## How Far Behind in Math and Reading are English Language Learners?

Richard Fry<br>Senior Research Associate, Pew Hispanic Center

As Congress considers the reauthorization of the No Child Left Behind (NCLB) law, an analysis of recent data from standardized testing around the country shows that the fast growing number of students designated as English language learners (ELL) are among those farthest behind. The analysis of national standardized testing scores shows that about $51 \%$ of $8^{\text {th }}$ grade ELL students are behind whites in reading and math, meaning that the scores for one out of every two will have to improve for the group to achieve parity. In the 4th grade, $35 \%$ of ELL students are behind in math and $47 \%$ are behind in reading when compared with their white counterparts.

The analysis of demographic data shows that important changes in the composition of the limited English speaking population take place between the 4th and 8th grades, which help explain the decline in achievement from elementary to middle school. Many students are moved out of limited English speaking status as they acquire language skills while many newly arrived immigrant children are added to the group.

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## Executive Summary

As Congress considers the reauthorization of the No Child Left Behind (NCLB) law an analysis of recent data from standardized testing around the country shows that the fast growing number of students designated as English language learners are among those farthest behind.

The results of national testing conducted in 2005 shows that nearly half (46\%) of 4th grade students in the English language learner (ELL) category scored "below basic" in mathematics in 2005-the lowest level possible. Nearly three quarters (73\%) scored below basic in reading. In middle school achievement in mathematics was lower still, with more than two-thirds (71\%) of 8th grade ELL students scoring below basic. Meanwhile, the same share (71\%) of 8th grade ELL students scored below basic in reading.

The NCLB legislation is due for congressional reauthorization in 2007. In its current form the law requires that all students be proficient in math and reading by 2014 according to standards and testing programs developed individually by each state. Specific categories of students, including ELL students, must meet proficiency standards as a group. To produce a measure of how much achievement among ELL students might have to be improved in order to meet federal mandates, this report compares their scores to those of white, black and Hispanic students. ${ }^{1}$

The analysis of national standardized testing scores shows that about $51 \%$ of $8^{\text {th }}$ grade ELL students are behind whites in reading and math, meaning that the scores for one out of every two will have to improve for the group to achieve parity. In the 4th grade, $35 \%$ of ELL students are behind in math and $47 \%$ are behind in reading when compared with their white counterparts. The report also compares scores for ELL students to those of black and Hispanics students and finds smaller but still substantial gaps.

These findings are based on the 2005 National Assessment of Educational Progress (NAEP), also known as the "Nation's Report Card," which is the most authoritative source of standardized testing data for public school students across the country. The NAEP also allows for comparisons among many states because the testing program is the same nationwide. The NCLB law does not require proficiency measures based on NAEP scores. Nonetheless, this analysis offers the best available assessment of current achievement by ELL students as the effort to ensure that all students meet proficiency standards enters a critical phase.

[^1]Moreover, this report also examines data from individual testing programs administered in many states that are the basis for meeting the federal mandates, and this data confirms the basic findings from the NAEP on the status of ELL students.

In addition, the report uses demographic data, for the nation and for some states, to analyze some of the characteristics of limited English speaking students at different grade levels. This analysis shows that important changes in the composition of the limited English speaking population take place between the 4th and 8th grades, which help explain the decline in achievement from elementary to middle school. Many students are moved out of limited English speaking status as they acquire language skills while many newly arrived immigrant children are added to the group.


## About the Author

Richard Fry conducts empirical research on education and labor market characteristics of U.S. racial and ethnic populations. Before joining the Pew Hispanic Center, Fry was a senior economist at the Educational Testing Service, where he focused on trends in U.S. college enrollment.

## A Note on Terminology

The terms Hispanic and Latino are used interchangeably in this report.

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## Introduction

Under the No Child Left Behind Act of 2001 (NCLB), states are required to ensure that all public school students meet standards of proficiency in math and reading by 2014, and levels of achievement must be measured separately for several categories of students, including those designated as English Language Learner (ELL) students. To meet that mandate states and districts and schools will presumably need to focus attention and resources on the student groups that are farthest from meeting standards.

Congress is due to reauthorize the basic legislation underlying NCLB, the Elementary and Secondary Education Act, this year, and dozens of bills have been introduced to modify its provisions. Many address the ways that achievement is measured for students in the English language learner (ELL) category, the standards that schools and states need to meet for these students as well as the assistance and the sanctions that come into play when those standards are not accomplished.

The gaps in achievement between black and Hispanic students and white students are well-known, longstanding, and widely researched (see, for example, Jencks and Phillips, 1998). NCLB designated English language learner (ELL) students as a distinct group for the reporting of state test results and required that the ELL achievement gap also be closed.

Using publicly available data on achievement in math

> ELL students are generally not educated in the same public schools as other students. Almost $70 \%$ of elementary ELL students attended 5,000 schools (out of 50,000 elementary schools nationwide). These same schools educated fewer than $8 \%$ of the elementary students who were not English language learners (Cosentino de Cohen, et.al., 2005) and reading at the national and state levels, this report examines the performance of ELL students compared to white, Hispanic, and black students. ${ }^{2}$ The National Assessment of Educational Progress (NAEP) and as well as assessments undertaken by individual states under NCLB requirements reveal that ELL students are achieving less than their black and Hispanic peers and are far behind their white peers in most states. ${ }^{3}$

The education of ELL students is important for reasons aside from the federal push to raise academic achievement to specific standards. Children with limited English skills are one of the fastest growing components of the school-aged

[^2]population. Since 1979 the percentage of children speaking English with difficulty has nearly doubled (Federal Interagency Forum on Child and Family Statistics, 2005). According to the National Center for Education Statistics (NCES), there were 3.8 million public school students receiving ELL services in school year 2003-04, about 10.6 \% of students nationally (NCES, 2006). The number of students who are English language learners will likely continue to grow given that the population of school-age children who have immigrant parents is projected to increase from 12 million in 2005 to 18 million in 2025 (Passel, 2007).

Though once concentrated in a few parts of the country, English language learners are now being educated in an increasing number of states, reflecting the dispersion of the foreign-born population in recent years. Tabulations from Census data indicate that California, Texas and New York educated 63\% of limited English speaking students in public schools in 1990. By 2005, the top 3 states educated only 54\% of limited English speaking students. Public schools in the South and Northwest have experienced sizable growth in their public ELL enrollments since 1990. Lagging achievement by these students is now a national issue.

Ultimately, measured achievement matters because it affects socioeconomic success later in life. The President’s Council of Economic Advisers recently asserted: "Economic research suggests that educational attainment and test scores are important at both the individual level and the national level...Studies have also shown that higher test scores are associated with higher wages and more years of schooling. High school students with higher test scores are more likely to attend college and, if they attend, are more likely to graduate. Controlling for individuals' educational attainment and family background, those who score higher on achievement tests in high school have higher wages later in life (Economic Report of the President, 2006)".

