of educational attainment. For example, an immigrant may have a college degree from his or her home country but not be able to speak English. This individual is therefore literate and educated in his or her native language. The adult education services required by this individual would be very different compared to the services required by a native or foreign born individual who did not graduate high school and is unable to speak English. Providing English language skills to these individuals could give them the fluency necessary to find a job in which they can utilize their education.

Table 1: Individuals Eligible for Adult Education Services in Texas by Nativity, Fluency, and Educational Attainment (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Age 16+	16-64	16+	16-64	16+	16-64	16+	16-64
0 to 4th Grade	208,518 (9.47%)	129,255 (7.77%)	50,368 (30.12%)	15,158 (14.02%)	282,242 (18.80%)	204,539 (15.35%)	541,128 (13.98%)	348,952 (11.24%)
5th to 8th Grade	532,069 (24.15%)	352,349 (21.19%)	42,436 (25.39%)	27,342 (25.29%)	506,703 (33.76%)	456,306 (34.23%)	1,081,208 (27.93%)	835,997 (26.93%)
9th to 12th Grade (no diploma)	1,462,265 (66.38%)	1,181,430 (71.04%)	21,393 (12.80%)	18,813 (17.40%)	297,250 (19.80%)	284,424 (21.34%)	1,780,908 (46.00%)	1,484,667 (47.83%)
High School Graduate	*	*	20,710 (12.39%)	18,727 (17.32%)	246,971 (16.45%)	233,551 (17.52%)	267,681 (6.91%)	252,278 (8.13%)
GED	*	*	5,947 (3.56%)	5,099 (4.72%)	28,666 (1.91%)	26,528 (1.99%)	34,613 (0.89%)	31,627 (1.02%)
Some College to 2-yr Degree	*	*	15,713 (9.40%)	13,874 (12.83%)	81,173 (5.41%)	76,158 (5.71%)	96,886 (2.50%)	90,032 (2.90%)
Bachelors Degree and Higher	*	*	10,599 (6.34%)	9,090 (8.41%)	58,150 (3.87%)	51,387 (3.86%)	68,749 (1.78%)	60,477 (1.95%)
Total	2,202,852 (100%)	1,663,034 (100%)	167,166 (100%)	108,103 (100%)	1,501,155 (100%)	1,332,893 (100%)	3,871,173 (100%)	3,104,030 (100%)

Table Notes: This table presents information for everyone over the age of 16 who qualifies for adult education and the subset of individuals who are between 16 and 64. Percentages represent individuals in each column. Asterisks are used as placeholders since English fluent individuals who have at least graduated high school do not qualify for adult education. Individuals are considered not English fluent if they report speaking English "not well" or "not at all."

Source: Office of the State Demographer's analysis of American Community Survey 2006-2008, three year estimate.

The population in need of adult education services can be described in more detail by analyzing data on race and ethnicity. Table 2 illustrates the numbers and percentages of individuals in each educational attainment category by race, nativity, and English fluency. Hispanics account for the largest percentages of individuals who qualify for services in all of the educational attainment categories except for Bachelors degree and higher for non-English fluent native born. Whites account for the second largest percentage of English fluent individuals with less than a high school diploma or GED.

Table 2: Individuals Eligible for Adult Education Services in Texas by Nativity, Fluency, Race, and Educational Attainment (2006-2008)

Educational Attainment	Race/ Ethnicity	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
		Num	%	Num	%	Num	%	Num	%
0 to 4th Grade	White	49,254	24%	804	2%	2,877	1%	52,935	10%
	Black	21,968	11%	0	0%	928	0%	22,896	4%
	Hisp.	130,455	63%	48,848	97%	265,211	94%	444,514	82%
	Asian	5,524	3%	248	0%	12,600	4%	18,372	3%
	Other	1,317	1%	468	1%	626	0%	2,411	0%
	Total	208,518	100%	50,368	100%	282,242	100%	541,128	100%
5th to 8th Grade	White	157,176	30%	388	1%	3,545	1%	161,109	15%
	Black	49,808	9%	93	0%	876	0%	50,777	5%
	Hisp.	316,527	59%	41,909	99%	486,824	96%	845,260	78%
	Asian	5,501	1%	0	0%	14,333	3%	19,834	2%
	Other	3,057	1%	46	0%	1,125	0%	4,228	0%
	Total	532,069	100%	42,436	100%	506,703	100%	1,081,208	100%
9th to 12th Grade (no diploma)	White	584,023	40%	796	4%	1,916	1%	586,735	33%
	Black	226,643	15%	107	1%	594	0%	227,344	13%
	Hisp.	623,293	43%	20,025	94%	278,010	94%	921,328	52%
	Asian	18,872	1%	243	1%	15,794	5%	34,909	2%
	Other	9,434	1%	222	1%	936	0%	10,592	1%
	Total	1,462,265	100%	21,393	100%	297,250	100%	1,780,908	100%
High School Graduate	White	*	*	1,476	7%	4,634	2%	6,110	2%
	Black	*	*	495	2%	1,788	1%	2,283	1%
	Hisp.	*	*	18,665	90%	214,402	87%	233,067	87%
	Asian	*	*	104	1%	25,593	10%	25,697	10%
	Other	*	*	24	0%	616	0%	640	0%
	Total	*	*	20,764	100%	247,033	100%	267,797	100%
GED	White	*	*	551	9%	704	2%	1,255	4%
	Black	*	*	0	0%	0	0%	0	0%
	Hisp.	*	*	5,342	91%	24,939	87%	30,281	88%
	Asian	*	*	0	0%	2,961	10%	2,961	9%
	Other	*	*	0	0%	0	0%	0	0%
	Total	*	*	5,893	100%	28,604	100%	34,497	100%
Some College to 2-yr Degree	White	*	*	4,430	28%	2,728	3%	7,158	7%
	Black	*	*	769	5%	445	1%	1,214	1%
	Hisp.	*	*	10,221	65%	68,188	84%	78,409	81%
	Asian	*	*	176	1%	9,624	12%	9,800	10%
	Other	*	*	117	1%	188	0%	305	0%
	Total	*	*	15,713	100%	81,173	100%	96,886	100%
Bachelors Degree and Higher	White	*	*	4,837	46%	3,555	6%	8,392	12%
	Black	*	*	444	4%	431	1%	875	1%
	Hisp.	*	*	4,602	43%	40,162	69%	44,764	65%
	Asian	*	*	678	6%	13,941	24%	14,619	21%
	Other	*	*	38	0%	61	0%	99	0%
	Total	*	*	10,599	100%	58,150	100%	68,749	100%

Source: Office of the State Demographer's analysis of American Community Survey 2006-2008, three year estimate.

Geographic Distribution of Current Need for Adult Education in Texas

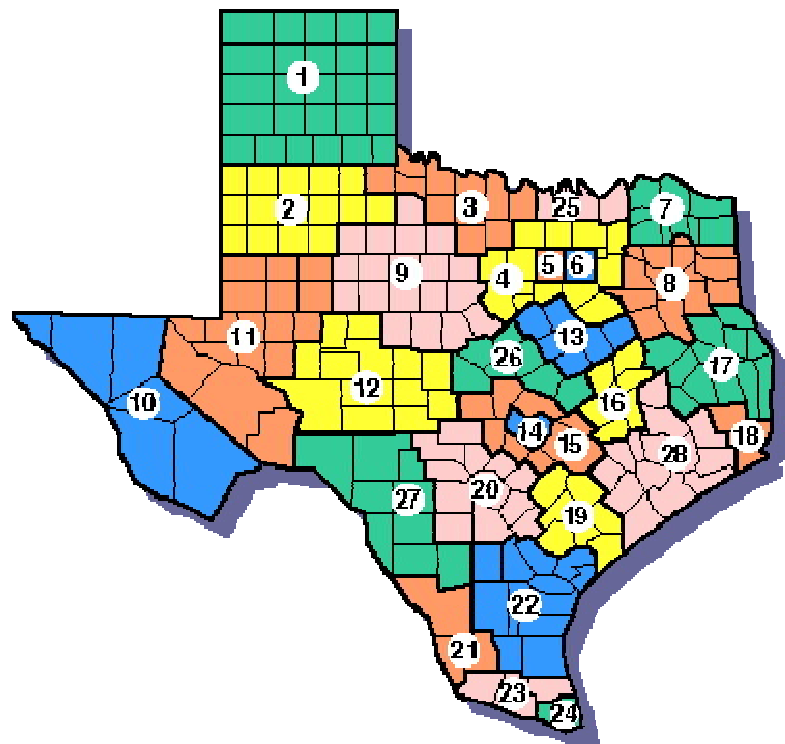
As part of the demographic research conducted by the Office of the State Demographer, the Council asked that the geographic distribution of the need for adult education in Texas be determined. The Office of the State Demographer calculated the numbers of individuals over the age of 16 who qualify for adult education in each of the 28 local workforce development areas (LWDA) using the 2006-2008 American Community Survey. Gulf Coast, Dallas, and Alamo have the highest total percentages of individuals eligible for adult education services in Texas.

The 28 Local Workforce Development Areas

Under Title 10 TGC Sections 2308.1015 and 2308.1016, the Council is responsible for facilitating the delivery of integrated workforce services and the efficient delivery of integrated adult education and literacy services in Texas. To assist workforce system stakeholders in coordinating program planning and delivery and in designing integrated services, the Council selected the 28 local workforce development areas as the sub-state regions that the Office of the State Demographer would use to analyze the geographic distribution of the current and projected populations in need of adult education services. These geographic regions are widely recognized among system stakeholders and are the boundaries within which funding flows for a number of workforce programs and initiatives. Figure 1 illustrates the 28 local workforce development areas throughout the state.

