Subgroup Achievement and Gap Trends — New Jersey

K-12 enrollment — 1,271,481

The raw data used to develop these state profiles, including data for additional grade levels and years before 2002, can be found on the CEP Web site at www.cep-dc.org. Click on the link on the left for State Testing Data. Below the name of the report, click on the link for View State Profiles and Worksheets. Scroll down the page, and click on the Worksheet links for any state.

Subgroup Achievement Trends and Gap Trends — Key Findings

Summary

This year the Center on Education Policy analyzed data on the achievement of different groups of students in two distinct ways. First, we looked at grade 4 test results to determine whether the performance of various groups improved at three achievement levels—basic and above, proficient and above, and advanced. Second, we looked at gaps between these groups at the proficient level across three grades (grade 4, grade 8 in most cases, and a high school grade). These two types of analyses show whether elementary school achievement has generally gone up for different groups of students and whether achievement gaps at different grade levels have narrowed, widened, or stayed the same.

At grade 4, all the major student groups in New Jersey showed clear trend of gains in math at the proficient and advanced achievement levels, but subgroup trends in reading were mixed. A clear trend of narrowing gaps was evident for all major subgroups at the elementary and high school levels. (Data were not available to determine trends at the basic achievement level or for middle school.)

Subgroup trends by achievement level at grade 4

- Reading: Trends in grade 4 reading varied by subgroup and achievement level. Of the 10 trend lines analyzed across two achievement levels in reading, 5 showed gains, 4 showed no net change, and 1 showed declines.
- <u>Math</u>: The five subgroups analyzed made moderate-to-large gains in math at the proficient-and-above and advanced levels. Gains were notably large for African American and low-income students at the proficient-and-above level.

Gap trends at three grade levels

- <u>General trend</u>: With just one exception, achievement gaps for African American, Latino, and low-income students narrowed in reading and math at the elementary and high school levels. The exception was for African American students in grade 11 reading, where the gap narrowed according to average test scores but remained the same according to percentages scoring proficient.
- <u>Progress</u>: Notable progress in closing achievement gaps was made by African American students and low-income students in grade 4
 math.

• Asian subgroup: The Asian subgroup consistently outperformed white students in grade 4 reading and math and in grade 11 math. In grade 11 reading, Asian students started out behind white students in 2002 but surpassed them by 2008.

Data notes

- <u>Limited data</u>: Trends for grade 8 were not analyzed because New Jersey began administering a new middle school test in 2007-08. None of New Jersey's three achievement levels is equivalent to the basic level, so trends at this level could not be determined.
- <u>Subgroups analyzed</u>: Trends were analyzed for white, African American, Latino, Asian American, and low-income students. The Native
 American subgroup is too small in New Jersey to yield reliable trend data. Trends for students with disabilities, English language learners,
 and male and female students have not been summarized because they will be discussed in separate reports.
- <u>Grades analyzed</u>: Analyses of subgroup trends by achievement levels are limited to one elementary grade because of the massive amounts of data involved and because this is the pilot year of a process that CEP hopes to extend to the middle and high school levels in future years. Analyses of achievement gap trends cover grades 4 and 11.

Data Limitations

| Years of | comparable | nercentage | proficient data | |
|-----------|--------------|------------|-----------------|--|
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Years of comparable mean scale score data

Disaggregated data for all subgroups and comparison groups

2004 - 2008: Grade 3

2001– 2008: Grade 4 reading 1999 – 2008: Grade 4 math

 $2006-2007 \colon \text{Grades 5--7}$ (new grades 5-7 tests implemented in

2008)

1999 – 2007: Grade 8 (new grade 8 test implemented in 2008)

2002 - 2008: Grade 11

Available for the following years:

2003–2008: Grade 4 and grade 11

2003-2007: Grade 8 reading

Percentage proficient data available 2002 through 2008 for grades 4 and 11; available 2002 through 2007 for grade 8 (new grade 8 test implemented in 2008)

Mean scale score data available 2003 through 2008 for grades 4 and 11; available 2003 through 2007 for grade 8 (new grade 8 test implemented in 2008)

Percentage proficient data and mean scale score data not available until 2007 for comparison group of students who are *not* disabled and not available for any year for students who are *not* English language learners (ELL), so the students with disabilities

and ELL subgroups are compared with all tested students in the state

Percentage proficient data for comparison group of students who are not low-income not available until 2003 for grades 4 and 11.

Mean scale score data not available for students with disabilities and

ELLs until 2006.f

Numbers of test-takers by subgroup

Not available until 2003 for most subgroups for grade 4

Test Characteristics

The characteristics highlighted below are for the state reading and mathematics tests used for accountability under the No Child Left Behind Act (NCLB).

Test(s) used for NCLB accountability New Jersey Assessment of Skills and Knowledge, grades 3-7 (NJ

ASK 3, 4, 5, 6, 7; NJ ASK grade 8 implemented in 2008)

Grade Eight Proficiency Assessment (GEPA; last administered 2007)

High School Proficiency Assessment (HSPA), grade 11

Alternate Proficiency Assessment

Grades tested for NCLB accountability

State labels for achievement levels NJ uses three achievement levels: Partially Proficient, Proficient, and

3-8.11

Yes

Advanced Proficient. For our analyses we treated Proficient as

Proficient and Advanced Proficient as Advanced, No NJ achievement level was treated as our Basic.

High school NCLB test also used as an exit exam?

First year test used 1998: GEPA (last administered in 2006-07)

1999: NJ ASK 4 math

2001: NJ ASK 4 language arts

2002: HSPA 2004: NJ ASK 3

2006: NJ ASK 5, 6, 7 (last administered in 2006-07)

2008: NJ ASK 5-8 (implemented to replace GEPA and 2006 versions

of the NJ ASK 5, 6, 7).