There has not been much research on the consequences of the English language learner achievement gap. However, the consequences of the black-white achievement gap are likely informative. A recent NCES study compared the outcomes of blacks and whites with similar educational achievement levels. Parity in educational achievement is associated with narrowed differences later in life: "While blacks have lower levels of educational achievement, educational attainment, and earnings than whites, these disparities are frequently smaller, and are sometimes entirely absent, for individuals with similar levels of prior educational achievement (NCES, 2001)"

## Demographics of Limited English Speaking Public School Students

In school year 2003-04 there were 3.8 million public school students receiving ELL services (NCES, 2006). This is an administrative count and little demographic information is available on this category of students.

Tabulations from the 2005 American Community Survey (ACS) indicate that 2.7 million public K-12 students (age 5 and above) spoke a language other than English at home and reported speaking English less than "very well," up from 1.7 million students in the 1980 decennial census.

Over three-quarters of the 2.7 million limited English speaking students in the 2005 ACS spoke Spanish at home. Less than a majority (40\%) of the limited English students were foreign-born. The racial/ethnic composition of the limited English speakers was $70 \%$ Hispanic, 13\% Asian/Pacific Islander, 12\% non-Hispanic white, and 4\% non-Hispanic black. Over a third of the limited English speaking students resided in poverty (35\%), in comparison to a poverty rate of 19\% among public school students who were not limited English speakers.

The racial/ethnic origins of the 3.8 million public school students receiving ELL services are unknown. In the 2005 American Community Survey 9.4 million Hispanic children (age 5 and above) were enrolled in public school. About one-out-of-five of the Hispanic students spoke a language other than English at home and reported speaking English less than "very well."

This suggests that narrowing achievement disparities could substantively narrow adult educational, labor market, and social differences. The first section of this report examines the achievement gaps between ELL students and other groups of students at the national level, based on the 2005 National Assessment of Educational Progress (NAEP). The next section examines the achievement gaps at the state level in NAEP and compares them to the performance gaps apparent in the results of the tests that states have administered to comply with NCLB.

The achievement gap between ELL students and other students as measured by NAEP is not the basis under NCLB for determining whether states are meeting the law's mandate to meet proficiency standards for all students. NAEP does not have a role in determining the legal compliance of the states. Rather individual states must develop their own tests and benchmarks for proficiency in math and reading in order to meet the federal mandates. The NAEP results, however, are informative because they are comparable across states and indicative of the degree of parity between ELL students and other student subgroups. Moreover, the testing methodologies and proficiency standards developed by a number of states for ELL students face a variety of challenges and in some cases have been rejected by the U.S. Department of Education.

## National ELL Achievement Gaps

## Measuring the Gap

The NAEP, or the "Nation's Report Card," is the best-known assessment of student learning for the U.S. as a whole. NAEP assesses student learning in mathematics and reading at grades 4 and 8 , providing national level results as well as results for some states.

For the nation as a whole, NAEP reveals that ELL students were far behind white students in their mathematics and reading skills in 2005. Performance on the main NAEP is reported in terms of four achievement levels: below basic, basic, proficient, and advanced. Since relatively few students from any NAEP student group perform at the advanced level—and ELL students nationally tend to be concentrated at the lower achievement levels-this report presents the NAEP achievement gap in terms of performance at or above the basic level of achievement. The National Center for Education Statistics also reports NAEP results in this fashion (NCES, 2005).The basic achievement level identifies "partial mastery of prerequisite knowledge and skills that are fundamental for proficient work."

The 2005 assessment indicated that 46\% of ELL students nation-wide achieved at the below basic level in math in grade 4 (Table 1). In reading 73\% of ELL fourth grade test-takers were below basic. Among white fourth-graders nationally, $11 \%$ were at the below basic level in math and $25 \%$ were below basic in reading.

| Table 1 <br> National Performance in Mathematics and Reading (percent of students in achievement level) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | MATH |  | READING |  |
| Achievement Level | Grade 4 | Grade 8 | Grade 4 | Grade 8 |
| ELL Students |  |  |  |  |
| Advanced | 1 | 1 | 1 | 0 |
| Proficient | 11 | 5 | 6 | 4 |
| Basic | 43 | 23 | 21 | 24 |
| Below Basic | 46 | 71 | 73 | 71 |
| White Students |  |  |  |  |
| Advanced | 7 | 7 | 10 | 3 |
| Proficient | 40 | 30 | 30 | 34 |
| Basic | 42 | 42 | 35 | 43 |
| Below Basic | 11 | 21 | 25 | 19 |
| Black Students |  |  |  |  |
| Advanced | 1 | 1 | 2 | 0 |
| Proficient | 12 | 8 | 11 | 11 |
| Basic | 47 | 33 | 29 | 40 |
| Below Basic | 40 | 59 | 59 | 49 |
| Hispanic Students |  |  |  |  |
| Advanced | 1 | 1 | 2 | 1 |
| Proficient | 18 | 12 | 13 | 13 |
| Basic | 48 | 38 | 29 | 41 |
| Below Basic | 33 | 50 | 56 | 45 |
| Source: 2005 National Assessment of Educational Progress (NAEP) |  |  |  |  |

## National Assessment of Educational Progress

The National Assessment of Educational Progress (NAEP) is the nation's only nationally representative assessment of educational achievement. Begun in 1969, NAEP is conducted by the National Center for Education Statistics under the direction of the National Assessment Governing Board.

In education circles, NAEP is often referred to as the gold standard of educational assessments. States can elect to participate in the state NAEP. The state assessment is identical to the national assessment in content. In 2005 all states and the District of Columbia participated in the grade 4 and 8 math and reading assessment, but state-level results for ELL students are not available for all states.

In 2005 a large sample of about 172,000 fourth-graders and 162,000 eighth graders participated in NAEP nationwide. NAEP does not provide scores for individual students or schools. Achievement is measured for students by grade and subgroups within those grades.

This report focuses on the reading and math abilities of students, but the NAEP has also assessed abilities in science, writing, U.S. history, civics, geography, and the arts. NAEP results are available at the NAEP Data Explorer:
http://nces.ed.gov/nationsreportcard/nde/

In the grade 4 math assessment $46 \%$ of ELL students performed at the below basic level and 54\% performed at or above the basic achievement level. Among white fourth graders, $89 \%$ were at or above the basic achievement level in math.

This report assesses the gap in achievement as the difference in the percentages at or above the basic level for ELL students and a comparison group. For example, the gap in grade 4 math achievement between white and ELL student is 35 percentage points ( $89 \%$ for whites versus $54 \%$ for ELL students) (Figure 1). In conceptual terms, the 35 point gap is how far the ELL student group as a whole lags behind in demonstrating at least "partial mastery of prerequisite" skills.