Figure 1: Texas Local Workforce Development Areas

1. Panhandle
2. South Plains
3. North Texas
4. North Central
5. Tarrant County
6. Dallas
7. North East
8. East Texas
9. West Central
10. Upper Rio Grande
11. Permian Basin
12. Concho Valley
13. Heart of Texas
14. Capital Area
15. Rural Capital
16. Brazos Valley
17. Deep East Texas
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20. Alamo
21. South Texas
22. Coastal Bend
23. Lower Rio Grande Valley
24. Cameron County
25. Texoma
26. Central Texas
27. Middle Rio Grande
28. Gulf Coast



Summary Table of the Geographic Distribution of Current Need

Appendix A presents the numbers of individuals over the age of 16 eligible for adult education services in each LWDA by nativity, fluency, and educational attainment. Table 3 summarizes the total numbers of individuals eligible for adult education services in each LWDA. Gulf Coast has the highest percentages of individuals in all three categories (English fluent; not English fluent-native born; and not English fluent-foreign born) followed by Dallas and Alamo.

Table 3: Individuals Eligible for Adult Education Services in Texas by Local Workforce Development Area (2006-2008)

LWDA	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1. Panhandle	47,338	2.15%	1,837	1.10%	16,093	1.07%	65,269	1.69%
2. South Plains	44,570	2.02%	3,989	2.39%	7,083	0.47%	55,642	1.44%
3. North Texas	24,636	1.12%	542	0.32%	3,579	0.24%	28,757	0.74%
4. North Central	145,488	6.60%	4,223	2.53%	75,570	5.03%	225,281	5.82%
5. Tarrant County	133,891	6.08%	5,520	3.30%	94,801	6.32%	234,211	6.05%
6. Dallas	221,708	10.06%	9,561	5.72%	250,948	16.72%	482,217	12.46%
7. North East	34,352	1.56%	409	0.24%	7,773	0.52%	42,534	1.10%
8. East Texas	93,761	4.26%	1,511	0.90%	20,758	1.38%	116,030	3.00%
9. West Central	39,017	1.77%	1,526	0.91%	4,949	0.33%	45,492	1.18%
10. Upper Rio	62,501	2.84%	13,335	7.98%	89,343	5.95%	165,179	4.27%
11. Permian Basin	50,908	2.31%	4,057	2.43%	21,080	1.40%	76,044	1.96%
12. Concho Valley	18,361	0.83%	1,407	0.84%	4,249	0.28%	24,018	0.62%
13. Heart of Texas	38,874	1.76%	1,170	0.70%	11,856	0.79%	51,900	1.34%
14. Capital Area	56,794	2.58%	4,588	2.74%	61,045	4.07%	122,428	3.16%
15. Rural Capital	55,101	2.50%	3,523	2.11%	25,546	1.70%	84,170	2.17%
16. Brazos Valley	26,267	1.19%	481	0.29%	8,901	0.59%	35,648	0.92%
17. Deep East Texas	49,484	2.25%	848	0.51%	9,902	0.66%	60,234	1.56%
18. South East Texas	42,854	1.95%	397	0.24%	8,735	0.58%	51,986	1.34%
19. Golden Crescent	25,479	1.16%	1,400	0.84%	4,820	0.32%	31,700	0.82%
20. Alamo	206,170	9.36%	19,536	11.69%	76,316	5.08%	302,022	7.80%
21. South Texas	21,215	0.96%	10,024	6.00%	38,072	2.54%	69,311	1.79%
22. Coastal Bend	75,431	3.42%	11,737	7.02%	15,624	1.04%	102,793	2.66%
23. Lower Rio	80,391	3.65%	21,304	12.74%	118,630	7.90%	220,325	5.69%
24. Cameron County	40,339	1.83%	9,622	5.76%	50,454	3.36%	100,415	2.59%
25. Texoma	18,841	0.86%	320	0.19%	4,184	0.28%	3,345	0.60%
26. Central Texas	32,455	1.47%	2,044	1.22%	6,001	0.40%	40,500	1.05%
27. Middle Rio	19,910	0.90%	5,917	3.54%	18,458	1.23%	44,285	1.14%
28. Gulf Coast	496,700	22.55%	26,337	15.76%	446,377	29.74%	969,414	25.04%
Total	2,202,837	100%	167,164	100%	1,501,148	100%	3,871,149	100%

Table Notes: Percentages represent individuals in each column. LWDA totals do not equal the statewide totals presented in Table 1 because of rounding.

Source: Office of the State Demographer's analysis of American Community Survey 2006-2008, three year estimate.

Projected Population in Need of Adult Education

Between 2008 and 2040, the population of Texas is projected to grow by 47%. Changes in the racial/ethnic composition of the state will also occur between 2008 and 2040 with the Hispanic population growing rapidly. As the state's population changes, the number of individuals who qualify for adult education services will also change. By 2040, current and projected population trends indicate that 7,919,901 Texans will be eligible for adult education services. This is a 99% increase from 2008. Additionally, Hispanics will represent an increasingly larger percentage of the total individuals who qualify for adult education in the future, increasing from 2,677,670 (67% of the total) in 2008 to 5,897,462 (74% of the total) in 2040.

Texas Population Trends

Texas is the second most populous and the third fastest-growing state in the U.S. From 2000 to 2008, the population of Texas grew by 16.7% whereas the population of the U.S. increased by 8%. By 2008, Texas' population was 24,326,974 and projections indicate that the population will be 35,761,165 in 2040. Texas also has the fourth highest total fertility rate in the U.S. and a younger population than the national average. The median age in Texas was 32.3 in 2000 whereas the national median age was 35.3.

The racial and ethnic composition of the Texas population is also changing rapidly. The number of whites is growing at a slower rate and each year accounts for a smaller percentage of the Texas population. However, the Hispanic population is growing rapidly. Projections from the Texas State Data Center indicate that from 2000 to 2040, the Hispanic population in Texas will increase by approximately 182%. Figure 2 illustrates the projected growth in the Texas population by ethnicity.

Figure 2: Projected Population Growth in Texas by Race/Ethnicity, 2000-2040

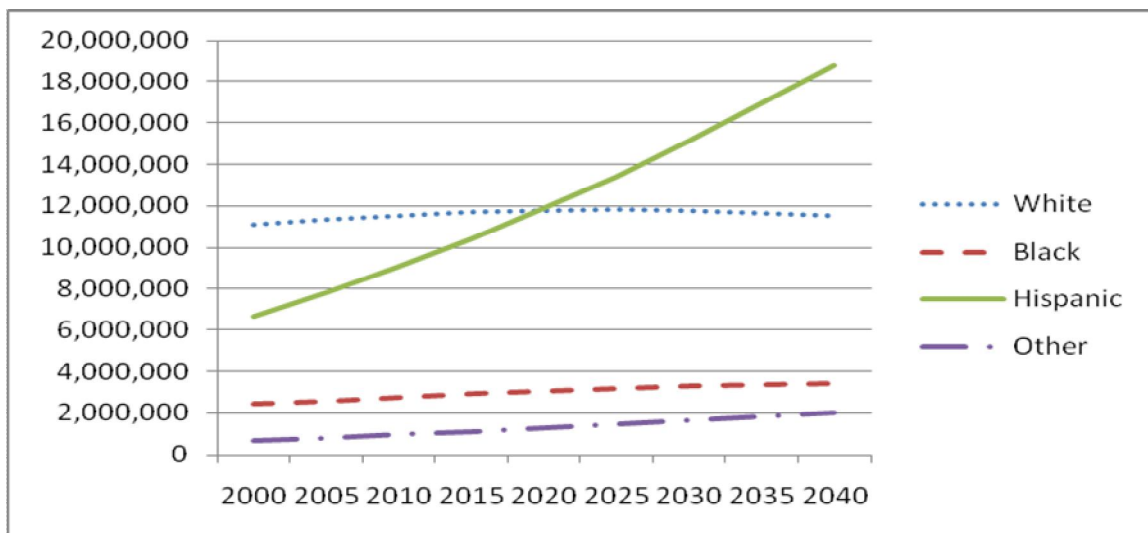


Figure Notes: Projections assume net migration rates equal to one-half of those of the 1990s (0.5 scenario).

Figure Source: Texas State Data Center projections.

Three population trends, high school graduation, English fluency, and nativity, will be important indicators of the future numbers of individuals who will qualify for adult education services unless current gaps in educational attainment are significantly reduced. Even though the percentages of Texans graduating high school or earning a GED have increased between 2000 and 2008, Texas has a smaller percentage of high school graduates when compared to the U.S. In 2000, 75.7% of Texans over the age of 25 had graduated high school whereas the percentage for the U.S. was 80.4%. In 2006-2008, 79.2% of Texans over the age of 25 had graduated high school whereas the national average was 84.5%.

Texas also has higher percentages of people speaking a language other than English at home. In 2000, 31.2% of the Texas population reported speaking a language other than English at home whereas the U.S. percentage was 17.9%. By 2005-2007, the percentage of Texans speaking a language other than English at home increased to 33.5%.

Lastly, Texas' population also has a greater percentage of foreign-born individuals than the U.S. population. In 2000, foreign-born individuals accounted for 13.9% of Texas' population and 11.1% of the U.S. population. The percentage of foreign-born individuals in Texas rose to 15.8% in 2005-2007.

Description of the Future Population

Texas' population trends suggest that the need for adult education services will increase in the future. To determine the future need for adult education services in Texas, the Office of the State Demographer used ACS data in conjunction with projections from the State Data Center to calculate the number of individuals who will qualify for adult education in 2010, 2015, 2020, 2030, and 2040. A detailed explanation of the projection methodology is included in Appendix B. In short, the projections are relatively conservative and assume rates of net migration that are half of those observed in the 1990s (the 0.5 migration scenario). Additionally, projections of international migration were made using assumptions derived by calculating the composition of recent immigrants to the state from the 2006-2008 ACS microdata file and comparisons with national trends generated by the U.S. Census Bureau.