Time of test administration Spring

Major changes in testing system (2002-present) 1999: Standards set for the Elementary School Proficiency

Assessment (ESPA) and NJASK 4 in math

2001: Standards set for the ESPA and NJ ASK 4 in language arts March 2004: NJ ASK 4 replaced ESPA for accountability purposes (name changed but test content and structure remained the same)

March 2005: NJ ASK 3 first used for accountability purposes 2005–06: Grades 5, 6, and 7 added to testing

Spring 2007: HSPA science assessments began

2008: New NJ ASK grade 5-8 programs were implemented, with new standard settings; replaced GEPA for grade 8

2009: New grade 3-4 programs established in 2009, with standards to be set June 2009.

Achievement by Subgroup — Trends at the Elementary Level

Note: The tables in this profile of subgroup achievement and gap trends begin with table 7. Tables 1 through 6 can be found in the companion state profile of general achievement trends.

Table NJ-7. Percentages of Grade 4 Students by Racial or Ethnic Subgroup Scoring at the Advanced, Proficient and Above, and Basic and Above Levels in Reading

| | | | | Reporting Year | | | | Average Yearly |
|----------------------|------|------|------|------------------|----------------|------|------|------------------------------------|
| Subgroup | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | Percentage Point Gain ¹ |
| | | | | All tested stude | nts | | | |
| Advanced | 6% | 4% | 5% | 4% | 4% | 7% | 5% | -0.2 |
| Proficient and Above | 79% | 78% | 82% | 82% | 80% | 81% | 83% | 0.6 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | White | | | | |
| Advanced | 8% | 5% | 6% | 6% | 5% | 8% | 6% | -0.4 |
| Proficient and Above | 87% | 87% | 90% | 89% | 88% | 88% | 89% | 0.4 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | African Americ | an | | | |
| Advanced | 1% | 1% | 1% | 1% | 1% | 2% | 1% | 0.0 |
| Proficient and Above | 61% | 58% | 67% | 65% | 63% | 63% | 67% | 1.0 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Latino | | | | |
| Advanced | 2% | 1% | 1% | 1% | 1% | 2% | 1% | 0.0 |
| Proficient and Above | 67% | 63% | 69% | 71% | 67% | 69% | 73% | 0.9 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Asian | | | | |
| Advanced | 12% | 8% | 10% | 10% | 9% | 16% | 11% | 0.0 |
| Proficient and Above | 90% | 89% | 92% | 92% | 91% | 92% | 93% | 0.4 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Native America | n ² | | | |
| Advanced | 6% | 2% | 4% | 2% | 3% | 4% | 5% | -0.1 |
| Proficient and Above | 74% | 79% | 80% | 82% | 73% | 74% | 72% | -0.3 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |

Table reads: The percentage of white 4th graders who scored at the advanced level on the state reading test decreased from 8% in 2002 to 6% in 2008. During this period, the average yearly decline in the percentage advanced in reading for white 4th graders was 0.4 percentage points per year.

¹Averages are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2008 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

Table NJ-8. Percentage of Grade 4 Students by Demographic Subgroup Scoring at the Advanced, Proficient and Above, and Basic and Above Levels in Reading

| | | | | Reporting Year | | | | Average Yearly |
|----------------------|------|------|------|-------------------|-----------------------|------|------|------------------------------------|
| Subgroup | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | Percentage Point Gain ¹ |
| | | | | All tested stude | nts | | | |
| Advanced | 6% | 4% | 5% | 4% | 4% | 7% | 5% | -0.2 |
| Proficient and Above | 79% | 78% | 82% | 82% | 80% | 81% | 83% | 0.6 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | L | ow-income stud | ents | | | |
| Advanced | 1% | 1% | 1% | 1% | 1% | 2% | 1% | 0.0 |
| Proficient and Above | 62% | 58% | 66% | 67% | 63% | 65% | 69% | 1.1 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | Stu | idents with disal | oilities ³ | | | |
| Advanced | 1% | 0% | 1% | 1% | 1% | 1% | 1% | 0.1 |
| Proficient and Above | 43% | 42% | 49% | 49% | 49% | 50% | 55% | 3.1 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | Eng | lish language le | arners ³ | | | |
| Advanced | 0% | 0% | 1% | 0% | 1% | 1% | 1% | -0.1 |
| Proficient and Above | 45% | 31% | 49% | 46% | 44% | 45% | 61% | 8.1 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Female | | | | |
| Advanced | 9% | 6% | 7% | 7% | 6% | 9% | 7% | -0.3 |
| Proficient and Above | 85% | 83% | 87% | 87% | 84% | 84% | 86% | 0.3 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Male | | | | |
| Advanced | 4% | 2% | 3% | 2% | 2% | 4% | 3% | -0.2 |
| Proficient and Above | 74% | 72% | 78% | 77% | 76% | 77% | 79% | 0.9 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |

Table reads: The percentage of low-income 4th graders who scored at the advanced level on the state reading test was 1% in 2002 and 2008. During this period, the average yearly gain in the percentage advanced in reading for low-income 4th graders was 0.0 percentage points per year.

¹Averages are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2008 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

³Gap trends for students with disabilities and English language learners should be interpreted with caution because state and federal policy changes may have affected the year-to-year comparability of test results for these subgroups. Average yearly percentage point gains are based on 2006-2008 results.

Table NJ-9. Percentages of Grade 4 Students by Racial or Ethnic Subgroup Scoring at the Advanced, Proficient and Above, and Basic and Above Levels in Mathematics

| | | | | Reporting Year | | | | Average Yearly |
|----------------------|------|------|------|------------------|-----------------|------|------|------------------------------------|
| Subgroup | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | Percentage Point Gain ¹ |
| | | | | All tested stude | ents | | | |
| Advanced | 27% | 25% | 26% | 32% | 41% | 41% | 40% | 2.2 |
| Proficient and Above | 69% | 68% | 72% | 80% | 82% | 85% | 85% | 2.7 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | White | | | | |
| Advanced | 36% | 32% | 31% | 37% | 49% | 50% | 49% | 2.2 |
| Proficient and Above | 80% | 79% | 81% | 88% | 90% | 92% | 92% | 1.9 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | African Americ | an | | | |
| Advanced | 7% | 9% | 11% | 15% | 18% | 19% | 19% | 2.0 |
| Proficient and Above | 39% | 42% | 50% | 60% | 63% | 68% | 68% | 4.9 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Latino | | | | |
| Advanced | 12% | 13% | 15% | 20% | 27% | 25% | 25% | 2.1 |
| Proficient and Above | 53% | 52% | 59% | 70% | 72% | 75% | 76% | 3.9 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Asian | | | | |
| Advanced | 47% | 48% | 47% | 56% | 66% | 66% | 64% | 2.8 |
| Proficient and Above | 86% | 87% | 88% | 92% | 94% | 95% | 95% | 1.4 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Native America | an ² | | | |
| Advanced | 33% | 26% | 27% | 35% | 40% | 31% | 39% | 1.0 |
| Proficient and Above | 67% | 68% | 73% | 79% | 78% | 81% | 83% | 2.8 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |

