APPENDIX A. CALCULATION OF STANDARD ERRORS

Because of NAEP's complex sampling design, conventional formulas for estimating sampling variability that assume simple random sampling are inappropriate. Instead, NAEP provides 62 jackknife weights for a replication procedure that is used to estimate standard errors. Replication methods involve using the weights to construct a number of subsamples, or replicates, from the full sample and computing the statistic of interest for each replicate. The mean square error of the replicate estimates around the full sample estimate provides an estimate of the variance of the statistic.

In this report, the statistic of interest—the change measure—is constructed by the application of regression results estimated using data from one NAEP administration to find predicted probabilities of inclusion for students with disabilities from a second NAEP administration. The standard errors we use in this report for statistical inference take into account error from two sources: (a) NAEP sampling error and (b) the regression estimates.

(a) Sampling error: Using one set of regression coefficients, we aggregate predicted probabilities for the 62 replicate samples.

First, we estimate the regression using initial-year data using NAEP sampling weights (ORIGWT). Using these regression results, we calculate predicted probabilities of inclusion for individual students with disabilities in the second-year data for the state-specific approach and for individual students with disabilities in the initial and second year for the nation-based approach. Then, we obtain the change measure by aggregating individual SD predicted probabilities to the state level using the sampling weights (ORIGWT). Finally, we estimate 62 replicate change measures by aggregating individual SD predicted probabilities to state level 62 times using their replicate weights (SRWT01 – SRWT62).

The error from sampling equals the square root of the sum of the 62 squared differences between the measures using each of the replicate weights and the measure using the sampling weight.

(b) Error from regression estimates: We obtain 62 sets of regression coefficients estimated using replicate sample and then aggregate the full sample for each of 62 sets of predicted probabilities.

First, we estimate the regression using initial-year data using NAEP sampling weights (ORIGWT). Then, we estimate the regression 62 times using initial-year data using the 62 NAEP replicate weights (SRWT01 – SRWT62). Using each of these regression results, we calculate predicted probabilities for individual SDs in second-year data for the state-specific approach, for individual SDs in the initial and second year in the nation-based approach. We obtain the change measure by aggregating individual SD sampling weight predicted probabilities to the state level using the sampling weights (ORIGWT). We obtain 62 replicate change measures by aggregating the 62 individual SD replicate-weight predicted probabilities to the state level using the sampling weights (ORIGWT).

The error from estimation equals the square root of the sum of the 62 squared differences between the measures using each of the replicate weights and the measure using the sampling weight.

The two sources of error, (a) and (b), are then combined to produce the standard error for our change measure: the square root of the sum of the squares of the two error sources. Significance of each statistic is tested using a simple t-test.

APPENDIX B. CHANGES INCLUSION RATES FROM 2003 TO 2005

Prior to, and in anticipation of, the release of the 2007 NAEP results, the methodology presented in this report was developed using 2003 and 2005 NAEP data. These data were used to examine changes in state-level inclusion rates from 2003 to 2005 with 2003 as the initial period and 2005 as the second period. Results are presented in the following tables B-1 to B-10.