Table 4 illustrates the projected numbers of individuals eligible for adult education services in Texas by nativity, fluency, and education level for 2008 through 2040. Data for 2008 is provided by two separate sources and can be somewhat confusing. The "2008 single year ACS data" reflects the single year survey estimates. The "2008 (2006-2008 rates)" values reflect the three year ACS estimates applied to the 2008 population. Applying the 2006-2008 rates to the 2008 population allows for the more reliable 3 year rates to be applied to the most current 2008 population. Projections using the 2006-2008 rates indicate that 7,919,901 Texans will be eligible for adult education services by 2040. This is a 99% increase from 2008 with the 2006-2008 rates. Looking at each of the educational attainment levels separately, Texas will see the largest increase (242%) in non-English fluent individuals with less than a high school education between 2008 and 2040. Generally, projections indicate greater increases in the need for adult education for the native born than for the foreign born at all three education levels.

Table 4: Projected Numbers of Individuals Eligible for Adult Education Services in Texas by Nativity, Fluency, and Education Level (2008-2040)

Year	Native Born			Foreign Born			Total
	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	
2008 single year ACS data	1,666,345	115,109	51,822	496,643	1,106,745	418,206	3,854,870
2008 (2006-2008 rates)	1,773,940	118,480	54,603	484,998	1,118,971	426,095	3,977,086
2010	1,876,708	127,056	59,692	509,897	1,178,349	443,904	4,195,606
2015	2,108,779	155,098	69,791	573,346	1,333,482	484,964	4,725,459
2020	2,393,320	191,742	82,105	635,446	1,492,330	523,007	5,317,949
2030	3,043,037	287,652	111,286	753,493	1,826,164	591,667	6,613,299
2040	3,680,269	405,214	144,436	859,811	2,165,572	664,598	7,919,901

Table Notes: The 2008 ACS data are from a single year. The 2008 (2006-2008 rates) data indicate the 2006-2008, three year rates applied to the 2008 population. Projections assume rates of net migration that are half of those observed in the 1990s (0.5 migration scenario), as recommended by the Office of the State Demographer for long range projections and use the 2006-2008 ACS rates for adult education need.

Source: Office of the State Demographer.

The projected population in need of adult education services can be described in more detail by analyzing data on race and ethnicity. Table 5 illustrates the projected numbers of individuals in each educational attainment category by race, nativity, and English fluency for 2008 through 2040. Hispanics account for the largest projected percentages of individuals who will qualify for services for each year. Additionally, Hispanics will represent an increasingly larger percentage of the total individuals who qualify for adult education in the future. The percentage of Hispanics qualifying for adult education is projected to increase from 2,677,670 (67% of the total) in 2008 to 5,897,462 (74% of the total) in 2040.

Table 5: Projected Numbers of Individuals Eligible for Adult Education Services in Texas by Nativity, Fluency, Race, and Education Level (2008-2040)

Year	Race/ Ethnic	Native Born			Foreign Born			Total	Percent of Total for Each Year
		Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent		
2008 single year ACS data	White	721,126	2,274	11,358	23,341	10,888	14,701	783,688	20%
	Black	287,601	268	1,068	6,741	1,781	2,542	300,001	8%
	Hisp.	647,521	111,281	38,487	436,409	1,049,083	345,862	2,628,643	68%
	Other	10,097	1,286	909	30,152	44,993	55,101	142,538	4%
	Total	1,666,345	115,109	51,822	496,643	1,106,745	418,206	3,854,870	100%
2008 (2006- 2008 rates)	White	780,571	2,040	11,468	24,031	9,310	12,841	840,262	21%
	Black	297,455	202	1,738	6,327	2,577	2,808	311,105	8%
	Hisp.	683,216	115,115	40,321	424,237	1,059,479	355,302	2,677,670	67%
	Other	12,697	1,123	1,076	30,403	47,605	55,145	148,050	4%
	Total	1,773,940	118,480	54,603	484,998	1,118,971	426,095	3,977,086	100%
2010	White	801,704	2,109	11,736	25,348	9,784	13,599	864,280	21%
	Black	306,795	207	1,782	6,954	2,872	3,057	321,668	8%
	Hisp.	755,853	123,646	45,126	444,532	1,112,897	367,258	2,849,311	68%
	Other	12,357	1,093	1,047	33,063	52,795	59,990	160,347	4%
	Total	1,876,708	127,056	59,692	509,897	1,178,349	443,904	4,195,606	100%
2015	White	839,839	2,267	11,918	29,069	11,084	15,430	909,607	19%
	Black	337,275	235	1,895	8,652	3,601	3,634	355,291	8%
	Hisp.	916,984	151,297	54,733	494,691	1,250,011	391,463	3,259,179	69%
	Other	14,682	1,299	1,244	40,933	68,787	74,437	201,382	4%
	Total	2,108,779	155,098	69,791	573,346	1,333,482	484,964	4,725,459	100%
2020	White	882,501	2,448	12,066	33,053	12,507	17,690	960,265	18%
	Black	373,257	275	1,980	10,253	4,295	4,290	394,351	7%
	Hisp.	1,120,427	187,503	66,607	542,530	1,388,233	410,675	3,715,974	70%
	Other	17,135	1,516	1,452	49,609	87,295	90,351	247,359	5%
	Total	2,393,320	191,742	82,105	635,446	1,492,330	523,007	5,317,949	100%
2030	White	951,832	2,765	12,143	41,883	15,612	22,324	1,046,559	16%
	Black	445,416	364	2,105	14,690	6,193	5,993	474,760	7%
	Hisp.	1,623,029	282,509	95,108	630,512	1,677,271	441,807	4,750,237	72%
	Other	22,761	2,014	1,929	66,408	127,087	121,544	341,743	5%
	Total	3,043,037	287,652	111,286	753,493	1,826,164	591,667	6,613,299	100%
2040	White	940,934	2,753	11,884	52,040	19,127	27,468	1,054,206	13%
	Black	486,593	401	2,208	18,848	7,979	7,589	523,618	7%
	Hisp.	2,223,565	399,479	127,872	705,145	1,966,361	475,040	5,897,462	74%
	Other	29,176	2,581	2,473	83,779	172,105	154,501	444,615	6%
	Total	3,680,269	405,214	144,436	859,811	2,165,572	664,598	7,919,901	100%

Table Notes: Projections assume rates of net migration that are half of those observed in the 1990s (0.5 migration scenario).

Source: Office of the State Demographer.

Geographic Distribution of Projected Need for Adult Education in Texas

The Office of the State Demographer determined the geographic distribution of the projected need for adult education throughout Texas by calculating the projected numbers of individuals over the age of 16 who qualify for adult education in each of the 28 local workforce development areas using projections developed by the State Data Center. North Central, Rural Capitol, Tarrant, Dallas, and South Texas are projected to have over 100% increases in the numbers of individuals needing adult education services between 2010 and 2040.

Projection Methodology by LWDA Summary

The numbers were calculated for each LWDA by the Office of the State Demographer using the projection methodology detailed in Appendix B. In short, the projections assumed rates of net migration that are half of those observed in the 1990s (the 0.5 migration scenario), then a portion of the total foreign-born population was allocated to each work force region based on the region's projected growth, and finally the percentages of the population needing adult education were calculated for each LWDA by applying statewide rates from the 2006-2008 American Community Survey.

Summary of the Geographic Distribution of Projected Need for Adult Education in Texas

Appendix C presents the projected numbers of individuals over the age of 16 eligible for adult education services in each LWDA by educational attainment level. Table 6 summarizes the total projected numbers of individuals eligible for adult education services in each LWDA. Projections indicate that Texas will experience an 88.8% increase in the numbers of individuals qualifying for adult education between 2010 and 2040. North Central, Rural Capitol, Tarrant, Dallas, and South Texas are projected to have over 100% increases in the numbers of individuals needing adult education services. The largest projected increase in any category is the 188.9% growth rate for non-English fluent individuals with less than a high school education in North Central.

Table 6: Projected Growth of Individuals Needing Adult Education by LWDA (2040)

Region	Less than HS, English Fluent	Growth Rate from 2010	Less than HS, Not English Fluent	Growth Rate from 2010	HS and above, Not English Fluent	Growth Rate from 2010	Total	Growth Rate from 2010
1. Panhandle	66,363	61.8%	22,486	71.6%	7,202	35.5%	96,051	61.6%
2. South Plains	60,892	44.7%	16,114	58.6%	5,044	27.8%	82,050	46.0%
3. North Texas	27,345	33.7%	7,867	67.7%	2,644	37.4%	37,857	39.8%
4. North Central	415,397	153.1%	238,679	188.9%	79,455	127.9%	733,531	160.5%
5. Tarrant County	299,933	104.4%	173,307	127.7%	55,838	79.5%	529,078	108.3%
6. Dallas	514,504	104.9%	381,961	113.6%	120,534	69.0%	1,016,999	102.9%
7. North East	32,226	27.5%	7,891	50.0%	2,658	15.9%	42,775	30.3%
8. East Texas	114,890	56.4%	32,916	98.1%	12,311	66.6%	160,117	64.3%
9. West Central	41,784	30.3%	9,156	46.3%	2,991	17.1%	53,931	31.9%
10. Upper Rio Grande	171,634	70.5%	128,258	50.9%	36,581	27.4%	336,473	56.9%
11. Permian Basin	63,019	48.3%	28,426	53.7%	8,446	24.3%	99,891	47.4%
12. Concho Valley	22,574	36.0%	7,776	47.2%	2,276	18.4%	32,626	37.1%
13. Heart of Texas	52,963	60.6%	15,291	73.4%	5,429	45.9%	73,682	61.9%
14. Capital Area	191,744	109.9%	98,601	98.2%	31,387	53.5%	321,733	99.2%
15. Rural Capitol	162,808	166.5%	62,003	156.4%	21,360	115.0%	246,171	158.5%
16. Brazos Valley	42,110	58.2%	16,197	66.6%	5,659	37.6%	63,966	58.1%
17. Deep East Texas	52,364	46.3%	11,543	72.2%	4,200	43.4%	68,107	50.0%
18. South East Texas	55,094	44.5%	15,562	100.8%	5,257	59.4%	75,913	54.4%
19. Golden Crescent	31,791	45.6%	8,001	49.9%	2,478	25.0%	42,271	45.0%
20. Alamo	380,466	60.6%	142,592	52.8%	41,775	24.3%	564,833	55.2%
21. South Texas	77,893	131.4%	50,930	79.2%	15,611	57.4%	144,433	100.6%
22. Coastal Bend	119,094	54.4%	33,045	55.3%	9,618	32.3%	161,756	53.1%
23. Lower Rio Grande	220,701	120.3%	163,143	81.6%	48,035	51.8%	431,878	94.8%
24. Cameron County	93,634	88.8%	66,237	63.3%	19,107	38.9%	178,978	72.2%
25. Texoma	23,150	45.7%	5,993	75.0%	2,253	45.6%	31,395	50.5%
26. Central Texas	74,878	94.9%	19,024	117.6%	6,658	74.8%	100,561	97.3%
27. Middle Rio Grande	34,055	53.9%	22,077	46.9%	5,956	27.7%	62,088	48.5%
28. Gulf Coast	1,096,776	99.9%	785,711	101.4%	248,270	62.5%	2,130,757	95.2%
State Totals	4,540,080	90.2%	2,570,786	96.9%	809,034	60.7%	7,919,901	88.8%

Table Notes: Projections assume rates of net migration that are half of those observed in the 1990s (0.5 migration scenario).
Source: Office of the State Demographer.