Table reads: The percentage of white 4th graders who scored at the advanced level on the state math test increased from 36% in 2002 to 49% in 2008. During this period, the average yearly gain in the percentage advanced in math for white 4th graders was 2.2 percentage points per year.

¹Averages are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2008 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

Table NJ-10. Percentage of Grade 4 Students by Demographic Subgroup Scoring at the Advanced, Proficient and Above, and Basic and Above Levels in Mathematics

| | | | | Reporting Year | | | | Average Yearly |
|----------------------|------|------|------|------------------|-----------------------|------|------|-----------------------|
| Subgroup | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | Percentage Point Gain |
| | | | | All tested stude | nts | | | |
| Advanced | 27% | 25% | 26% | 32% | 41% | 41% | 40% | 2.2 |
| Proficient and Above | 69% | 68% | 72% | 80% | 82% | 85% | 85% | 2.7 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | L | ow-income stud | ents | | | |
| Advanced | 9% | 11% | 13% | 17% | 23% | 22% | 22% | 2.1 |
| Proficient and Above | 45% | 47% | 54% | 65% | 68% | 71% | 72% | 4.5 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | Stu | dents with disal | oilities ³ | | | |
| Advanced | 10% | 8% | 10% | 13% | 20% | 21% | 21% | 0.4 |
| Proficient and Above | 40% | 38% | 46% | 55% | 60% | 64% | 65% | 3.0 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | Eng | lish language le | arners ³ | | | |
| Advanced | 6% | 7% | 11% | 12% | 18% | 15% | 19% | 0.8 |
| Proficient and Above | 36% | 34% | 47% | 51% | 55% | 55% | 65% | 4.7 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Female | | | | |
| Advanced | 25% | 23% | 24% | 31% | 40% | 39% | 40% | 2.4 |
| Proficient and Above | 67% | 67% | 72% | 81% | 82% | 85% | 85% | 3.1 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | | Male | | | | |
| Advanced | 29% | 27% | 27% | 32% | 42% | 43% | 41% | 2.0 |
| Proficient and Above | 70% | 69% | 73% | 80% | 83% | 85% | 85% | 2.4 |
| Basic and Above | NA | NA | NA | NA | NA | NA | NA | NA |

Table reads: The percentage of low-income 4th graders who scored at the advanced level on the state math test increased from 9% in 2002 to 22% in 2008. During this period, the average yearly gain in the percentage advanced in math for low-income 4th graders was 2.1 percentage points per year.

¹Averages are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2008 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

³Gap trends for students with disabilities and English language learners should be interpreted with caution because state and federal policy changes may have affected the year-to-year comparability of test results for these subgroups. Average yearly percentage point gains are based on 2006-2008 results.

Achievement by Subgroup — Gap Trends (Percentages Proficient)

Table NJ-11. Subgroup Achievement Trends in Reading by Percentages Proficient

NOTE: L = Larger gain than comparison group. S = Smaller gain than comparison group. E = Equal gain to comparison group. If the average annual gain for the subgroup of interest, such as African American students, is larger than the average annual gain for the comparison group, such as white students, this indicates that the achievement gap has narrowed. If the average gain for the subgroup of interest is smaller, this means the gap has widened.

| | | | Grad | de 4 | | | | Grade | 8 | | | | Grade | 11 | |
|--|--------------|----------------|--------------|--|---|--------------|----------------|--------------|--|---|--------------|----------------|--------------|--|---|
| Subgroup | Year Span | Starting PP | Ending PP | Average Annual Gain ¹ | Gain Larger or Smaller Than Comparison Group | Year Span | Starting PP | Ending PP | Average Annual Gain ¹ | Gain Larger or Smaller Than Comparison Group | Year Span | Starting PP | Ending PP | Average Annual Gain ¹ | Gain Larger or Smaller Than Comparison Group |
| All tested students | 02-08 | 79% | 83% | 0.6 | | 02-07 | 73% | 74% | NA | | 02-08 | 81% | 83% | 0.3 | |
| White | 02-08 | 87% | 89% | 0.4 | | 02-07 | 84% | 84% | NA | | 02-08 | 88% | 90% | 0.3 | |
| African American | 02-08 | 61% | 67% | 1.0 | L | 02-07 | 46% | 50% | NA | NA | 02-08 | 63% | 65% | 0.3 | E |
| Latino | 02-08 | 67% | 73% | 0.9 | L | 02-07 | 54% | 58% | NA | NA | 02-08 | 64% | 69% | 0.7 | L |
| Asian Native | 02-08 | 90% | 93% | 0.4 | Е | 02-07 | 87% | 87% | NA | NA | 02-08 | 87% | 91% | 0.6 | L |
| American | 02-08 | 74% | 72% | -0.32 | S | 02-07 | 68% | 70% | NA | NA | 02-08 | 63% | 77% | 2.32 | L |
| Not low- income | 03-08 | 86% | 89% | 0.6 | | 02-07 | 82% | 82% | NA | | 03-08 | 84% | 87% | 0.6 | |
| Low-income | 03-08 | 58% | 69% | 2.1 | L | 02-07 | 47% | 52% | NA | NA | 03-08 | 57% | 65% | 1.5 | L |
| All tested students | 06-08 | 80% | 83% | 1.3 | | 06-07 | 74% | 74% | NA | | 06-08 | 84% | 83% | -0.4 | |
| Students with disabilities ³ | 06-08 | 49% | 55% | 3.1 | L | 06-07 | 33% | 33% | NA | NA | 06-08 | 45% | 43% | -0.8 | S |
| All tested students | 06-08 | 80% | 83% | 1.3 | | 06-07 | 74% | 74% | NA | | 06-08 | 84% | 83% | -0.4 | |
| English language learners ³ | 06-08 | 44% | 61% | 8.1 | L | 06-07 | 16% | 19% | NA | NA | 06-08 | 22% | 29% | 3.4 | L |
| Female | 02-08 | 85% | 86% | 0.3 | | 02-07 | 79% | 81% | NA | | 02-08 | 86% | 87% | 0.3 | |
| Male | 02-08 | 74% | 79% | 0.9 | L | 02-07 | 67% | 67% | NA | NA | 02-08 | 77% | 78% | 0.3 | E |