Compliance with NCLB mandates will be determined not by performance on the NAEP but rather by testing programs developed and administered separately by each of the states. However, measuring the achievement gaps in the NAEP is a way of illustrating how much ground needs to be covered to accomplish the goal of having students of all groups meet the same standards of minimum proficiency.

Figure 1


In the 2005 NAEP, English language learner students significantly trailed black students in math and reading skills at the national level, although the national achievement gaps between ELL and black students were not as large as the gap between ELL and white students. For example, in grade 4 math, $60 \%$ of black students performed at or above the basic level. The ELL to black math achievement gap for grade 4 was 6 percentage points (Figure 2).


The performance of ELL students may also be compared to Hispanic students. ELL students and Hispanic students were clearly not mutually exclusive categories as some of the same students were both Hispanic and ELL designated.

Yet, a majority of Hispanic students were not also English language learners. ${ }^{4}$ And some English language learner students were of Asian or Pacific Islander racial origin and not Hispanic.


In terms of learning, the 2005 NAEP indicates that ELL students trailed behind Hispanic students in their math and reading abilities (Figure 3). For example, in grade 4 math $67 \%$ of Hispanic students performed at or above the basic level, so ELL fourth graders trailed 13 percentage points behind their Hispanic peers.

## Widening Gap, Changing Population Between 4th and 8th Grades

The ELL achievement gap widens at higher grades. For example, in fourth grade math, ELL students were 35 points behind white fourth graders. In grade 8, ELL students were 50 points behind white eighth graders (Figure 1). The widening of the ELL to white gap at higher grades is not unique to the 2005 NAEP assessment. It is also apparent in assessments the states are required to administer under No Child Left Behind (see the Appendix). In California, for example, student achievement results on the Stanford Achievement Test demonstrated large achievement gaps that increased at the higher grades (Gandara, et. al., 2003).

Is this widening gap from 4th to 8th grades evidence of failure on the part of the schools and the students, or are there other factors to consider? Indeed, change in the composition of the ELL population across these grades appears to explain some of the difference: Higher achieving students are removed from the ELL population while newly arrived immigrants just starting out in U.S. schools are added to it. These factors, explored below, help explain why ELL students fall

[^3]further behind white students from grade 4 to grade 8 . But these changes in composition do not diminish the challenges faced by students and schools in attempting to close the gap as mandated by federal policy.

ELL status is not permanent. Between 4th and 8th grade some students succeed in learning English. They are reclassified and no longer counted as English language learners. Meanwhile, because of immigration, new foreign born English language learners are added to the ELL population after 4th grade.

The U.S. Department of Education's administrative data on English language learners (collected in the Common Core of Data) has little information on these students other than their school district. Using Census data, however, the characteristics of limited English speaking students can be examined. Limited English ability in the Census only refers to speaking abilities. ELL status depends on reading and writing abilities, in addition to speaking abilities, as well as other test scores, grades and teacher input (Jepsen and de Alth, 2005). The limited English population is frequently used as a proxy for the ELL population (Capps, et.al 2005).

| Table 2 <br> National Limited-English Speaking Enrollment and Total Public School Enrollment, Select Grades |  |  |
| :---: | :---: | :---: |
|  | PUBLIC SCHOOL <br> Students Speaking English Less Than "Very Well" | ROLLMENT <br> All Students |
| Grades 1 to 4 in 2001 | 941,127 | 14,596,003 |
| Foreign born | 285,614 | 608,210 |
| Native born | 655,513 | 13,987,793 |
| Grades 5 to 8 in 2005 | 661,311 | 14,771,870 |
| Foreign born | 291,860 | 865,082 |
| Native born | 369,451 | 13,906,788 |
| Foreign Born Grades 5 to 8 in 2005 | 291,860 | 865,082 |
| Arrived at least 4 years ago | 160,577 | 641,939 |
| Arrived less than 4 years ago | 131,283 | 223,143 |
| Source: Pew Hispanic Center analysis of 2001 and 2005 U.S. Census Bureau American Community Survey (ACS) <br> Notes: The American Community Survey asks respondents 5 years of age and older if they speak a language other than English at home. Those responding affirmatively self-report their English speaking ability. School enrollment counts are limited to children residing in households. |  |  |

Table 2 reports on public school enrollment in 2001 in grades 1 to 4 . By 2005, most of these students had been promoted to grades 5 to 8 . The number of limited English speakers enrolled in public schools clearly decreases from elementary school to middle school. There were 941,000 limited English speaking students in grades 1 to 4 in 2001. By 2005 there were 661,000 limited English speakers in grades 5 to 8 . In addition to showing the decline in the number of limited English
speaking students, Table 2 reveals the change in the composition of the limited English speaking students.

The number of native-born limited English speaking students declined from 656,000 in 2001 to 369,000 in 2005, or $44 \%$. The share of limited English speaking students who were native-born fell from 70\% in 2001 to 56\% in 2005.

Although the number of foreign-born limited English speaking students remained roughly unchanged at 290,000 from elementary school to middle school, many foreign-born, limited-English speaking students in grades 1 to 4 did learn to speak English by 2005. Unlike native-born students, the total number of foreign-born students increased from 608,000 students in 2001 to 865,000 in 2005 due to immigration.

Many of the new arrivals were limited English speaking students. Of the 292,000 foreign-born, limited-English speakers in grades 5 to 8 in 2005, only 161,000 had been in the U.S. at least 4 years earlier and thus could have been in the U.S. grade 1 to 4 cohort in 2001. It appears that about 125,000 of the 286,000 foreign-born, limited-English speakers in grades 1 to 4 in 2001 learned to speak English by grades 5 to 8, a decline of 44\%. Thus, foreign born limited English speakers in elementary schools appear to learn English at the same rate as native-born limited English speakers. However, those students were replaced in grades 5 to 8 by 131,000 foreign-born students who arrived less than four years ago and were not enrolled in grades 1 to 4 in the U.S.

Consequently, the middle school ELL population is composed of two student groups: newly-arrived, foreign-born students who were not in U.S. schools as well as ELL students from elementary school who have not mastered English. It is likely that the acquisition of English language skills and academic achievement are highly related. Those elementary school students who learned English rapidly also tended to score higher on their math and reading assessments. These students departed the ELL population by middle school and their higher achievement is no longer reflected in middle school achievement gap. The ELL to white achievement gap widens from elementary school to middle school possibly because the highest achieving ELL students in elementary school have departed by middle school.

The widening of the ELL achievement gap from grade 4 to grade 8 is distinctive in reading. In the national NAEP, the black-to-white achievement gap and the Hispanic-to-white achievement gap widens in math from grade 4 to grade 8 . But those gaps tend to diminish in reading from grade 4 to grade 8. ${ }^{5}$ In the national NAEP, reading gaps narrow as the grades progress for black and Hispanic students. But not for ELL students. The English language learner population may be unique in featuring widening reading gaps between elementary school and middle school.