Next Steps

This report is the first companion paper to *A Primer on Adult Education in Texas*. The Council worked with the Office of the State Demographer to conduct further analyses of the current population in need of adult education services, a more detailed estimate of the future need for services based on projections for the Texas population, and the geographic dispersion of need in Texas by LWDA. This report offers a more comprehensive and authoritative determination of the current and future populations in need of adult education services. Additionally, this research can assist policy makers and program administrators to develop or modify policy and service delivery strategies.

Throughout 2010, the Council will conduct additional research on adult education topics to inform its policy discussions and recommendations. The topics identified for further research include a more detailed review of service delivery models, interagency coordination, and adult education program outcomes. Recommendations for policy and program administration will be offered in these future companion publications. This additional research will continue in 2010 and will be published in conjunction with the Council's quarterly meetings.

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Appendix A: Current Need for Adult Education by LWDA

This appendix presents the numbers of individuals over the age of 16 who qualify for adult education by each LWDA. The numbers were calculated by the Office of the State Demographer using the American Community Survey 2006-2008 three year estimates. The three year estimates describe the average social, economic, and demographic characteristics for the three year time period between 2006 and 2008. Individuals are considered not English fluent if they report speaking English “not well” or “not at all.” Percentages represent individuals in each column. The asterisks in each table are used as placeholders since English fluent individuals who have at least graduated high school do not qualify for adult education.

LWDA 1: Panhandle

Counties Served: Armstrong, Briscoe, Carson, Castro, Childress, Collingsworth, Dallam, Deaf Smith, Donley, Gray, Hall, Hansford, Hartley, Hemphill, Hutchinson, Lipscomb, Moore, Ochiltree, Oldham, Parmer, Potter, Randall, Roberts, Sherman, Swisher, Wheeler.

Table 7: LWDA 1 Panhandle- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	4,541	9.59%	668	36.36%	3,352	20.83%	8,562	13.12%
5th to 8th Grade	10,941	23.11%	446	24.28%	6,395	39.74%	17,782	27.24%
9th to 12th Grade (no diploma)	31,856	67.30%	183	9.96%	3,211	19.95%	35,251	54.01%
High School Graduate	*	*	357	19.43%	2,084	12.95%	2,441	3.74%
GED	*	*	78	4.25%	306	1.90%	384	0.59%
Some College to 2-yr Degree	*	*	101	5.50%	347	2.16%	448	0.69%
Bachelors Degree and Higher	*	*	4	0.22%	397	2.47%	401	0.61%
Total	47,338	100.00%	1,837	100.00%	16,093	100.00%	65,269	100.00%

LWDA 2: South Plains

Counties Served: Bailey, Cochran, Crosby, Dickens, Floyd, Hale, Hockley, King, Lamb, Lynn, Motley, Terry, Yoakum, Garza, Lubbock.

Table 8: LWDA 2 South Plains- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	5,230	11.74%	1,932	48.43%	1,827	25.79%	8,989	16.16%
5th to 8th Grade	11,484	25.77%	1,058	26.52%	3,094	43.68%	15,635	28.10%
9th to 12th Grade (no diploma)	27,856	62.50%	260	6.52%	1,023	14.44%	29,139	52.37%
High School Graduate	*	*	320	8.01%	530	7.49%	850	1.53%
GED	*	*	39	0.99%	258	3.65%	298	0.54%
Some College to 2-yr Degree	*	*	311	7.80%	125	1.76%	436	0.78%
Bachelors Degree and Higher	*	*	69	1.73%	226	3.19%	295	0.53%
Total	44,570	100.00%	3,989	100.00%	7,083	100.00%	55,642	100.00%

LWDA 3: North Texas

Counties Served: Archer, Baylor, Clay, Cottle, Foard, Hardeman, Jack, Montague, Wichita, Wilbarger, Young.

Table 9: LWDA 3 North Texas- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	1,596	6.48%	178	32.79%	813	22.71%	2,586	8.99%
5th to 8th Grade	5,337	21.66%	49	9.10%	1,359	37.98%	6,746	23.46%
9th to 12th Grade (no diploma)	17,703	71.86%	46	8.49%	615	17.17%	18,363	63.86%
High School Graduate	*	*	75	13.78%	542	15.13%	616	2.14%
GED	*	*	60	11.12%	22	0.61%	82	0.29%
Some College to 2-yr Degree	*	*	110	20.25%	193	5.39%	303	1.05%
Bachelors Degree and Higher	*	*	24	4.46%	36	1.01%	60	0.21%
Total	24,636	100.00%	542	100.00%	3,579	100.00%	28,757	100.00%

LWDA 4: North Central

Counties Served: Collin, Denton, Ellis, Erath, Hood, Hunt, Johnson, Kaufman, Navarro, Palo Pinto, Parker, Rockwall, Somervell, Wise.

Table 10: LWDA 4 North Central- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	13,097	9.00%	831	19.67%	8,895	11.77%	22,822	10.13%
5th to 8th Grade	31,375	21.57%	559	13.24%	24,710	32.70%	56,645	25.14%
9th to 12th Grade (no diploma)	101,015	69.43%	505	11.96%	16,440	21.75%	117,960	52.36%
High School Graduate	*	*	499	11.83%	13,893	18.38%	14,392	6.39%
GED	*	*	115	2.72%	1,123	1.49%	1,237	0.55%
Some College to 2-yr Degree	*	*	933	22.09%	5,412	7.16%	6,344	2.82%
Bachelors Degree and Higher	*	*	781	18.49%	5,098	6.75%	5,879	2.61%
Total	145,488	100.00%	4,223	100.00%	75,570	100.00%	225,281	100.00%

LWDA 5: Tarrant County

Counties Served: Tarrant.

Table 11: LWDA 5 Tarrant County- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	10,604	7.92%	927	16.79%	15,159	15.99%	26,690	11.40%
5th to 8th Grade	27,550	20.58%	905	16.40%	29,105	30.70%	57,560	24.58%
9th to 12th Grade (no diploma)	95,737	71.50%	645	11.68%	19,416	20.48%	115,798	49.44%
High School Graduate	*	*	1,213	21.98%	20,692	21.83%	21,905	9.35%
GED	*	*	79	1.44%	2,078	2.19%	2,157	0.92%
Some College to 2-yr Degree	*	*	948	17.17%	5,404	5.70%	6,352	2.71%
Bachelors Degree and Higher	*	*	803	14.54%	2,947	3.11%	3,750	1.60%
Total	133,891	100.00%	5,520	100.00%	94,801	100.00%	234,211	100.00%

LWDA 6: Dallas

Counties Served: Dallas.

Table 12: LWDA 6 Dallas- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	21,166	9.55%	1,675	17.52%	44,682	17.81%	67,523	14.00%
5th to 8th Grade	50,737	22.88%	2,691	28.15%	85,864	34.22%	139,292	28.89%
9th to 12th Grade (no diploma)	149,805	67.57%	1,687	17.64%	64,249	25.60%	215,741	44.74%
High School Graduate	*	*	893	9.33%	35,759	14.25%	36,652	7.60%
GED	*	*	638	6.67%	3,679	1.47%	4,316	0.90%
Some College to 2-yr Degree	*	*	910	9.52%	9,680	3.86%	10,590	2.20%
Bachelors Degree and Higher	*	*	1,068	11.17%	7,035	2.80%	8,103	1.68%
Total	221,708	100.00%	9,561	100.00%	250,948	100.00%	482,217	100.00%

LWDA 7: North East

Counties Served: Bowie, Cass, Delta, Franklin, Hopkins, Lamar, Morris, Red River, Titus.

Table 13: LWDA 7 North East- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	2,119	6.17%	78	19.07%	1,767	22.74%	3,964	9.32%
5th to 8th Grade	8,308	24.18%	84	20.54%	2,055	26.44%	10,447	24.56%
9th to 12th Grade (no diploma)	23,925	69.65%	17	4.16%	1,677	21.58%	25,619	60.23%
High School Graduate	*	*	91	22.25%	1,182	15.21%	1,273	2.99%
GED	*	*	0	0.00%	313	4.03%	313	0.74%
Some College to 2-yr Degree	*	*	139	33.99%	595	7.66%	734	1.73%
Bachelors Degree and Higher	*	*	0	0.00%	183	2.35%	183	0.43%
Total	34,352	100.00%	409	100.00%	7,773	100.00%	42,534	100.00%

LWDA 8: East Texas

Counties Served: Anderson, Camp, Cherokee, Gregg, Harrison, Henderson, Marion, Panola, Rains, Rusk, Smith, Upshur, Van Zandt, Wood.