Table reads: In 2002, 87% of white 4th graders and 61% of African American 4th graders scored at the proficient level on the state reading test. In 2008, 89% of

white 4th graders and 67% of African American 4th graders scored at the proficient level in reading. Between 2002 and 2008, the percentage proficient improved at an average rate of 0.4 percentage point per year for white students and 1.0 percentage points per year for African American students, indicating a larger rate of gain and a narrowing of the achievement gap for African American 4th graders.

¹Numbers in these columns are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2008 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

³Trends for students with disabilities and English language learners should be interpreted with caution because state and federal policy changes may have affected the year-to-year comparability of test results for these subgroups.

Table NJ-12. Subgroup Achievement Trends in Mathematics by Percentages Proficient

NOTE: L = Larger gain than comparison group. S = Smaller gain than comparison group. E = Equal gain to comparison group. If the average annual gain for the subgroup of interest, such as African American students, is larger than the average annual gain for the comparison group, such as white students, this indicates that the achievement gap has narrowed. If the average gain for the subgroup of interest is smaller, this means the gap has widened.

| | | | Grad | de 4 | | | | Grade | 8 | | | | Grade | 11 | |
|--|--------------|----------------|--------------|--|---|--------------|----------------|--------------|--|---|--------------|----------------|--------------|--|---|
| Subgroup | Year Span | Starting PP | Ending PP | Average Annual Gain ¹ | Gain Larger or Smaller Than Comparison Group | Year Span | Starting PP | Ending PP | Average Annual Gain ¹ | Gain Larger or Smaller Than Comparison Group | Year Span | Starting PP | Ending PP | Average Annual Gain ¹ | Gain Larger or Smaller Than Comparison Group |
| All tested students | 02-08 | 69% | 85% | 2.7 | | 02-07 | 58% | 68% | NA | | 02-08 | 69% | 75% | 1.0 | |
| White | 02-08 | 80% | 92% | 1.9 | | 02-07 | 70% | 81% | NA | | 02-08 | 79% | 85% | 1.0 | |
| African American | 02-08 | 39% | 68% | 4.9 | L | 02-07 | 25% | 38% | NA | NA | 02-08 | 36% | 45% | 1.6 | L |
| Latino | 02-08 | 53% | 76% | 3.9 | L | 02-07 | 37% | 51% | NA | NA | 02-08 | 45% | 57% | 2.0 | L |
| Asian Native | 02-08 | 86% | 95% | 1.4 | S | 02-07 | 83% | 88% | NA | NA | 02-08 | 84% | 91% | 1.1 | L |
| American | 02-08 | 67% | 83% | 2.82 | L | 02-07 | 55% | 57% | NA | NA | 02-08 | 57% | 69% | 1.92 | L |
| Not low- income | 03-08 | 77% | 91% | 2.7 | | 02-07 | 67% | 77% | NA | | 03-08 | 71% | 80% | 1.8 | |
| Low-income | 03-08 | 47% | 72% | 5.0 | L | 02-07 | 30% | 45% | NA | NA | 03-08 | 36% | 52% | 3.2 | L |
| All tested students | 06-08 | 82% | 85% | 1.2 | | 06-07 | 65% | 68% | NA | | 06-08 | 76% | 75% | -0.6 | |
| Students with disabilities ³ | 06-08 | 60% | 65% | 3.0 | L | 06-07 | 25% | 29% | NA | NA | 06-08 | 32% | 32% | 0.0 | L |
| All tested students | 06-08 | 82% | 85% | 1.2 | | 06-07 | 65% | 68% | NA | | 06-08 | 76% | 75% | -0.6 | |
| English language learners ³ | 06-08 | 55% | 65% | 4.7 | L | 06-07 | 23% | 26% | NA | NA | 06-08 | 33% | 36% | 1.6 | L |
| Female | 02-08 | 67% | 85% | 3.1 | | 02-07 | 59% | 68% | NA | | 02-08 | 68% | 75% | 1.1 | |
| Male | 02-08 | 70% | 85% | 2.4 | S | 02-07 | 58% | 69% | NA | NA | 02-08 | 69% | 75% | 1.0 | S |

Table reads: In 2002, 80% of white 4th graders and 39% of African American 4th graders scored at the proficient level on the state math test. In 2008, 92% of white 4th graders and 68% of African American 4th graders scored at the proficient level in math. Between 2002 and 2008, the percentage proficient improved at an average rate of 1.9 percentage points per year for white students and 4.9 percentage points per year for African American students, indicating a larger rate of gain

and a narrowing of the achievement gap for African American 4th graders.

¹Numbers in these columns are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2008 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

³Trends for students with disabilities and English language learners should be interpreted with caution because state and federal policy changes may have affected the year-to-year comparability of test results for these subgroups.

Achievement by Subgroup — Gap Trends (Mean Scale Scores)

Table NJ-13. Achievement Gap Trends in Reading by Mean Scale Scores

NOTE: L = Larger gain than comparison group. S = Smaller gain than comparison group. E = Equal gain to comparison group.