Nationally ELL students tend to trail further behind their peers in reading than in math. In grade 4, ELL students trailed 35 points behind white students in math, but the gap was 47 points in reading (Figure 1).

[^4]
## State ELL Achievement Gaps

## Findings from the NAEP

The 2005 NAEP results on ELL academic performance are available at the state level for 39 states in math and 34 states in reading. The same broad findings on the size and persistence of the achievement gap reported above for the national data are evident in these states to varying degrees.

Regardless of grade or subject, ELL students trail far behind their white counterparts in the state in the proportion of students that perform at or above the basic achievement level. All available states had double digit gaps between white and ELL students and the gap often exceeded 50 percentage points (see the Appendix). Table 3 reports the NAEP achievement gaps between white and ELL students for the ten states with the largest ELL populations.

| Table 3 <br> English Language Learner to White Student Achievement Gaps ${ }^{1}$ States with the Largest ELL Student Populations <br> (in percentage points) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| MATHEMATICS |  |  | READING |  |
|  | Grade 4 | Grade 8 | Grade 4 | Grade 8 |
| California | 37 | 48 | 48 | 49 |
| Texas | 26 | 60 | 44 | 61 |
| New York | 41 | 60 | 55 | 62 |
| Florida | 34 | 48 | 44 | 49 |
| Illinois | 52 | 51 | 60 | 50 |
| Arizona | 46 | 51 | 51 | 54 |
| New Jersey | 31 | - | - | - |
| Washington | 35 | 47 | 45 | 48 |
| Massachusetts | 27 | 59 | 46 | 62 |
| Georgia | 46 | 48 | 53 |  |
| North Carolina | 19 | 40 | 44 | 36 |
| Source: 2005 National Assessment of Educational Progress (NAEP) <br> Notes: 'The percentage of white students at or above the basic achievement level minus the percentage of ELL students at or above the basic achievement level. States listed in descending order of their 2005 public school ELL enrollment. |  |  |  |  |

In many states for which NAEP results are available, ELL students trail behind black students in academic achievement (Table 4). In 2005 that was particularly apparent in reading. For example, in Texas in 2005, 49\% of black fourth graders performed at or above the basic level in reading. Among ELL fourth graders, $35 \%$ performed at or above basic in reading, yielding a 14 percentage point gap between ELL and black fourth graders in reading.

| Table 4 <br> English Language Learner to Black Student Achievement Gaps ${ }^{1}$ States with the Largest ELL Student Populations <br> (in percentage points) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| MATHEMATICS |  |  | READING |  |
|  | Grade 4 | Grade 8 | Grade 4 | Grade 8 |
| California | 3 | 9 | 15 | 20 |
| Texas | 6 | 27 | 14 | 35 |
| New York | 14 | 23 | 25 | 25 |
| Florida | 10 | 9 | 13 | 20 |
| Illinois | 10 | 3 | 17 | 19 |
| Arizona | 14 | 22 | 15 | 28 |
| New Jersey | 5 | - | - | - |
| Washington | 21 | 24 | 27 | 37 |
| Massachusetts | 5 | 24 | 18 | 39 |
| Georgia | 20 | 15 | 19 | - |
| North Carolina | -7 | 11 | 12 | 6 |
| Source: 2005 National Assessment of Educational Progress (NAEP) <br> Notes: 'The percentage of black students at or above the basic achievement level minus the percentage of ELL students at or above the basic achievement level. States listed in descending order of their 2005 public school ELL enrollment. |  |  |  |  |

Examining the size of the gap between ELL students and white students, the achievement gap widens in most states between grade 4 and grade 8 . Particularly in math, eighth grade ELL students are further behind their white counterparts than fourth grade ELL students.

| $\begin{array}{c}\text { Table 5 }\end{array}$ |  |  |  |
| :--- | ---: | ---: | ---: |
| Number of California English Language Learners in Public Schools |  |  |  |
| (by grade through time) |  |  |  |$]$

As with the national data, evidence from the states suggests that the decline in ELL performance from elementary school to middle school likely reflects change in the ELL population across grades. Administrative counts at the state level make clear that the ELL population decreases in size at higher grades. For example the state of California has detailed counts on ELL students over time. The second column of Table 5 reports the number of ELL students in each grade in school year 2005-06 in California public schools. Using prior school year data,
the fourth column reports the number of ELL students when that grade was in kindergarten.

In California the number of ELL students rises from kindergarten to first grade. After the second grade the number of ELL students decreases and it continues to decrease each grade thereafter. Similar patterns of ELL counts by grade were apparent in the states of Florida, Illinois, and Arizona (see the Appendix). The ELL student population is smaller in middle school than in early elementary school. Students learning English most rapidly were the students who departed the ELL population. It seems plausible that these students were the highest achieving ELL students. Their performance is not reflected in the middle school ELL results, widening the measured gap between white and ELL students.

## Comparison with NCLB State Assessment Results

The No Child Left Behind Act requires states to test students annually in reading and math in grades 3 to 8 . State participation in NAEP is not a substitute for the state's own assessment of all students, so states have developed their own standards-based reading and mathematics assessments. Because each state assessment is unique, results on states assessments cannot be compared across states to measure student achievement. Analysis has shown that the state tests vary widely across states and that the meaning of "proficient" differs between states. In short, "to compare scores between states, one must rely on NAEP (McLauglin, 2005)."

However, on the basis of each states' reading and mathematics assessment, it is possible to compare how ELL students performed in that state compared to white students in that state. In each state, the percentage of ELL students that "meets or exceeds the state standard" can be compared to the percentage of white students that meet or exceed the state standard and the gap in performance can be measured.

Using the most recent year available for the state assessment results, the gap between white and ELL test-takers was tabulated in the percent of students meeting or exceeding the state standard (see the Appendix for the measured gaps).

The ELL-to-white performance gaps based on the state assessments largely mirror the gaps based on state NAEP. In both math and reading, and regardless of grade, ELL students trail their white counterparts in the percent of students meeting or exceeding the state standard. The state-based gaps were typically in the double digits and tend to widen as the grade level progresses.

In states that have available results for their fourth and eighth grade assessments and also that participated in NAEP, the state-based assessment gap can be compared with the gap based on NAEP. The states that demonstrate the largest gaps between white and ELL students on the basis of NAEP also demonstrate the largest gaps in their state assessments.

For example, in the 2005 NAEP in Arizona, $86 \%$ of white test-takers were at or above the basic level of achievement compared with $40 \%$ of ELL test-takers in grade 4 math. That produced a NAEP-based gap of 46 points (Table 3). Results of Arizona’s Instrument to Measure Standards (AIMS) in 2006 indicated that 85\% of white fourth graders "meets or exceeds the standard" in math, compared to $42 \%$ of ELL fourth graders, resulting in a 43 point AIMS based gap between white and ELL fourth graders in math in Arizona. States with larger NAEP-based gaps also show larger gaps based on their own state assessment (Appendix figures A1-A4).