Table 14: LWDA 8 East Texas- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	6,501	6.93%	367	24.29%	4,431	21.35%	11,299	9.74%
5th to 8th Grade	20,791	22.17%	244	16.15%	7,149	34.44%	28,184	24.29%
9th to 12th Grade (no diploma)	66,469	70.89%	198	13.10%	4,156	20.02%	70,823	61.04%
High School Graduate	*	*	299	19.76%	4,028	19.41%	4,327	3.73%
GED	*	*	14	0.96%	89	0.43%	103	0.09%
Some College to 2-yr Degree	*	*	258	17.07%	366	1.76%	624	0.54%
Bachelors Degree and Higher	*	*	131	8.67%	539	2.60%	670	0.58%
Total	93,761	100.00%	1,511	100.00%	20,758	100.00%	116,030	100.00%

LWDA 9: West Central

Counties Served: Brown, Callahan, Coleman, Comanche, Eastland, Fisher, Haskell, Jones, Kent, Knox, Mitchell, Nolan, Runnels, Scurry, Shackelford, Stephens, Stonewall, Taylor, Throckmorton.

Table 15: LWDA 9 West Central- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	3,770	9.66%	695	45.55%	1,775	35.86%	6,240	13.72%
5th to 8th Grade	9,134	23.41%	266	17.40%	1,596	32.24%	10,995	24.17%
9th to 12th Grade (no diploma)	26,113	66.93%	185	12.11%	874	17.66%	27,172	59.73%
High School Graduate	*	*	90	5.91%	508	10.26%	598	1.31%
GED	*	*	27	1.78%	32	0.64%	59	0.13%
Some College to 2-yr Degree	*	*	137	9.00%	79	1.59%	216	0.48%
Bachelors Degree and Higher	*	*	126	8.24%	86	1.74%	212	0.47%
Total	39,017	100.00%	1,526	100.00%	4,949	100.00%	45,492	100.00%

LWDA 10: Upper Rio Grande

Counties Served: Brewster, Culberson, El Paso, Hudspeth, Jeff Davis, Presidio.

Table 16: LWDA 10 Upper Rio Grande- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	7,081	11.33%	3,110	23.32%	18,610	20.83%	28,801	17.44%
5th to 8th Grade	16,016	25.62%	3,240	24.30%	32,799	36.71%	52,055	31.51%
9th to 12th Grade (no diploma)	39,404	63.05%	1,949	14.62%	14,281	15.99%	55,635	33.68%
High School Graduate	*	*	1,878	14.08%	10,392	11.63%	12,270	7.43%
GED	*	*	1,064	7.98%	4,766	5.33%	5,830	3.53%
Some College to 2-yr Degree	*	*	1,398	10.48%	5,387	6.03%	6,784	4.11%
Bachelors Degree and Higher	*	*	696	5.22%	3,107	3.48%	3,803	2.30%
Total	62,501	100.00%	13,335	100.00%	89,343	100.00%	165,179	100.00%

LWDA 11: Permian Basin

Counties Served: Andrews, Borden, Crane, Dawson, Ector, Gaines, Glasscock, Howard, Loving, Martin, Midland, Pecos, Reeves, Terrell, Upton, Ward, Winkler.

Table 17: LWDA 11 Permian Basin- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	4,461	8.76%	1,652	40.73%	5,766	27.35%	11,879	15.62%
5th to 8th Grade	13,736	26.98%	1,085	26.75%	8,204	38.92%	23,025	30.28%
9th to 12th Grade (no diploma)	32,711	64.25%	486	11.98%	3,883	18.42%	37,080	48.76%
High School Graduate	*	*	348	8.58%	1,917	9.09%	2,265	2.98%
GED	*	*	84	2.08%	352	1.67%	437	0.57%
Some College to 2-yr Degree	*	*	267	6.58%	748	3.55%	1,015	1.33%
Bachelors Degree and Higher	*	*	134	3.30%	210	1.00%	344	0.45%
Total	50,908	100.00%	4,057	100.00%	21,080	100.00%	76,044	100.00%

LWDA 12: Concho Valley

Counties Served: Coke, Concho, Crockett, Irion, Kimble, Mason, McCulloch, Menard, Reagan, Schleicher, Sterling, Sutton, Tom Green.

Table 18: LWDA 12 Concho Valley- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	2,076	11.31%	451	32.03%	1,121	26.37%	3,647	15.19%
5th to 8th Grade	4,660	25.38%	398	28.29%	1,454	34.23%	6,513	27.12%
9th to 12th Grade (no diploma)	11,625	63.31%	129	9.17%	943	22.20%	12,697	52.87%
High School Graduate	*	*	82	5.86%	381	8.96%	463	1.93%
GED	*	*	66	4.72%	203	4.78%	270	1.12%
Some College to 2-yr Degree	*	*	224	15.94%	115	2.69%	339	1.41%
Bachelors Degree and Higher	*	*	56	3.99%	33	0.77%	89	0.37%
Total	18,361	100.00%	1,407	100.00%	4,249	100.00%	24,018	100.00%

LWDA 13: Heart of Texas

Counties Served: Bosque, Falls, Freestone, Hill, Limestone, McLennan.

Table 19: LWDA 13 Heart of Texas- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	3,434	8.83%	185	15.84%	2,800	23.62%	6,420	12.37%
5th to 8th Grade	9,762	25.11%	330	28.19%	4,629	39.04%	14,720	28.36%
9th to 12th Grade (no diploma)	25,678	66.05%	209	17.85%	2,792	23.55%	28,679	55.26%
High School Graduate	*	*	95	8.09%	942	7.94%	1,036	2.00%
GED	*	*	0	0.00%	32	0.27%	32	0.06%
Some College to 2-yr Degree	*	*	217	18.58%	420	3.54%	637	1.23%
Bachelors Degree and Higher	*	*	134	11.46%	242	2.04%	376	0.72%
Total	38,874	100.00%	1,170	100.00%	11,856	100.00%	51,900	100.00%

LWDA 14: Capital Area

Counties Served: Travis.

Table 20: LWDA 14 Capital Area- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	7,191	12.66%	905	19.72%	10,526	17.24%	18,622	15.21%
5th to 8th Grade	14,009	24.67%	972	21.18%	19,915	32.62%	34,896	28.50%
9th to 12th Grade (no diploma)	35,595	62.67%	572	12.47%	11,483	18.81%	47,650	38.92%
High School Graduate	*	*	590	12.85%	12,224	20.02%	12,813	10.47%
GED	*	*	376	8.19%	831	1.36%	1,207	0.99%
Some College to 2-yr Degree	*	*	349	7.60%	3,611	5.92%	3,960	3.23%
Bachelors Degree and Higher	*	*	825	17.99%	2,455	4.02%	3,280	2.68%
Total	56,794	100.00%	4,588	100.00%	61,045	100.00%	122,428	100.00%

LWDA 15: Rural Capital

Counties Served: Bastrop, Blanco, Burnet, Caldwell, Fayette, Hays, Lee, Llano, Williamson.

Table 21: LWDA 15 Rural Capital- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	5,407	9.81%	1,155	32.79%	4,599	18.00%	11,162	13.26%
5th to 8th Grade	15,294	27.76%	824	23.39%	7,810	30.57%	23,928	28.43%
9th to 12th Grade (no diploma)	34,400	62.43%	282	7.99%	4,671	18.28%	39,352	46.75%
High School Graduate	*	*	572	16.23%	5,236	20.50%	5,808	6.90%
GED	*	*	70	1.99%	916	3.58%	986	1.17%
Some College to 2-yr Degree	*	*	246	6.98%	1,230	4.82%	1,476	1.75%
Bachelors Degree and Higher	*	*	374	10.63%	1,085	4.25%	1,459	1.73%
Total	55,101	100.00%	3,523	100.00%	25,546	100.00%	84,170	100.00%

LWDA 16: Brazos Valley

Counties Served: Brazos, Burleson, Grimes, Leon, Madison, Robertson, Washington.

Table 22: LWDA 16 Brazos Valley- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	2,101	8.00%	125	26.01%	1,444	16.22%	3,670	10.30%
5th to 8th Grade	6,679	25.43%	175	36.40%	3,841	43.15%	10,695	30.00%
9th to 12th Grade (no diploma)	17,486	66.57%	17	3.57%	1,463	16.44%	18,967	53.20%
High School Graduate	*	*	70	14.55%	1,373	15.43%	1,443	4.05%
GED	*	*	0	0.00%	0	0.00%	0	0.00%
Some College to 2-yr Degree	*	*	90	18.68%	570	6.40%	660	1.85%
Bachelors Degree and Higher	*	*	4	0.79%	210	2.36%	214	0.60%
Total	26,267	100.00%	481	100.00%	8,901	100.00%	35,648	100.00%

LWDA 17: Deep East Texas

Counties Served: Angelina, Houston, Jasper, Nacogdoches, Newton, Polk, Sabine, San Augustine, San Jacinto, Shelby, Trinity, Tyler.

Table 23: LWDA 17 Deep East Texas- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	3,204	6.48%	127	14.97%	1,930	19.49%	5,261	8.73%
5th to 8th Grade	11,976	24.20%	82	9.66%	3,740	37.77%	15,798	26.23%
9th to 12th Grade (no diploma)	34,303	69.32%	59	6.99%	1,573	15.89%	35,936	59.66%
High School Graduate	*	*	50	5.90%	1,658	16.74%	1,708	2.84%
GED	*	*	310	36.54%	0	0.00%	310	0.51%
Some College to 2-yr Degree	*	*	58	6.84%	676	6.83%	734	1.22%
Bachelors Degree and Higher	*	*	162	19.10%	325	3.28%	487	0.81%
Total	49,484	100.00%	848	100.00%	9,902	100.00%	60,234	100.00%

LWDA 18: South East Texas

Counties Served: Hardin, Jefferson, Orange.