If the average gain for the subgroup of interest, such as African American students, is larger than the average gain for the comparison group, such as white students, this indicates that the achievement gap has narrowed. If the average gain for the subgroup of interest is smaller, this means the gap has widened.

| | | | | Grade | e 4 | | | | Grade | e 8 | | | | Grade | 11 | |
|---|-----------|-------|----------|--------|-----------------------------------|---|-------|----------|--------|-----------------------------------|---|-------|----------|--------|-----------------------------------|---|
| | | Year | Starting | Ending | Average Gain (Mean Scale | Gain Larger or Smaller than Comparison | Year | Starting | Ending | Average Gain (Mean Scale | Gain Larger or Smaller than Comparison | Year | Starting | Ending | Average Gain (Mean Scale | Gain Larger or Smaller than Comparison |
| Subgroup | Statistic | Span | Year | Year | Score) ¹ | Group | Span | Year | Year | Score) ¹ | Group | Span | Year | Year | Score) ¹ | Group |
| All tested students | Mean SS | 03-08 | 214.6 | 215.6 | 0.2 | | 03-07 | 212.8 | 214.9 | NA | | 03-08 | 219.8 | 220.8 | 0.2 | |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| | | | | | | | | | | | | | | | | |
| White | Mean SS | 03-08 | 220.9 | 220.6 | -0.1 | | 03-07 | 220.8 | 222.5 | NA | | 03-08 | 227.5 | 228.0 | 0.1 | |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| African American | Mean SS | 03-08 | 201.8 | 203.6 | 0.4 | L | 03-07 | 194.3 | 197.3 | NA | NA | 03-08 | 199.8 | 202.8 | 0.6 | L |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| Latino | Mean SS | 03-08 | 203.1 | 207.1 | 0.8 | L | 03-07 | 197.8 | 201.7 | NA | NA | 03-08 | 201.5 | 206.1 | 0.9 | L |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| Asian | Mean SS | 03-08 | 224.9 | 226.1 | 0.2 | L | 03-07 | 225.6 | 229.4 | NA | NA | 03-08 | 229.5 | 232.0 | 0.5 | L |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| Native American | Mean SS | 03-08 | 213.8 | 210.0 | -0.8^{2} | S | 03-07 | 205.5 | 210.3 | NA | NA | 03-08 | 215.6 | 215.6 | 0.0^{2} | S |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| | | 02.00 | | | | | 02.07 | | | | | 02.00 | | | | |
| Not Low-income | Mean SS | 03-08 | 220.3 | 220.5 | 0.0 | | 03-07 | 219.4 | 221.1 | NA | | 03-08 | 223.9 | 225.1 | 0.2 | |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| Low-income | Mean SS | 03-08 | 201.1 | 204.3 | 0.6 | L | 03-07 | 193.8 | 198.1 | NA | NA | 03-08 | 196.2 | 202.7 | 1.3 | L |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| All tested students | Mean SS | 06-08 | 214.6 | 215.6 | 0.5 | | 06-07 | 212.8 | 214.9 | NA | | 06-08 | 219.8 | 220.8 | 0.5 | |
| 7 III COCCOU OLUGOINO | SD | 06-08 | NA | NA | 0.0 | | 06-07 | NA | NA | | | 06-08 | NA | NA | 0.0 | |
| Students with disabilities ³ | Mean SS | 06-08 | 194.3 | 195.6 | 0.7 | L | 06-07 | 184.2 | 185.1 | NA | NA | 06-08 | 187.0 | 185.6 | -0.7 | S |
| oladonio min dicabililico | SD | 06-08 | NA | NA | 0 | _ | 06-07 | NA | NA | | | 06-08 | NA | NA | 0., | G |
| | | | | | | | | | | | | | | | | |
| All tested students | Mean SS | 06-08 | 214.6 | 215.6 | 0.5 | | 06-07 | 212.8 | 214.9 | NA | | 06-08 | 219.8 | 220.8 | 0.5 | |
| | SD | 06-08 | NA | NA | | | 06-07 | NA | NA | | | 06-08 | NA | NA | | |
| English language learners ³ | Mean SS | 06-08 | 191.1 | 199.1 | 4.0 | L | 06-07 | 170.7 | 173.4 | NA | NA | 06-08 | 171.0 | 175.4 | 2.2 | L |
| | SD | 06-08 | NA | NA | | | 06-07 | NA | NA | | | 06-08 | NA | NA | | |
| | | | | | | | | | | | | | | | | |
| Female | Mean SS | 03-08 | 219.1 | 219.4 | 0.1 | | 03-07 | 218.3 | 221.1 | NA | | 03-08 | 225.2 | 226.3 | 0.2 | |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |

| | | | | Grade | e 4 | | | | Grade | e 8 | | | | Grade | 11 | |
|----------|-----------|-------|----------|--------|-----------------------------------|---|-------|----------|--------|-----------------------------------|---|-------|----------|--------|-----------------------------------|---|
| | | Year | Starting | Ending | Average Gain (Mean Scale | Gain Larger or Smaller than Comparison | Year | Starting | Ending | Average Gain (Mean Scale | Gain Larger or Smaller than Comparison | Year | Starting | Ending | Average Gain (Mean Scale | Gain Larger or Smaller than Comparison |
| Subgroup | Statistic | Span | Year | Year | Score) ' | Group | Span | Year | Year | Score) ' | Group | Span | Year | Year | Score) ' | Group |
| Male | Mean SS | 03-08 | 210.3 | 212.1 | 0.4 | L | 03-07 | 207.6 | 209.0 | NA | NA | 03-08 | 214.4 | 215.4 | 0.2 | E |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |

Table reads: In 2003, the mean scale score on the state 4th grade reading test was 220.9 for white students and 201.8 for African American students. In 2008, the mean scale score in 4th grade reading was 220.6 for white students and 203.6 for African American students. Between 2003 and 2008, the mean scale score declined at an average yearly rate of 0.1 points for white students and improved at an average yearly rate of 0.4 points for African American students, indicating a narrowing of the achievement gap for African Americans.

¹Numbers in these columns are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2008 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

³Gap trends for students with disabilities and English language learners should be interpreted with caution because state and federal policy changes may have affected the year-to-year comparability of test results for these subgroups.