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## Appendix: Tables and Figures

| Table A1 <br> NAEP English Language Learner to White Student Achievement Gaps' <br> By Select States and D.C. <br> (fin perombere pointay |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| MATHEMATICS |  |  | ReADING |  |
|  | Grade 4 | Grade 8 | Grade 4 | Grade 8 |
| 50 States and D.C. | 35 | 50 | 47 | 52 |
| 1 Califomia | 37 | 48 | 48 | 49 |
| 2 Texas | 26 | 60 | 44 | 61 |
| 3 New York | 41 | 60 | 55 | 62 |
| 4 Florida | 34 | 48 | 44 | 49 |
| 5 Illinols | 52 | 51 | 60 | 50 |
| 6 Artoona | 46 | 51 | 51 | 54 |
| 7 New Jersey | 31 | - | - | - |
| 8 Washington | 35 | 47 | 45 | 48 |
| 9 Massachusetts | 27 | 59 | 46 | 62 |
| 10 Georgla | 46 | 48 | 53 | - |
| 11 North Carolina | 19 | 40 | 44 | 36 |
| 12 Michigan | 25 | - | - | - |
| 13 Pennsylvania | 36 | - | 34 | - |
| 14 Colorado | 47 | 54 | 50 | 53 |
| 15 Virginia | 17 | 33 | 20 | - |
| 16 Oregon | 37 | 37 | 42 | 37 |
| 17 Maryland | 25 | - | - | - |
| 18 Minnesota | 32 | 41 | 34 | 47 |
| 19 Nevada | 44 | 52 | 49 | 48 |
| 20 New Mexico | 41 | 49 | 48 | 46 |
| 21 Indiana | 13 | - | - | - |
| 22 Wisconsin | 24 | 28 | 32 | - |
| 23 Conneticut | 43 | 57 | 47 | - |
| 24 Utah | 29 | 39 | 39 | 36 |
| 25 Missourl | 22 | - | - | - |
| 26 Oldahoma | 20 | 31 | 33 | 25 |
| 27 Kansas | 21 | 50 | 37 | - |
| 28 Hawall | 49 | 52 | 47 | 58 |
| 29 Arkansas | 15 | - | 26 | - |
| 30 lowa | 35 | - | 43 | - |
| 31 Nebraska | 45 | 59 | 49 | - |
| 32 Phode sland | 57 | 62 | 55 | 52 |
| 33 Idaho | 27 | 35 | 43 | 27 |
| 34 South Dakota | 54 | - | 60 | - |
| 35 Delaware | 23 | - | 39 | - |
| 36 District of Columbla | 62 | - | 72 | - |
| 37 Alaska | 35 | 31 | 50 | 39 |
| 38 Montana | 45 | 57 | 47 | 52 |
| 39 Wyoming | 23 | 40 | 46 | 33 |
| Source: 2005 Nettonal Assessmem of Educationsal Progress (NA:P) <br> Noter 'The percentage of white students at ar above the bask acclievernent level minus the percentage of Ell students at or above the basic echievement level States listed in dexcending order of cheir 2005 public school EL enroliment. Pesults arre not avallable for all states because of an Insufficient rumber of Englst language learner tese-takers in some states. |  |  |  |  |


| Table A2 <br> NAEP English Language Leamer to Black Student Achievement Gaps ${ }^{\top}$ <br> By Select States and D.C. <br> (inpercentoge points) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| MATHEMATICS |  |  | Reading |  |
|  | Grade 4 | Grade 8 | Grade 4 | Grade 8 |
| 50 States and D.C. | 6 | 12 | 14 | 22 |
| 1 Califomia | 3 | 9 | 15 | 20 |
| 2 Texas | 6 | 27 | 14 | 35 |
| 3 New York | 14 | 23 | 25 | 25 |
| 4 Florida | 10 | 9 | 13 | 20 |
| 5 Illinois | 10 | 3 | 17 | 19 |
| 6 Artzona | 14 | 22 | 15 | 28 |
| 7 New Jersey | 5 | - | - | - |
| 8 Washington | 21 | 24 | 27 | 37 |
| 9 Massachusetts | 5 | 24 | 18 | 39 |
| 10 Georgla | 20 | 15 | 19 | - |
| 11 North Carolina | -7 | 11 | 12 | 6 |
| 12 Michlgan | -19 | - | - | - |
| 13 Pennsylvania | 6 | - | 0 | - |
| 14 Colorado | 19 | 15 | 23 | 34 |
| 15 Virginia | -7 | 1 | -11 | - |
| 16 Oregon | 16 | 10 | 18 | 11 |
| 17 Maryland | -6 | - | - | - |
| 18 Minnesota | -4 | -B | -8 | 11 |
| 19 Nevada | 11 | 13 | 19 | 25 |
| 20 New Mexko | 4 | 21 | 27 | - |
| 21 Indiana | -14 | - | - | - |
| 22 Wisconsin | -21 | -25 | 8 | - |
| 23 Conneticut | 8 | 10 | 9 | - |
| 24 Missourl | -11 | - | - | - |
| 25 Oldahoma | -11 | -4 | 6 | -5 |
| 26 Kansas | -1 | 11 | 5 | - |
| 27 Hawail | 24 | - | 27 | - |
| 28 Arkansas | -21 | - | -13 | - |
| 29 lowa | 15 | - | 14 | - |
| 30 Nebraska | 1 | 3 | 9 | - |
| 31 Rhode lsland | 17 | 22 | 25 | 27 |
| 32 Delaware | 0 | - | 8 | - |
| 33 District of Columbla | 4 | - | 9 | - |
| 34 Alaska | 14 | 3 | 34 | 18 |
| Source: 2005 Nentional Assessment of Educritional Progress (NAEP) <br> Notes 'The percentage of black shudents at or above the besic achievement level minus the percentege of ilL students at or above the basic achinvement leved. States listed in descending order of their 2005 public school EL enrolinent feauts are not avaliable for all states because of an insufficient number of English language learner test-taloters in some states. |  |  |  |  |