Table 24: LWDA 18 South East Texas- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	3,109	7.25%	38	9.57%	2,225	25.47%	5,372	10.33%
5th to 8th Grade	8,967	20.92%	33	8.31%	2,264	25.92%	11,264	21.67%
9th to 12th Grade (no diploma)	30,778	71.82%	21	5.29%	2,022	23.15%	32,821	63.13%
High School Graduate	*	*	78	19.65%	1,626	18.61%	1,704	3.28%
GED	*	*	0	0.00%	137	1.57%	137	0.26%
Some College to 2-yr Degree	*	*	159	40.05%	313	3.58%	472	0.91%
Bachelors Degree and Higher	*	*	68	17.13%	148	1.69%	216	0.42%
Total	42,854	100.00%	397	100.00%	8,735	100.00%	51,986	100.00%

LWDA 19: Golden Crescent

Counties Served: Calhoun, DeWitt, Goliad, Gonzales, Jackson, Lavaca, Victoria.

Table 25: LWDA 19 Golden Crescent- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	2,818	11.06%	580	41.38%	1,720	35.67%	5,117	16.14%
5th to 8th Grade	6,690	26.26%	320	22.83%	1,384	28.71%	8,394	26.48%
9th to 12th Grade (no diploma)	15,971	62.68%	136	9.68%	674	13.98%	16,780	52.93%
High School Graduate	*	*	171	12.22%	389	8.07%	560	1.77%
GED	*	*	17	1.22%	294	6.09%	311	0.98%
Some College to 2-yr Degree	*	*	123	8.78%	326	6.77%	449	1.42%
Bachelors Degree and Higher	*	*	54	3.88%	34	0.70%	88	0.28%
Total	25,479	100.00%	1,400	100.00%	4,820	100.00%	31,700	100.00%

LWDA 20: Alamo

Counties Served: Atascosa, Bandera, Bexar, Comal, Frio, Gillespie, Guadalupe, Karnes, Kendall, Kerr, Medina, Wilson.

Table 26: LWDA 20 Alamo- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	22,111	10.72%	4,975	25.47%	15,728	20.61%	42,814	14.18%
5th to 8th Grade	52,738	25.58%	4,486	22.96%	22,472	29.45%	79,697	26.39%
9th to 12th Grade (no diploma)	131,321	63.70%	2,489	12.74%	13,503	17.69%	147,314	48.78%
High School Graduate	*	*	2,973	15.22%	14,622	19.16%	17,595	5.83%
GED	*	*	661	3.38%	3,021	3.96%	3,682	1.22%
Some College to 2-yr Degree	*	*	2,585	13.23%	4,584	6.01%	7,169	2.37%
Bachelors Degree and Higher	*	*	1,366	6.99%	2,386	3.13%	3,752	1.24%
Total	206,170	100.00%	19,536	100.00%	76,316	100.00%	302,022	100.00%

LWDA 21: South Texas

Counties Served: Jim Hogg, Webb, Zapata.

Table 27: LWDA 21 South Texas- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	2,256	10.63%	2,859	28.52%	7,024	18.45%	12,138	17.51%
5th to 8th Grade	6,749	31.81%	2,145	21.40%	12,506	32.85%	21,399	30.87%
9th to 12th Grade (no diploma)	12,211	57.56%	1,766	17.62%	7,348	19.30%	21,326	30.77%
High School Graduate	*	*	1,804	18.00%	5,174	13.59%	6,978	10.07%
GED	*	*	262	2.62%	631	1.66%	893	1.29%
Some College to 2-yr Degree	*	*	794	7.92%	3,282	8.62%	4,076	5.88%
Bachelors Degree and Higher	*	*	394	3.93%	2,108	5.54%	2,501	3.61%
Total	21,215	100.00%	10,024	100.00%	38,072	100.00%	69,311	100.00%

LWDA 22: Coastal Bend

Counties Served: Aransas, Bee, Brooks, Duval, Jim Wells, Kenedy, Kleberg, Live Oak, McMullen, Nueces, Refugio, San Patricio.

Table 28: LWDA 22 Coastal Bend- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	7,228	9.58%	5,392	45.94%	4,002	25.62%	16,623	16.17%
5th to 8th Grade	20,703	27.45%	3,274	27.89%	6,077	38.89%	30,054	29.24%
9th to 12th Grade (no diploma)	47,500	62.97%	1,008	8.59%	1,989	12.73%	50,497	49.12%
High School Graduate	*	*	830	7.07%	2,022	12.94%	2,853	2.78%
GED	*	*	290	2.47%	295	1.89%	585	0.57%
Some College to 2-yr Degree	*	*	689	5.87%	693	4.44%	1,382	1.34%
Bachelors Degree and Higher	*	*	253	2.16%	546	3.50%	799	0.78%
Total	75,431	100.00%	11,737	100.00%	15,624	100.00%	102,793	100.00%

LWDA 23: Lower Rio Grande Valley

Counties Served: Hidalgo, Starr, Willacy.

Table 29: LWDA 23 Lower Rio Grande Valley- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	10,448	13.00%	9,538	44.77%	28,572	24.09%	48,559	22.04%
5th to 8th Grade	24,422	30.38%	6,020	28.26%	43,526	36.69%	73,968	33.57%
9th to 12th Grade (no diploma)	45,521	56.62%	2,595	12.18%	19,031	16.04%	67,146	30.48%
High School Graduate	*	*	1,317	6.18%	17,301	14.58%	18,617	8.45%
GED	*	*	677	3.18%	608	0.51%	1,285	0.58%
Some College to 2-yr Degree	*	*	804	3.77%	5,154	4.34%	5,958	2.70%
Bachelors Degree and Higher	*	*	353	1.66%	4,439	3.74%	4,792	2.18%
Total	80,391	100.00%	21,304	100.00%	118,630	100.00%	220,325	100.00%

LWDA 24: Cameron County

Counties Served: Cameron.

Table 30: LWDA 24 Cameron County- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	5,366	13.30%	3,747	38.94%	11,597	22.99%	20,710	20.62%
5th to 8th Grade	12,480	30.94%	3,042	31.62%	19,632	38.91%	35,154	35.01%
9th to 12th Grade (no diploma)	22,493	55.76%	1,158	12.03%	7,964	15.78%	31,615	31.48%
High School Graduate	*	*	800	8.31%	5,098	10.10%	5,898	5.87%
GED	*	*	0	0.00%	1,208	2.40%	1,208	1.20%
Some College to 2-yr Degree	*	*	575	5.98%	2,988	5.92%	3,563	3.55%
Bachelors Degree and Higher	*	*	300	3.12%	1,967	3.90%	2,267	2.26%
Total	40,339	100.00%	9,622	100.00%	50,454	100.00%	100,415	100.00%

LWDA 25: Texoma

Counties Served: Cooke, Fannin, Grayson.

Table 31: LWDA 25 Texoma- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	1,149	6.10%	50	15.75%	508	12.14%	1,708	7.32%
5th to 8th Grade	4,249	22.55%	155	48.65%	1,834	43.83%	6,239	26.72%
9th to 12th Grade (no diploma)	13,443	71.35%	27	8.45%	1,138	27.21%	14,608	62.57%
High School Graduate	*	*	6	1.79%	531	12.68%	536	2.30%
GED	*	*	0	0.00%	0	0.00%	0	0.00%
Some College to 2-yr Degree	*	*	41	12.75%	134	3.19%	174	0.75%
Bachelors Degree and Higher	*	*	40	12.61%	39	0.94%	80	0.34%
Total	18,841	100.00%	320	100.00%	4,184	100.00%	23,345	100.00%

LWDA 26: Central Texas

Counties Served: Bell, Coryell, Hamilton, Lampasas, Milam, Mills, San Saba.

Table 32: LWDA 26 Central Texas- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	3,296	10.16%	198	9.68%	951	15.85%	4,445	10.97%
5th to 8th Grade	6,783	20.90%	647	31.66%	2,062	34.37%	9,492	23.44%
9th to 12th Grade (no diploma)	22,376	68.95%	550	26.91%	1,241	20.68%	24,168	59.67%
High School Graduate	*	*	254	12.42%	986	16.43%	1,240	3.06%
GED	*	*	53	2.59%	129	2.15%	182	0.45%
Some College to 2-yr Degree	*	*	229	11.21%	369	6.16%	599	1.48%
Bachelors Degree and Higher	*	*	113	5.53%	262	4.37%	375	0.93%
Total	32,455	100.00%	2,044	100.00%	6,001	100.00%	40,500	100.00%

LWDA 27: Middle Rio Grande

Counties Served: Dimmit, Edwards, Kinney, LaSalle, Maverick, Real, Uvalde, Val Verde, Zavala.

Table 33: LWDA 27 Middle Rio Grande- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	2,993	15.03%	2,355	39.79%	5,903	31.98%	11,251	25.41%
5th to 8th Grade	5,751	28.88%	1,884	31.84%	5,585	30.26%	13,219	29.85%
9th to 12th Grade (no diploma)	11,166	56.08%	656	11.08%	3,306	17.91%	15,128	34.16%
High School Graduate	*	*	700	11.83%	1,798	9.74%	2,497	5.64%
GED	*	*	0	0.00%	147	0.80%	147	0.33%
Some College to 2-yr Degree	*	*	172	2.91%	776	4.20%	948	2.14%
Bachelors Degree and Higher	*	*	151	2.55%	944	5.11%	1,095	2.47%
Total	19,910	100.00%	5,917	100.00%	18,458	100.00%	44,285	100.00%

LWDA 28: Gulf Coast

Counties Served: Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Harris, Liberty, Matagorda, Montgomery, Walker, Waller, Wharton.