Table NJ-14. Subgroup Achievement Trends in Mathematics by Mean Scale Scores

NOTE: L = Larger gain than comparison group. S = Smaller gain than comparison group. E = Equal gain to comparison group.

If the average gain for the subgroup of interest, such as African American students, is larger than the average gain for the comparison group, such as white students, this indicates that the achievement gap has narrowed. If the average gain for the subgroup of interest is smaller, this means the gap has widened.

| | | | | Grade | e 4 | | | | Grade | e 8 | | | | Grade | 11 | |
|---|-----------|--------------|------------------|----------------|--|--|--------------|------------------|----------------|---------------------------------|--|--------------|------------------|----------------|--|--|
| Subgroup | Statistic | Year Span | Starting Year | Ending Year | Average Gain (Mean Scale Score) ¹ | Gain Larger or Smaller than Comparison Group | Year Span | Starting Year | Ending Year | Average Gain (Mean Scale Score) | Gain Larger or Smaller than Comparison Group | Year Span | Starting Year | Ending Year | Average Gain (Mean Scale Score) ¹ | Gain Larger or Smaller than Comparison Group |
| All tested students | Mean SS | 03-08 | 217.3 | 234.6 | 3.5 | 2.724 | 03-07 | 209.2 | 215.5 | NA | 2.226 | 03-08 | 214.9 | 221.2 | 1.3 | 2.004 |
| , in toolog oldgenie | SD | 03-08 | NA | NA | 0.0 | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| | | | | | | | | | | | | | | | | |
| White | Mean SS | 03-08 | 226.5 | 242.2 | 3.1 | | 03-07 | 218.2 | 224.8 | NA | | 03-08 | 223.7 | 229.5 | 1.2 | |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| African American | Mean SS | 03-08 | 194.3 | 215.3 | 4.2 | L | 03-07 | 185.1 | 191.8 | NA | NA | 03-08 | 188.5 | 196.2 | 1.5 | L |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| Latino | Mean SS | 03-08 | 202.9 | 222.3 | 3.9 | L | 03-07 | 192.8 | 200.1 | NA | NA | 03-08 | 194.5 | 204.3 | 2.0 | L |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| Asian | Mean SS | 03-08 | 238.3 | 251.5 | 2.6 | S | 03-07 | 232.0 | 238.1 | NA | NA | 03-08 | 233.9 | 241.8 | 1.6 | L |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| Native American | Mean SS | 03-08 | 216.3 | 233.1 | 3.4^{2} | L | 03-07 | 204.0 | 207.9 | NA | NA | 03-08 | 208.4 | 214.1 | 1.12 | S |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| Not Low-income | Mean SS | 03-08 | 225.3 | 241.5 | 3.2 | | 03-07 | 216.5 | 222.8 | NA | | 03-08 | 219.2 | 226.0 | 1.4 | |
| NOT LOW-INCOME | SD | 03-08 | 223.3 NA | NA | J.Z | | 03-07 | 210.5 NA | NA | IVA | | 03-08 | 217.2 NA | NA | 1.4 | |
| Low-income | Mean SS | 03-08 | 198.3 | 218.9 | 4.1 | L | 03-07 | 188.6 | 196.1 | NA | NA | 03-08 | 190.2 | 200.7 | 2.1 | L |
| LOW INCOME | SD | 03-08 | NA | NA | 7.1 | _ | 03-07 | NA | NA | 14/1 | 1471 | 03-08 | NA | NA | 2.1 | _ |
| | | | | | | | | | | | | | | | | |
| All tested students | Mean SS | 06-08 | 217.3 | 234.6 | 8.7 | | 06-07 | 209.2 | 215.5 | NA | | 06-08 | 214.9 | 221.2 | 3.2 | |
| | SD | 06-08 | NA | NA | | | 06-07 | NA | NA | | | 06-08 | NA | NA | | |
| Students with disabilities ³ | Mean SS | 06-08 | 208.9 | 213.9 | 2.5 | S | 06-07 | 182.9 | 185.2 | NA | NA | 06-08 | 187.7 | 187.0 | -0.4 | S |
| | SD | 06-08 | NA | NA | | | 06-07 | NA | NA | | | 06-08 | NA | NA | | |
| | | 0/ 00 | | | | | 0/ 07 | | | | | 0/ 00 | | | | |
| All tested students | Mean SS | 06-08 | 217.3 | 234.6 | 8.7 | | 06-07 | 209.2 | 215.5 | NA | | 06-08 | 214.9 | 221.2 | 3.2 | |
| | SD | 06-08 | NA | NA | | | 06-07 | NA | NA | | | 06-08 | NA | NA | | |
| English language learners ³ | Mean SS | 06-08 | 205.8 | 213.2 | 3.7 | S | 06-07 | 180.8 | 183.8 | NA | NA | 06-08 | 190.4 | 190.5 | 0.1 | S |
| | SD | 06-08 | NA | NA | | | 06-07 | NA | NA | | | 06-08 | NA | NA | | |
| Female | Mean SS | 03-08 | 215.8 | 234.6 | 3.8 | | 03-07 | 207.9 | 214.6 | NA | | 03-08 | 212.9 | 219.9 | 1.4 | |

| | | | | Grade | e 4 | | | | Grade | e 8 | | | | Grade | 11 | |
|----------|-----------|--------------|------------------|----------------|--|--|--------------|------------------|----------------|--|--|--------------|------------------|----------------|--|--|
| Subgroup | Statistic | Year Span | Starting Year | Ending Year | Average Gain (Mean Scale Score) ¹ | Gain Larger or Smaller than Comparison Group | Year Span | Starting Year | Ending Year | Average Gain (Mean Scale Score) ¹ | Gain Larger or Smaller than Comparison Group | Year Span | Starting Year | Ending Year | Average Gain (Mean Scale Score) ¹ | Gain Larger or Smaller than Comparison Group |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |
| Male | Mean SS | 03-08 | 218.8 | 234.6 | 3.2 | S | 03-07 | 210.6 | 216.4 | NA | NA | 03-08 | 216.7 | 222.4 | 1.1 | S |
| | SD | 03-08 | NA | NA | | | 03-07 | NA | NA | | | 03-08 | NA | NA | | |

Table reads: In 2003, the mean scale score on the state 4th grade math test was 226.5 for white students and 194.3 for African American students. In 2008, the mean scale score in 4th grade math was 242.2 for white students and 215.3 for African American students. Between 2003 and 2008, the mean scale score improved at an average yearly rate of 3.1 points for white students and 4.2 points for African American students, indicating a narrowing of the achievement gap for African Americans.