| Table A3 <br> NAEP English Language Learner to Hispanic Student Achievement Gaps ${ }^{1}$ <br> By Select States and D.C. <br> (in perominge pointis) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| MATHEMATICS |  |  | READING |  |
|  | Grade 4 | Grade 8 | Grade 4 | Grade 8 |
| 50 States and D.C. | 13 | 21 | 17 | 26 |
| 1 Califomia | 9 | 16 | 11 | 21 |
| 2 Texas | 13 | 37 | 18 | 38 |
| 3 New York | 20 | 28 | 27 | 36 |
| 4 Florida | 21 | 26 | 29 | 35 |
| 5 Illinois | 23 | 25 | 26 | 31 |
| 6 Arzona | 17 | 20 | 19 | 24 |
| 7 New Jersey | 12 | - | - | - |
| 8 Washington | 13 | 18 | 15 | 25 |
| 9 Massachusetts | 5 | 28 | 6 | 30 |
| 10 Georgia | 32 | 20 | 26 | - |
| 11 North Carolina | 6 | 17 | 16 | 14 |
| 12 Michigan | 1 | - | - | - |
| 13 Pennsylvania | 7 | - | 2 | - |
| 14 Colorado | 21 | 19 | 20 | 24 |
| 15 Virginla | 3 | 12 | 5 | - |
| 16 Oregon | 5 | 4 | 9 | 11 |
| 17 Maryland | 6 | - | - | - |
| 18 Minnesota | 2 | 9 | 6 | 17 |
| 19 Nevada | 17 | 23 | 21 | 25 |
| 20 New Mexko | 15 | 20 | 19 | 25 |
| 21 Indlana | -1 | - | - | - |
| 22 Wisconsin | -1 | 0 | 7 | - |
| 23 Conneticut | 15 | 15 | 12 | - |
| 24 Utah | 2 | 8 | 8 | 11 |
| 25 Missouri | -1 | - | - | - |
| 26 Oldahoma | 6 | 5 | 11 | 1 |
| 27 Kansas | 8 | 23 | 12 | - |
| 28 Hawall | 27 | 30 | 31 | 35 |
| 29 Arkanses | 1 | - | 8 | - |
| 30 lowa | 11 | - | 17 | - |
| 31 Nebraska | 15 | 27 | 19 | - |
| 32 Phode sland | 19 | 18 | 20 | 22 |
| 33 Idaho | 5 | 6 | 11 | 5 |
| 35 Delaware | 3 | - | 17 | - |
| 36 District of Columbla | 15 | - | 18 | \% |
| 37 Alastes | 12 | 15 | 32 | 27 |
| 38 Montana | 36 | - | 47 | - |
| 39 Wyoming | 13 | 17 | 19 | 17 |
| Source: 2005 Nutional Assessment of Edvcational Progress (NA:P) <br> Notes: 'The percentage of Hspanic students at or abave the basle achievement lewel mimus the percentage of EII sudents at or above the basic achiovement lenel states listed in descending order of their 2005 public school ELI enrollment. Pesults are not avallable for all states because of an Insuffident number of English language learmer vere-takers in some states. |  |  |  |  |


| Table A4 <br> Number of Califomia English Language Learners in Public Schools foy grode over school years) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade In 2005-2006 | 2005-2006 | 2004-2005 | 2003-2004 | 2002-2003 | 2001-2002 | 2000-2001 | 1999-2000 | 1998-1999 | 1997-1998 |
| Kindergarten | 179,622 | - | - | - | - | - | - | - | - |
| Rist Grade | 174,081 | 170,559 | - | - | - | - | - | - | - |
| Second Grade | 166,015 | 171,472 | 166,248 | - | - | - | - | - | - |
| Third Grade | 159,172 | 173,889 | 179,123 | 172,828 | - | - | - | - | - |
| Fourth Grade | 147,241 | 164,203 | 177,561 | 183,892 | 177,638 | - | - | - | - |
| Ffth Grade | 123,164 | 147,057 | 161,301 | 171,167 | 173,093 | 165,210 | - | - | - |
| Sixth Grade | 112,156 | 130,638 | 151,207 | 165,935 | 175,274 | 174,661 | 165,776 | - | - |
| Seventh Grade | 100,599 | 113,873 | 131,026 | 149,832 | 162,217 | 173,513 | 171,863 | 164,643 | - |
| Elghth Grade | 90,520 | 102,303 | 113,869 | 127,525 | 138,420 | 152,619 | 160,57 | 171,980 | 166,682 |
| Source: Calffurnla State-evel Language Census Student Data Fies |  |  |  |  |  |  |  |  |  |


| Table A5 <br> Number of Florida and Illinois English Language Learners in Public Schools (bygrode over school yeans) |  |  |
| :---: | :---: | :---: |
|  | SCHOOL YEAR |  |
| Grade m 2003-2004 | 2003-2004 | 2002-2003 |
| Florida |  |  |
| Kindergarten | 32,603 | - |
| First Grade | 35,998 | 34,410 |
| Second Grade | 32,189 | 35,258 |
| Third Grade | 33,075 | 33,571 |
| Fourth Grade | 21,147 | 30,351 |
| Fifth Grade | 19771 | 26,156 |
| Sbxth Grade | 17,625 | 20,376 |
| Seventh Grade | 16,704 | 18,501 |
| Elghth Grade | 14,960 | 17,306 |
| Illinols |  |  |
| KIndergarten | 21,938 | = |
| Fhrst Grade | 22,372 | 21,297 |
| Second Grade | 21,004 | 21,257 |
| Third Grade | 19,091 | 20,493 |
| Fourth Grade | 168860 | 17,861 |
| Fifth Grade | 11,874 | 14,482 |
| Sixth Grade | 9,700 | 13,797 |
| Seventh Grade | 6,669 | 9,421 |
| Eighth Gracke | 5,907 | 7,690 |
| Source: Flonida Department of Education, Olfice of Academic Achievement through Language Acquisition (AALA), and IInots State Bosid of Education Datta Analysis and Progress Peporting Olvision,annual Illinots Ellingual Education Programs Eveluation fieport |  |  |
|  |  |  |
|  |  |  |
|  |  |  |


| Table A6 <br> Number of Arizona English Language Learner Test-takers <br> (by grade over school years) |  |  |
| :--- | :---: | :---: |
| Assessment |  |  |