Table 34: LWDA 28 Gulf Coast- Individuals Eligible for Adult Education Services (2006-2008)

Educational Attainment	English Fluent		Not English Fluent, Native Born		Not English Fluent, Foreign Born		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0 to 4th Grade	44,161	8.89%	5,576	21.17%	74,513	16.69%	124,250	12.82%
5th to 8th Grade	114,745	23.10%	7,021	26.66%	145,640	32.63%	267,406	27.58%
9th to 12th Grade (no diploma)	337,794	68.01%	3,557	13.51%	86,281	19.33%	427,632	44.11%
High School Graduate	*	*	4,210	15.98%	84,536	18.94%	88,746	9.15%
GED	*	*	1,011	3.84%	6,747	1.51%	7,758	0.80%
Some College to 2-yr Degree	*	*	2,847	10.81%	27,597	6.18%	30,444	3.14%
Bachelors Degree and Higher	*	*	2,115	8.03%	21,063	4.72%	23,178	2.39%
Total	496,700	100.00%	26,337	100.00%	446,377	100.00%	969,414	100.00%

Appendix B: Projection Methodologies

The technical discussion about the projection methodologies contained in this appendix was provided by the Office of the State Demographer. This appendix extensively details the procedures and supporting rationale behind the statewide and regional adult education projections. Although the tables have been reformatted and minor stylistic edits have been made to be consistent with the rest of the paper, the following information in this appendix must be credited to the Office of the State Demographer.

Methodology of the Adult Education Projection

The future population in need of adult education in the state of Texas is strongly influenced by the volume of international migration to the state. This is the case because lack of English language literacy and low education are two of the principal markers of membership in the adult education service population. Both attributes are strongly associated with foreign birth.

The Texas State Data Center prepares projections of the population of the state by age, sex, race and Hispanic origin, using a cohort component methodology. This method assumes the continuation of current trends in age-sex-race-Hispanic origin birth and death rates, and uses this information along with information about the current size of the population by these attributes to predict future population. Change to the population because of migration from other states and other countries is handled using several scenarios of possible future migration. The State Data Center publishes four such scenarios, based respectively on

1. The age-sex-race-Hispanic origin net migration rates observed in the 1990s (1.0 scenario);
2. An assumed reduction of those rates by one-half (0.5 scenario);
3. The inferred net migration rates in a period after the census (from 2000 to 2004); and
4. An assumption of no migration.

The methodology for these projections is further documented on the website of the Texas State Data Center (Texas State Data Center, 2009).

The last, no migration, projection is not realistic. Texas has experienced net in-migration consistently in each year since the state's recovery from the oil bust of the 1980s. The no migration scenario is calculated in order to serve as a reference tool to understand the effects of migration on the state's migration. The Office of the State Demographer recommends the 0.5 scenario (one-half of net migration observed in the 1990s) as the most plausible scenario for predicting long term population growth in the state. It recommends the 2000-2004 scenario for shorter term projections, for example, of less than 10 years. These are, however, subjective judgments, and by no means constitute a certainty.

The State Data Center projections have frequently been used to project future service demand for the state (Murdock et al., 2002). This is done by making assumptions about the relationship between the projected population by detailed demographic group and the projected characteristic. For example, if we assume that the percentage of the population with a high school diploma remains unchanged over time in detailed demographic groups by age-sex-race-Hispanic origin, we could project the overall number and percentage of persons with a high school diploma, using the projection of the underlying demographic characteristics, and then applying the current rates. Alternatively, we can apply assumptions about trends in the group specific percentage with a diploma, to project future education levels in we believe that rates will increase or decrease.

The State Data Center projections do not explicitly project the size of the international immigrant population. The migration components used in these projections combine domestic and international migration, and do not explicitly estimate a stock of resident in-migrants. The rapid growth of the Hispanic population to some extent gives an indication of the growth of the immigrant population, and reflects the growth of a population that has been strongly shaped by recent migration, and whose social characteristics reflect the presence of a substantial minority of immigrants.

However, as time goes on, the composition of the Hispanic population by nativity status can be expected to change. As Table 1 shows, there is a sizable population of U.S.-born Hispanic children and teenagers who are poised to join the workforce age population over the next decade and a half. Given current domestic migration patterns, as this population ages, its size will be increased by net migration of Hispanics from other states. The future composition of the adult Hispanic population by immigrant status may change sharply over time as these U.S.-born children age into the adult population, Will the foreign-born adult Hispanic population keep pace with the projected growth of the U.S.-born population, or will its share diminish over time? The size of the U.S.-born population is relatively easy to forecast. The answer to this question is conditional on the levels of net international migration to and from the state.

Table 35: Hispanic Population by Age and Immigrant Status, 2008

Hispanic Population	All	Less than 18	Age 18 or older
Total	8,870,472	3,111,458	5,759,014
Native	6,051,276	2,867,332	3,183,944
Immigrant	2,819,196	244,126	2,575,070
Percent Immigrant	31.80%	7.80%	44.70%

Source: American Community Survey, 2008.

In order to project the number of immigrants to the state within the framework of the Texas State Data Center projection program, we used the already developed projection scenarios. These scenarios included projections of the number of net migrants by ethnicity for each year out to the projection horizon of 2040. We selected two scenarios as most realistic: the one-half of 1990-2000 scenario (0.5 scenario), the recommended long term scenario, and the 2000-2004 scenario, the recommend short-

term projection scenario. The numbers of net migrants do not distinguish migrants to Texas from other states or from other countries.

We allocated these total net migration numbers in each year to foreign and domestic migration, by assigning a share of each migration year's estimated total net migration flows to foreign or domestic migration, using shares derived from Census Bureau estimates of the relative size of domestic and international migration flows to Texas in this decade. These numbers have fluctuated sharply throughout the decade, from 76% international migration in 2003-2004 to 31% international migration in 2005-2006, when domestic migration was increased by Katrina evacuees. We estimated several scenarios, and then chose to apply the assumption that 60% of net migration flows anticipated in each projection model were international flows, which approximates the overall average for this decade, eliminating the Katrina influenced migration in 2005. This resulting in the following projected flows to the state:

Table 36: Projected International Migration to Texas, Selected Years Assuming 60% of Migration is International (Texas State Data Center Projections)

Scenario	2010	2020	2030	2040
0.5 Scenario	86,297	107,535	129,918	153,143
2000-2004 Scenario	138,595	192,907	258,727	338,693

We compared the resulting projection numbers to recent projections for the United States by the Census Bureau (U.S. Census Bureau, 2009b). The Census Bureau reports four projections that vary by projected international migration scenario. These scenarios have not been calculated for specific states, but applying the fractional share (10.4%) of net international migration to the United States that was assigned to Texas in Census Bureau estimates reported this decade yields approximate estimates of the annual Texas share implied by each scenario.

Table 37: Hypothetical Annual Net Migration to Texas, U.S. Bureau of the Census Migration Projection Scenarios, Applying 10.4% Share of Net Migration to Texas

Scenario	2010	2020	2030	2040
2008 National Projections	137,814	151,719	171,392	191,065
High Net International Migration Series	159,650	176,748	199,717	222,686
Low Net International Migration Series	119,171	130,192	147,084	163,976
Constant Net International Migration Series	100,425	100,425	100,425	100,425

These comparisons suggest that the Texas State Data Center 2000-2004 projection scenario is high compared with any of the Census Bureau projections, unless the proportional share of international migration is greatly reduced relative to domestic flows as we have assumed, or Texas' share of net international migration increases. Neither assumption seems warranted. By contrast the assumptions in the 0.5 scenario are relatively compatible with those in the Bureau's Low Net International Migration series, though the Texas totals run behind those in the Bureau's model. The inferred migration in 2010

is compatible with the recent volume of net international migration flows to the state as reported in census estimates (U.S. Census Bureau, 2009c).

Of course, this exercise is substantially speculative with respect to what will actually happen in future migration to the state. Our ability to predict future migration flows on a theoretical basis is weak. However, the comparisons illustrate one reason that the State Data Center 0.5 migration scenario remains the preferred one for long term forecasts. All other scenarios imply either a substantial increase in the number of international migrants to the state over the next several decades, or large increases in domestic migration. Neither expectation appears strongly grounded in the demographic situation of the state or its principal migration partners. Specifically, the declining rate of growth of the Mexican labor force over the next several decades may weaken the push-factors sustaining illegal migration to the state from Mexico, while the aging of the population of the United States may also put downward pressure on domestic migration flows.

The last set of assumptions about the composition of international migration that we made was derived by calculating the composition of recent immigrants to the state from the 2006-2008 American Community Survey microdata file (U.S. Census Bureau, 2009d) by age-sex-race-Hispanic origin. These were then applied to the total number of migrants calculated by the above methodology. The inferred migration flows were allocated to age-sex-race-Hispanic origin categories. Mortality assumptions were applied to the inferred immigrant population that were identical to those used for the state's resident population.

The two migration scenarios estimated imply a future growth of the state's foreign-born population from approximately 3.9 million today to between 6.5 million (0.5 scenario) and 9.8 million (2000-2004 scenario) in 2040. Though these increases are large, they also imply modest increases only in the percentage of the state's population that is foreign-born, as well as a declining share of the state's Hispanic population that is foreign-born. Other significant changes implied by these assumptions are that the Hispanic foreign-born population will significantly age both in terms of chronological age, but also in terms of years of experience living in the United States. That is to say, unless international migration to the state increases substantially in future years, the current resident foreign-born population may be expected to grow older in terms of age and U.S. experience, and form thereby a relatively large share of the state's foreign-born population. Exploring the implications of these projected changes is beyond the scope of this project. Relevant to this project, they do imply rising English language fluency in the foreign-born Hispanic population in the state.

Allocating the Foreign-Born to Workforce Regions

The adaption of the projections of the foreign-born population was calculated at the state level, and then allocated to work force regions to make estimates of the population in need of adult education in each region. The allocations were made by assuming that the growth of the foreign-born population in each age-sex-race-Hispanic origin group was proportional to the projected growth of the group as a whole within each region. This growth is conditional on migration, both domestic and international.