¹Numbers in these columns are subject to rounding error.

²The number of students tested in this subgroup at this grade level was fewer than 500 in 2008 or the most recent year with available data, so changes for this subgroup should be interpreted with caution.

³Gap trends for students with disabilities and English language learners should be interpreted with caution because state and federal policy changes may have affected the year-to-year comparability of test results for these subgroups.

Table NJ-15. Numbers of Test-Takers

| | | | | Grade | 2 4 | | | | Grade | 8 | | | | Grade | 11 | |
|----------------------|---------|--------------|--|--|--|---|--------------|--|--|--|---|--------------|--|--|--|---|
| Subgroup | Subject | Year Span | # of Test- Takers Start Year | # of Test- Takers End Year | Change in # of Test- Takers Over Time | % of Test- Takers in Subgroup in End Year | Year Span | # of Test- Takers Start Year | # of Test- Takers End Year | Change in # of Test- Takers Over Time | % of Test- Takers in Subgroup in End Year | Year Span | # of Test- Takers Start Year | # of Test- Takers End Year | Change in # of Test- Takers Over Time | % of Test- Takers in Subgroup in End Year |
| All tested | Reading | 02-08 | 103,507 | 100,740 | -2.7% | 100.0% | 02-07 | 100,543 | 105,865 | 5.3% | 100.0% | 02-08 | 84,509 | 98,056 | 16.0% | 100.0% |
| students | Math | 02-08 | 103,870 | 101,526 | -2.3% | 100.0% | 02-07 | 101,223 | 106,980 | 5.7% | 100.0% | 02-08 | 84,030 | 97,985 | 16.6% | 100.0% |
| White | Reading | 03-08 | 60,327 | 55,408 | -8.2% | 55.0% | 02-07 | 61,143 | 60,739 | -0.7% | 57.4% | 03-08 | 54,778 | 58,608 | 7.0% | 59.8% |
| Willie | Math | 03-08 | 60,205 | 55,527 | -7.8% | 54.7% | 02-07 | 61,400 | 60,943 | -0.7% | 57.0% | 03-08 | 54,713 | 58,572 | 7.1% | 59.8% |
| African | Reading | 03-08 | 19,224 | 16,985 | -11.6% | 16.9% | 02-07 | 17,014 | 18,590 | 9.3% | 17.6% | 03-08 | 12,358 | 15,464 | 25.1% | 15.8% |
| American | Math | 03-08 | 19,203 | 17,073 | -11.1% | 16.8% | 02-07 | 17,285 | 18,823 | 8.9% | 17.6% | 03-08 | 12,289 | 15,449 | 25.7% | 15.8% |
| Latino | Reading | 03-08 | 17,377 | 18,853 | 8.5% | 18.7% | 02-07 | 13,986 | 18,173 | 29.9% | 17.2% | 03-08 | 11,163 | 15,122 | 35.5% | 15.4% |
| Latillo | Math | 03-08 | 17,377 | 19,274 | 10.9% | 19.0% | 02-07 | 14,101 | 18,700 | 32.6% | 17.5% | 03-08 | 11,122 | 15,098 | 35.7% | 15.4% |
| Anion | Reading | 03-08 | 6,450 | 8,497 | 31.7% | 8.4% | 02-07 | 5,712 | 7,565 | 32.4% | 7.1% | 03-08 | 5,165 | 7,657 | 48.2% | 7.8% |
| Asian | Math | 03-08 | 6,441 | 8,637 | 34.1% | 8.5% | 02-07 | 5,720 | 7,688 | 34.4% | 7.2% | 03-08 | 5,163 | 7,660 | 48.4% | 7.8% |
| Native | Reading | 03-08 | 112 | 81 | -27.7% | 0.1% | 02-07 | 115 | 109 | -5.2% | 0.1% | 03-08 | 359 | 134 | -62.7% | 0.1% |
| American | Math | 03-08 | 112 | 83 | -25.9% | 0.1% | 02-07 | 115 | 111 | -3.5% | 0.1% | 03-08 | 360 | 135 | -62.5% | 0.1% |
| Law income | Reading | 03-08 | 31,458 | 30,537 | -2.9% | 30.3% | 02-07 | 24,458 | 28,558 | 16.8% | 27.0% | 03-08 | 13,345 | 18,849 | 41.2% | 19.2% |
| Low-income | Math | 03-08 | 31,449 | 30,942 | -1.6% | 30.5% | 02-07 | 24,792 | 29,182 | 17.7% | 27.3% | 03-08 | 13,287 | 18,833 | 41.7% | 19.2% |
| Students w/ | Reading | 06-08 | 15,553 | 15,665 | 0.7% | 15.5% | 06-07 | 17,076 | 16,971 | -0.6% | 16.0% | 06-08 | 14,038 | 14,460 | 3.0% | 14.7% |
| disabilities | Math | 06-08 | 15,639 | 15,749 | 0.7% | 15.5% | 06-07 | 17,279 | 17,190 | -0.5% | 16.1% | 06-08 | 13,963 | 14,422 | 3.3% | 14.7% |
| English | Reading | 06-08 | 3,017 | 4,593 | 52.2% | 4.6% | 06-07 | 2,437 | 2,384 | -2.2% | 2.3% | 06-08 | 2,581 | 3,066 | 18.8% | 3.1% |
| language learners | Math | 06-08 | 3,725 | 5,260 | 41.2% | 5.2% | 06-07 | 3,149 | 2,962 | -5.9% | 2.8% | 06-08 | 2,583 | 3,075 | 19.0% | 3.1% |
| Fomalo | Reading | 03-08 | 51,820 | 48,900 | -5.6% | 48.5% | 02-07 | 49,183 | 51,579 | 4.9% | 48.7% | 03-08 | 43,598 | 48,543 | 11.3% | 49.5% |
| Female | Math | 03-08 | 51,747 | 49,205 | -4.9% | 48.5% | 02-07 | 49,431 | 54,871 | 11.0% | 51.3% | 03-08 | 43,509 | 48,511 | 11.5% | 49.5% |
| Male | Reading | 03-08 | 54,330 | 51,824 | -4.6% | 51.4% | 02-07 | 51,234 | 54,235 | 5.9% | 51.2% | 03-08 | 44,646 | 49,486 | 10.8% | 50.5% |
| IVIAIC | Math | 03-08 | 54,253 | 52,299 | -3.6% | 51.5% | 02-07 | 51,656 | 52,049 | 0.8% | 48.7% | 03-08 | 44,539 | 49,447 | 11.0% | 50.5% |