| Table A7 <br> English Language Learner to White Student Achievement Gaps' in Mathematics Based on State Assessments <br> (in percentoge points) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 |
| 1 Callifomia | 2006 | 32 | 32 | 40 | 44 | 45 | 47 |
| 2 Texas | 2005-2006 | 16 | 20 | 28 | 35 | 51 | 52 |
| 3 Arizona | 2006 | 42 | 43 | 52 | 57 | 56 | 55 |
| 4 Washington | 2005-2006 | 42 | 42 | 51 | 48 | 44 | 44 |
| 5 Massachusetts | 2006 | 34 | 30 | 35 | 41 | 37 | 37 |
| 6 North Carolina | 2004-2005 | 20 | 14 | 17 | 23 | 30 | 29 |
| 7 Michigan | 2005 | 14 | 20 | 22 | 25 | 31 | 31 |
| 8 Pennsylvania | 2004-2005 | 35 | - | 37 | - | - | 40 |
| 9 Colorado | 2006 | 41 | 44 | 47 | 50 | 47 | 49 |
| 10 Virginla | 2005-2006 | 8 | 21 | 15 | 21 | 23 | 25 |
| 11 Oregon | 2005 | 18 | - | 21 | - | - | 35 |
| 12 Meryland | 2006 | 30 | 30 | 35 | 45 | 47 | 42 |
| 13 Milnnesota | 2004 | 39 | - | 41 | - | 48 | - |
| 14 Nevada | 2004-2005 | 32 | - | 41 | - | - | 45 |
| 15 Wisconsin | 2005-2006 | 35 | 35 | 35 | 34 | 40 | 36 |
| 16 Connecticut | 2006 | 35 | 35 | 35 | 47 | 54 | 40 |
| 17 Tennessee | 2004-2005 | 28 | 22 | 24 | 31 | 32 | 29 |
| 18 South Carollna | 2006 | 8 | 13 | 12 | 12 | 15 | 21 |
| 19 Missourl | Spring 2005 | - | 16 | - | - | - | 10 |
| 20 Oldahoma | 2006 | 23 | 21 | 20 | 27 | 33 | 25 |
| 21 Kansas | 2004 | - | 25 | - | - | 43 | - |
| 22 Louisiana | Spring 2005 | - | 13 | - | - | - | 25 |
| 23 Kentucly | Spring 2006 | - | - | 16 | - | - | 20 |
| 24 Alabama | 2005-2006 | 20 | 19 | 25 | 26 | 31 | 29 |
| 25 Idaho | 2005-2006 | 16 | 19 | 21 | 23 | 33 | - |
| 26 South Dakota | Spring 2006 | 47 | 53 | 47 | 54 | 51 | 46 |
| 27 New Hampshire | Fall 2005 | 30 | 35 | 33 | 32 | 34 | 36 |
| 28 Delaware | Spring 2005 | 31 | - | 32 | - | - | 33 |
| 29 Mississippi | Spring 2006 | 5 | 8 | 20 | 15 | 23 | 25 |
| 30 West Virginla | 2005-2006 | 4 | 3 | 8 | 6 | 4 | 20 |
| 31 Alastea | Spring 2006 | 29 | 29 | 31 | 32 | 32 | 35 |
| 32 Montana | 2005 | - | 42 | - | - | - | 48 |
| 33 North Dakota | 2005-2006 | 27 | 29 | 30 | 31 | 32 | 41 |
| 34 Wyoming | 2004-2005 | - | 21 | - | - | - | 29 |


| Table AB <br> English Language Learner to White Student Achievement Gaps' in Reading Based on State Assessments <br> (in percentoge points) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 |
| 1 Calfomla | 2006 | 40 | 45 | 50 | 53 | 54 | 56 |
| 2 Texas | 2005-2006 | 14 | 29 | 44 | 33 | 61 | 61 |
| 3 Arbona | 2006 | 52 | 59 | 63 | 66 | 65 | 66 |
| 4 Washington | 2005-2006 | 45 | 35 | 55 | 54 | 51 | 47 |
| 5 Massachusetts | 2006 | 45 | 42 | 55 | 58 | 57 | 64 |
| 6 Georgla | 2004 | 27 | - | - | - | - | - |
| 7 North Carolina | 2004-2005 | 32 | 33 | 29 | 44 | 39 | 41 |
| 8 Michlgan | 2005 | 18 | 22 | 25 | 25 | 28 | 32 |
| 9 Pennsylvanla | 2004-2005 | 48 | - | 48 | - | - | 53 |
| 10 Colorado | 2006 | 48 | 56 | 57 | 63 | 63 | 64 |
| 11 Virginia | 2005-2006 | 11 | 11 | 10 | 18 | 26 | 31 |
| 12 Oregon | 2005 | 22 | - | 30 | - | - | 43 |
| 13 Maryland | 2006 | 31 | 35 | 44 | 54 | 57 | 57 |
| 14 Mimesota | 2004 | 47 | - | 47 | - | 56 | - |
| 15 Nevada | 2004-2005 | 42 | - | 48 | - | - | 54 |
| 16 Wisconsin | 2005-2006 | 38 | 37 | 35 | 37 | 42 | 38 |
| 17 Connecticut | 2006 | 50 | 53 | 54 | 60 | 62 | 63 |
| 18 Tennessee | 2004-2005 | 48 | 39 | 39 | 33 | 34 | 50 |
| 19 South Carolina | 2006 | 19 | 26 | 25 | 34 | 38 | 40 |
| 20 Mlssour | Spring 2005 | 23 | - | - | - | 28 | - |
| 21 Oldahoma | 2006 | 22 | 21 | 30 | 36 | 34 | 40 |
| 22 Kansas | 2004 | - | - | 24 | - | - | 22 |
| 23 Loulslana | Spring 2005 | - | 20 | - | - | - | 34 |
| 24 Kentuclay | Spring 2006 | - | 18 | - | - | 32 | - |
| 25 Alabama | 2005-2006 | 26 | 23 | 28 | 30 | 38 | 39 |
| 26 ldaho | 2005-2006 | 21 | 24 | 28 | 33 | 30 | 41 |
| 27 South Dakota | Spring 2006 | 46 | 42 | 36 | 47 | 47 | 45 |
| 28 New Hampshire | Fall 2005 | 32 | 43 | 36 | 39 | 41 | 42 |
| 29 Delaware | Spring 2005 | 25 | - | 42 | - | - | 54 |
| 30 Misslsslppi | Spring 2006 | 18 | 15 | 24 | 28 | 34 | 33 |
| 31 West Virginia | 2005-2006 | 16 | 14 | 17 | 10 | 10 | 14 |
| 32 Alaska | Spring 2006 | 29 | 35 | 37 | 40 | 37 | 33 |
| 33 Montana | 2005 | - | 51 | - | - | - | 53 |
| 34 North Dakota | 2005-2006 | 29 | 32 | 33 | 43 | 34 | 35 |
| 35 Wyoming | 2004-2005 | - | 28 | - | - | - | 27 |
| Notes: The percritages of wifte students meeting or eucreeding the state standard mimus the percentages of \& L students meeting or excoeding the state standerd. States Isted in descending order of thetr 2 cos public school ill enroliment: |  |  |  |  |  |  |  |