This means that areas projected for faster growth based on net migration components in the base State Data Center projection models were allocated a larger share of the foreign-born population. We did not attempt to forecast changing regional patterns of international migration within the state. The resulting regional projections were controlled algebraically to equal projected statewide totals of the foreign-born.

Converting the Foreign-Born Projections to Adult Education Projections

The final step in the projection of adult education need was to apply age-sex-race-ethnicity-immigrant status-specific rates of education and English language fluency to the projected population of the state and workforce regions in each group. The education categories we used were holding a high school diploma or higher credential, versus being a high school dropout who was at least 16 years old. Fluency categories were those speaking English only, very well or well versus those speaking English not well, not at all. These rates were derived from the 2006-2008 sample of the American Community Survey for Texas. Use of more detailed educational attainment levels did not seem warranted on the basis of available evidence.

Appendix C: Projected Need for Adult Education by LWDA

This appendix presents the projected numbers of individuals over the age of 16 who will qualify for adult education by each LWDA in 2010, 2020, 2030, and 2040. The numbers were calculated by the Office of the State Demographer using the projection methodology detailed in Appendix B. In short, the projections assumed rates of net migration that are half of those observed in the 1990s (the 0.5 migration scenario), then a portion of the total foreign-born population was allocated to each work force region based on the region's projected growth, and finally the percentages of the population needing adult education were calculated for each LWDA by applying statewide rates from the 2006-2008 American Community Survey. Individuals are considered not English fluent if they report speaking English "not well" or "not at all."

LWDA 1: Panhandle

Table 38: LWDA 1 Panhandle- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Panhandle	2010	41,023	13,102	5,313	59,438
	2020	49,158	15,983	5,976	71,117
	2030	58,552	19,139	6,536	84,227
	2040	66,363	22,486	7,202	96,051

LWDA 2: South Plains

Table 39: LWDA 2 South Plains- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
South Plains	2010	42,078	10,158	3,947	56,182
	2020	48,599	12,286	4,395	65,280
	2030	56,083	14,575	4,775	75,433
	2040	60,892	16,114	5,044	82,050

LWDA 3: North Texas

Table 40: LWDA 3 North Texas- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
North Texas	2010	20,454	4,692	1,925	27,070
	2020	22,821	5,772	2,198	30,791
	2030	25,831	7,041	2,458	35,330
	2040	27,345	7,867	2,644	37,857

LWDA 4: North Central

Table 41: LWDA 4 North Central- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
North Central	2010	164,141	82,621	34,868	281,630
	2020	233,530	120,667	47,126	401,323
	2030	321,256	171,051	61,005	553,313
	2040	415,397	238,679	79,455	733,531

LWDA 5: Tarrant County

Table 42: LWDA 5 Tarrant County- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Tarrant County	2010	146,710	76,127	31,107	253,944
	2020	191,212	103,921	39,009	334,141
	2030	244,798	135,653	46,784	427,234
	2040	299,933	173,307	55,838	529,078

LWDA 6: Dallas

Table 43: LWDA 6 Dallas- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Dallas	2010	251,095	178,852	71,333	501,280
	2020	327,645	239,473	87,931	655,049
	2030	418,801	307,064	103,914	829,780
	2040	514,504	381,961	120,534	1,016,999

LWDA 7: North East

Table 44: LWDA 7 North East- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
North East	2010	25,284	5,261	2,293	32,838
	2020	28,406	6,276	2,495	37,177
	2030	31,293	7,126	2,581	41,000
	2040	32,226	7,891	2,658	42,775

LWDA 8: East Texas

Table 45: LWDA 8 East Texas- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
East Texas	2010	73,471	16,612	7,392	97,475
	2020	86,725	21,343	8,893	116,961
	2030	102,354	26,397	10,297	139,049
	2040	114,890	32,916	12,311	160,117

LWDA 9: West Central

Table 46: LWDA 9 West Central- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
West Central	2010	32,074	6,260	2,553	40,888
	2020	35,704	7,291	2,720	45,716
	2030	39,987	8,389	2,865	51,242
	2040	41,784	9,156	2,991	53,931

LWDA 10: Upper Rio Grande

Table 47: LWDA 10 Upper Rio Grande- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Upper Rio Grande	2010	100,680	85,006	28,706	214,392
	2020	121,442	99,515	31,794	252,751
	2030	146,925	115,835	34,374	297,134
	2040	171,634	128,258	36,581	336,473

LWDA 11: Permian Basin

Table 48: LWDA 11 Permian Basin- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Permian Basin	2010	42,483	18,494	6,796	67,773
	2020	49,380	21,961	7,461	78,802
	2030	57,542	25,719	8,008	91,269
	2040	63,019	28,426	8,446	99,891

LWDA 12: Concho Valley

Table 49: LWDA 12 Concho Valley- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Concho Valley	2010	16,594	5,283	1,922	23,799
	2020	18,957	6,182	2,081	27,220
	2030	21,395	7,187	2,199	30,782
	2040	22,574	7,776	2,276	32,626

LWDA 13: Heart of Texas

Table 50: LWDA 13 Heart of Texas- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Heart of Texas	2010	32,981	8,821	3,720	45,522
	2020	39,083	10,734	4,280	54,097
	2030	46,725	13,085	4,826	64,636
	2040	52,963	15,291	5,429	73,682

LWDA 14: Capital Area

Table 51: LWDA 14 Capital Area- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Capital Area	2010	91,331	49,741	20,443	161,515
	2020	122,204	64,580	24,429	211,212
	2030	158,540	82,456	28,352	269,348
	2040	191,744	98,601	31,387	321,733

LWDA 15: Rural Capital

Table 52: LWDA 15 Rural Capital- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Rural Capitol	2010	61,102	24,184	9,933	95,220
	2020	87,557	33,815	13,091	134,463
	2030	123,240	46,415	16,710	186,365
	2040	162,808	62,003	21,360	246,171

LWDA 16: Brazos Valley

Table 53: LWDA 16 Brazos Valley- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Brazos Valley	2010	26,625	9,720	4,114	40,459
	2020	31,877	11,529	4,587	47,993
	2030	37,813	13,861	5,091	56,765
	2040	42,110	16,197	5,659	63,966

LWDA 17: Deep East Texas

Table 54: LWDA 17 Deep East Texas- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Deep East Texas	2010	35,782	6,704	2,930	45,416
	2020	41,556	8,188	3,340	53,085
	2030	47,902	9,745	3,703	61,350
	2040	52,364	11,543	4,200	68,107

LWDA 18: South East Texas

Table 55: LWDA 18 South East Texas- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
South East Texas	2010	38,129	7,751	3,298	49,179
	2020	43,708	10,025	3,930	57,663
	2030	50,246	12,595	4,516	67,356
	2040	55,094	15,562	5,257	75,913

LWDA 19: Golden Crescent

Table 56: LWDA 19 Golden Crescent- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Golden Crescent	2010	21,834	5,339	1,983	29,156
	2020	25,235	6,192	2,151	33,578
	2030	29,163	7,159	2,304	38,626
	2040	31,791	8,001	2,478	42,271

LWDA 20: Alamo

Table 57: LWDA 20 Alamo - Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Alamo	2010	236,925	93,298	33,617	363,839
	2020	286,374	110,546	36,965	433,885
	2030	339,461	128,193	39,459	507,113
	2040	380,466	142,592	41,775	564,833

LWDA 21: South Texas

Table 58: LWDA 21 South Texas- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
South Texas	2010	33,666	28,423	9,915	72,004
	2020	44,850	35,168	11,746	91,763
	2030	60,038	42,872	13,588	116,498
	2040	77,893	50,930	15,611	144,433

LWDA 22: Coastal Bend

Table 59: LWDA 22 Coastal Bend - Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Coastal Bend	2010	77,146	21,272	7,268	105,686
	2020	91,197	25,295	8,104	124,596
	2030	106,907	29,848	8,908	145,662
	2040	119,094	33,045	9,618	161,756

LWDA 23: Lower Rio Grande Valley

Table 60: LWDA 23 Lower Rio Grande Valley- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Lower Rio Grande	2010	100,181	89,815	31,652	221,648
	2020	132,487	112,016	37,123	281,627
	2030	173,671	136,204	42,229	352,103
	2040	220,701	163,143	48,035	431,878

LWDA 24: Cameron County

Table 61: LWDA 24 Cameron County- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Cameron County	2010	49,602	40,558	13,756	103,916
	2020	61,914	49,003	15,673	126,589
	2030	77,492	57,978	17,428	152,898
	2040	93,634	66,237	19,107	178,978

LWDA 25: Texoma

Table 62: LWDA 25 Texoma- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Texoma	2010	15,888	3,423	1,547	20,858
	2020	18,364	4,278	1,806	24,448
	2030	21,314	5,152	2,019	28,485
	2040	23,150	5,993	2,253	31,395

LWDA 26: Central Texas

Table 63: LWDA 26 Central- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Central Texas	2010	38,418	8,744	3,808	50,970
	2020	48,977	11,825	4,763	65,565
	2030	62,386	15,731	5,797	83,914
	2040	74,878	19,024	6,658	100,561

LWDA 27: Middle Rio Grande

Table 64: LWDA 27 Middle Rio Grande- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Middle Rio Grande	2010	22,131	15,025	4,663	41,820
	2020	25,760	17,560	5,203	48,523
	2030	29,975	19,961	5,594	55,530
	2040	34,055	22,077	5,956	62,088

LWDA 28: Gulf Coast

Table 65: LWDA 28 Gulf Coast- Projected Numbers of Individuals Eligible for Adult Education Services (2010-2040)

LWDA	Year	Less than HS, English Fluent	Less than HS, Not English Fluent	HS and above, Not English Fluent	Total
Gulf Coast	2010	548,775	390,119	152,794	1,091,689
	2020	714,044	512,647	185,842	1,412,533
	2030	906,842	647,383	216,633	1,770,858
	2040	1,096,776	785,711	248,270	2,130,757