Table reads: In 2003, 60,327 students in the white subgroup took the state 4th grade reading test. By 2008, the number of white test-takers had fallen to 55,408 students, a decrease of 8.2%. In 2008, the white subgroup made up 55.0% of the 100,740 4th graders taking the reading test that year.

Note: **Bold** type indicates that the number of students tested in this subgroup at this grade level was fewer than 500 in 2008 or the most recent year with available data.

Key Terms

Percentage proficient (and above) — The percentage of students in a group who score at and above the cut score for "proficient" performance on the state test used to determine progress under NCLB. The Act requires states to report student test performance in terms of at least three achievement levels: basic, proficient, and advanced. Adequate yearly progress determinations are based on the percentage of students scoring at the proficient level and above.

Percentage basic (and above) — The percentage of students in a group who score at and above the cut score for "basic" performance on the state test used to determine progress under NCLB.

Percentage advanced — The percentage of students in a group who reach or exceed the cut score for "advanced" performance on the state test used to determine progress under NCLB.

Moderate-to-large gain — For the percentage basic, proficient, or advanced, an average gain of 1 or more percentage points per year. For effect size, an average gain of 0.02 or greater per year.

Slight gain — For the percentage basic, proficient, or advanced, an average gain of less than 1 percentage point per year. For effect size, an average gain of less than 0.02 per year.

Moderate-to-large decline — For the percentage basic, proficient, or advanced, an average decline of 1 or more percentage points per year. For effect size, an average decline of 0.02 or greater per year.

Slight decline — For the percentage basic, proficient, or advanced, an average decline of less than 1 percentage points per year. For effect size, an average decline of less than 0.02 per year.

Effect size — A statistical tool that conveys the amount of difference between test results using a common unit of measurement which does not depend on the scoring scale for a particular test.

Accumulated annual effect size — The cumulative gain in effect size over a range of years.

Mean scale score — The arithmetical average of a group of test scores, expressed on a common scale for a particular state's test. The mean is calculated by adding the scores and dividing the sum by the number of scores.

Standard deviation — A measure of how much test scores tend to deviate from the mean—in other words, how spread out or bunched together test scores are. If students' scores are bunched together, with many scores close to the mean, then the standard deviation will be small. If scores are spread out, with many students scoring at the high or low ends of the scale, then the standard deviation will be large.

Cautions and Explanations

Different labels for achievement levels — For consistency, all of the state profiles developed for this report use a common set of labels (basic, proficient, and advanced) for the main achievement levels required by NCLB. In practice, however, some states may use different labels, such as "meets standard" instead of proficient, and some states have established additional achievement levels beyond those required by NCLB.

Different names for subgroups — For the sake of consistency and ease of data tabulation, all of the state profiles developed for this report use a common set of names for the major student subgroups. In practice, however, states use various names for subgroups that may differ from those used here (such as using "Hispanic" instead of "Latino," or "special education students" instead of "students with disabilities"). Moreover, a few states separately track the performance of subgroups not included in the analyses for this report.

Special caution for students with disabilities and English language learners — Trends for students with disabilities and English language learners should be interpreted with caution because changes in federal guidance and state accountability plans may have altered which students in these subgroups are tested for accountability purposes, how they are tested, and when their test scores are counted as proficient under NCLB. These factors could affect the year-to-year comparability of test results.

Inclusion of former English language learners — In many states, the subgroup of English language learners (also known as limited English proficient students) includes students who were formerly English language learners but who have achieved English language proficiency or fluency in the last two years. Federal NCLB regulations permit states to include these formerly ELL students (sometimes referred to as "redesignated fluent English proficient" students) in the ELL subgroup for up to two years for purposes of NCLB accountability.

Limitations of percentage proficient measure — The percentage proficient, the main gauge of student performance under NCLB, can be easily understood and gives a snapshot of how many students have met their state's performance expectations. But it also has several limitations as a measure of student achievement. Users of percentage proficient data should keep in mind these limitations, particularly the following:

- * "Proficient" means different things across different states. States vary widely in curriculum, learning expectations, and tests, and state tests differ considerably in their difficulty and cut scores for proficient performance.
- * Although this study has taken steps to avoid comparing test data where there have been "breaks" in comparability resulting from new tests, changes in content standards, revised cut scores, or other major changes in testing programs, the year-to-year comparability of test results in the same state may still be affected by less obvious policy and demographic changes.
- * Changes in student performance may occur that are not reflected in percentage proficient data, such as an increase in the number of students reaching performance levels below and above proficient (such as the basic or advanced levels).
- * The size of the achievement gaps between various subgroups depends in part on where a state sets its cut score for proficiency. For example, if a proficiency cut score is set so high that almost nobody reaches it or so low that almost everyone reaches it, there will be little apparent achievement gap. By contrast, if the cut score is closer to the mean test score, the gaps between subgroups will be more apparent.

Difficulty of attributing causes — Although the tables above show trends in test scores since the enactment of NCLB, one cannot assume that these trends have occurred because of NCLB. It is always difficult to determine a cause-and-effect relationship between test score trends and any specific education policy or program due to the many federal, state, and local reforms undertaken in recent years and due to the lack of an appropriate "control" group of students not affected by NCLB.