|  | Table As <br> English Language Leamer to White Achievement Gap in NCLB State Assessments versus NAEP <br> 仵pertareagepanta |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | MATHEMATICS |  |  |  |  |  | Reading |  |  |  |  |  |
|  | Grade 4 |  |  | Crade: ${ }^{\text {a }}$ |  |  | Grade 4 |  |  | Erade ${ }^{\text {a }}$ |  |  |
| Prte | NCIB state assessment sap ${ }^{1}$ | $\begin{aligned} & \text { NAEP } \\ & \text { GXP } \end{aligned}$ | Difference (3)-(4) | NCLB state zxessment $g p^{9}$ | $\begin{aligned} & \text { NAEP } \\ & \text { GAP" } \end{aligned}$ | Diference [6-7] | MClB state assessment gap | NAEP gap | Difference (93-10) | NCIB state assessmert 99 p | $\begin{aligned} & \text { NAEP } \\ & \text { gap } \end{aligned}$ | Difference (12)-(13) |
| 1 California | 32 | 37 | -5 | 47 | 48 | -1 | 45 | 48 | $-3$ | 56 | 49 | 7 |
| 2 Teuss | 20 | 26 | -6 | 52 | 60 | 8 | 29 | 44 | -15 | 61 | 61 | 0 |
| 3 Arizona | 43 | 46 | -3 | 55 | 51 | 4 | 59 | 51 | 8 | 66 | 54 | 12 |
| 4 Washlington | 42 | 35 | 7 | 44 | 47 | -3 | 35 | 45 | -10 | 47 | 48 | -1 |
| 5 Massachusets | 30 | 27 | 3 | 37 | 59 | -22 | 42 | 46 | -4 | 64 | 62 | 2 |
| 6 North Carollia | 14 | 19 | -5 | 29 | 40 | -11 | 33 | 44 | -11 | 41 | 36 | 5 |
| 7 Mikhlyan | 20 | 25 | -5 | 31 | - | - | 22 | - | - | 32 | - | - |
| 8 Pennsylvanla | - | 36 | - | 40 | - | - | - | 34 | - | 5 | - | - |
| 9 Colorado | 44 | 47 | -3 | 49 | 54 | -5 | 56 | 50 | 6 | 64 | 53 | 11 |
| 10 Virginiz | 21 | 17 | 4 | 25 | 33 | -8 | 11 | 20 | 9 | 31 | - | - |
| 11 Oregon | - | 37 | - | 35 | 37 | -2 | - | 42 | - | 48 | 37 | 6 |
| 12 Maryland | 30 | 25 | 5 | 42 | - | - | 35 | - | - | 57 | - | - |
| 13 Milrnesotio | - | 32 | - | - | 41 | - | - | 34 | - | - | 47 | - |
| 14 Nevada | - | 44 | - | 45 | 52 | -7 | - | 49 | - | 54 | 48 | 6 |
| 15 Wtsconsin | 35 | 24 | 11 | 35 | 28 | 8 | 37 | 32 | 5 | 38 | - | - |
| 16 Connectiout | 35 | 43 | -8 | 40 | 57 | -17 | 53 | 47 | 6 | 63 | - | - |
| 17 Tennessues | 22 | - | - | 29 | - | - | 39 | - | - | 50 | - | - |
| 18 South Caroline | 13 | - | - | 21 | - | _ | 26 | - | - | 40 | - | - |
| 19 Missouri | 16 | 22 | -6 | 10 | - | - | - | - | - | - | - | - |
| 20 Oldahoma | 21 | 20 | 1 | 25 | 31 | -6 | 21 | 33 | -12 | 40 | 25 | 15 |
| 21 Kanss | 25 | 21 | 4 | - | 50 | - | - | 37 | - | 22 | - | - |
| 22 Loulslana | 13 | - | - | 25 | - | - | 20 | - | - | 34 | - | - |
| 23 Kentucly | - | - | - | 20 | - | - | 18 | - | - | - | - | - |
| 24 Alabama | 19 | - | - | 29 | - | - | 23 | - | - | 39 | - | - |
| 25 Idaho | 19 | 27 | -8 | - | 35 | - | 24 | 43 | -19 | 41 | 27 | 14 |
| 26 South Dalcota | 53 | 54 | -1 | 46 | - | - | 42 | 60 | -18 | 45 | - | - |
| 27 NewHampshire | 35 | - | - | 36 | - | - | 43 | - | - | 42 | - | - |
| 28 Delhware | - | 23 | - | 33 | - | - | - | 39 | - | 54 | - | - |
| 29 Mississippi | 8 | - | - | 25 | - | - | 15 | - | - | 33 | - | - |
| 30 West Virginla | 3 | - | - | 20 | - | - | 14 | - | - | 14 | - | - |
| 31 Alaska | 29 | 35 | -6 | 35 | 31 | 4 | 35 | 50 | -15 | 33 | 39 | 6 |
| 32 Montana | 42 | 45 | -3 | 48 | 57 | $-9$ | 51 | 47 | 4 | 53 | 52 | 1 |
| 33 North Dikpta | 29 | - | - | 41 | - | - | 32 | - | - | 35 | - | - |
| 34 Wyoming | 21 | 23 | -2 | 29 | 40 | -11 | 28 | 46 | -18 | 27 | 33 | -5 |
| Notess 'The pencent of while stuctents meeting ar eaceeding the state stanctad on the crate assessmert minus the perment of Bl students meeting or exreeding the state ctandand on the stateassessment. <br>  descending order of thelr 2005 public school Bl emrolment: |  |  |  |  |  |  |  |  |  |  |  |  |







[^0]:    About this report: The achievement analysis is based on the 2005 National Assessment of Educational Progress, also known as the "Nation's Report Card," and 35 state-administered assessments mandated by the No Child Left Behind law. The report also uses demographic data, for the nation and for some states, to analyze some of the characteristics of limited English speaking students.

    About the Pew Hispanic Center: Founded in 2001, the Pew Hispanic Center is a nonpartisan research organization supported by The Pew Charitable Trusts. The Pew Hispanic Center's mission is to improve understanding of the diverse Hispanic population and to chronicle Latinos' growing impact on the nation. The Pew Hispanic Center is a project of the Pew Research Center, a nonpartisan "fact tank" in Washington, D.C., that provides information on the issues, attitudes, and trends shaping America and the world; it does not advocate for or take positions on policy issues.

[^1]:    ${ }^{1}$ As used in this report, white refers to non-Hispanic whites; black refers to non-Hispanic blacks.

[^2]:    ${ }^{2}$ NCLB mandated annual statewide testing (in certain grades) in math and reading/language arts by school year 2005-06. Mandated testing in science begins in school year 2007-08.
    ${ }^{3}$ The National Assessment of Educational Progress does include private as well public school students. This report only presents achievement results for public school students.

[^3]:    ${ }^{4}$ The National Center for Education Statistics indicated that 3.8 million students received ELL services. It also reports that 8.9 million Hispanics were enrolled in school year 2003-04 (NCES, 2006). Thus, even if all English language learner students were Hispanic, less than a majority of Hispanic students could be ELL designated.

[^4]:    ${ }^{5}$ The change in the black-white achievement gap as grades progress is the subject of considerable research. The assertion that the black to white and Hispanic to white reading gaps narrow is simply based on the NAEP and grade level comparisons within a NAEP assessment. It is not based on following the same cohort of children as grades progress. More sophisticated analysis also finds that the black-white math gap widens as children age but the reading gap remains relatively constant (Phillips, Crouse, and Ralph (1998)).