| | Actual ra | tes | Predicted | rates | Diff. from p | redicted ¹ | Change | Standard | Composite |
|----------------------|--------------|------|--------------|-------|--------------|-----------------------|---------|----------|--------------------|
| State | 2003 | 2005 | 2003 | 2005 | 2003 | 2005 | 2003-05 | error | index ² |
| Alabama | 85.8 | 89.6 | 75.9 | 74.0 | 9.9 | 15.6 | 5.7 | 3.13 | (4,0) |
| Alaska | 93.8 | 93.7 | 82.2 | 81.0 | 11.6 | 12.7 | 1.1 | 2.64 | (4,0) |
| Arizona | 72.6 | 80.3 | 79.6 | 80.4 | -7.0 | -0.1 | 7.0 | 4.02 | (1,0) |
| Arkansas | 90.7 | 86.3 | 75.5 | 73.6 | 15.2 | 12.6 | -2.5 | 2.86 | (4,0) |
| California | 81.8 | 81.0 | 81.1 | 80.9 | 0.7 | 0.1 | -0.6 | 3.35 | (2,0) |
| Colorado | 85.7 | 83.7 | 78.8 | 76.3 | 7.0 | 7.4 | 0.5 | 3.02 | (3,0) |
| Connecticut | 76.8 | 87.9 | 81.2 | 82.8 | -4.4 | 5.1 | 9.5* | 3.59 | (1,1) |
| Delaware | 61.4 | 58.4 | 78.9 | 80.3 | -17.5 | -21.9 | -4.4 | 3.01 | (1,0) |
| District of Columbia | 73.8 | 67.7 | 70.6 | 67.9 | 3.2 | -0.2 | -3.4 | 3.22 | (2,0) |
| Florida | 90.3 | 88.6 | 79.8 | 81.3 | 10.5 | 7.2 | -3.3 | 2.78 | (4,0) |
| Georgia | 86.8 | 87.9 | 80.4 | 80.9 | 6.4 | 7.0 | 0.6 | 2.69 | (3,0) |
| Hawaii | 86.5 | 85.2 | 80.0 | 75.6 | 6.5 | 9.6 | 3.1 | 3.36 | (3,0) |
| Idaho | 92.6 | 92.2 | 78.8 | 77.0 | 13.8 | 15.2 | 1.4 | 2.43 | (4,0) |
| Illinois | 85.1 | 86.5 | 81.8 | 79.4 | 3.3 | 7.1 | 3.8 | 3.19 | (2,0) |
| Indiana | 87.4 | 91.7 | 83.9 | 85.3 | 3.4 | 6.5 | 3.0 | 3.11 | (2,0) |
| lowa | 85.0 | 88.3 | 80.2 | 83.5 | 4.9 | 4.8 | -0.1 | 2.88 | (3,0) |
| Kansas | 90.6 | 85.7 | 80.2 81.5 | 78.6 | 4.9 9.1 | 4.0 7.1 | -0.1 | 2.66 | (3,0) |
| | 79.0 | 83.7 | 74.5 | 78.0 | 9.1 4.5 | 6.0 | -2.0 | 3.87 | |
| Kentucky | 79.0 86.0 | 83.8 | 74.5 81.1 | 85.0 | 4.5 4.9 | -1.2 | -6.1 | 4.86 | (3,0) |
| Louisiana | | | | | | | | | (3,0) |
| Maine | 83.1 | 83.0 | 79.1 | 78.4 | 4.0 | 4.6 | 0.5 | 3.10 | (2,0) |
| Maryland | 80.2 | 79.4 | 81.1 | 78.6 | -1.0 | 0.8 | 1.7 | 3.87 | (1,0) |
| Massachusetts | 89.5 | 83.9 | 80.1 | 81.9 | 9.4 | 2.0 | -7.5* | 2.85 | (4,-1) |
| Michigan | 66.6 | 74.6 | 77.3 | 78.4 | -10.7 | -3.8 | 6.9 | 4.07 | (1,0) |
| Minnesota | 83.3 | 86.3 | 80.5 | 80.6 | 2.8 | 5.8 | 3.0 | 3.18 | (2,0) |
| Mississippi | 49.5 | 80.4 | 79.7 | 84.3 | -30.2 | -3.8 | 26.4* | 4.06 | (1,1) |
| Missouri | 79.6 | 87.2 | 82.3 | 81.7 | -2.6 | 5.5 | 8.1* | 3.49 | (1,1) |
| Montana | 86.0 | 83.4 | 80.0 | 78.4 | 5.9 | 4.9 | -1.0 | 3.59 | (3,0) |
| Nebraska | 87.5 | 88.7 | 83.8 | 84.0 | 3.7 | 4.8 | 1.1 | 2.66 | (2,0) |
| Nevada | 81.0 | 80.7 | 79.0 | 79.2 | 2.0 | 1.6 | -0.4 | 4.32 | (2,0) |
| New Hampshire | 86.2 | 90.3 | 81.1 | 80.1 | 5.1 | 10.2 | 5.0 | 2.76 | (3,0) |
| New Jersey | 90.4 | 87.7 | 82.1 | 80.4 | 8.2 | 7.3 | -1.0 | 4.14 | (4,0) |
| New Mexico | 90.1 | 89.3 | 77.5 | 78.5 | 12.5 | 10.8 | -1.7 | 3.44 | (4,0) |
| New York | 82.1 | 83.7 | 82.2 | 78.5 | 0.0 | 5.2 | 5.2 | 4.34 | (1,0) |
| North Carolina | 79.1 | 87.5 | 77.7 | 80.9 | 1.4 | 6.6 | 5.2* | 2.61 | (2,1) |
| North Dakota | 89.5 | 85.5 | 82.8 | 83.5 | 6.7 | 2.0 | -4.7* | 2.21 | (3,–1) |
| Ohio | 66.4 | 73.0 | 72.5 | 76.4 | -6.1 | -3.4 | 2.7 | 5.49 | (1,0) |
| Oklahoma | 82.5 | 78.8 | 78.8 | 75.8 | 3.7 | 3.0 | -0.7 | 3.07 | (2,0) |
| Oregon | 81.7 | 78.7 | 80.2 | 78.3 | 1.6 | 0.4 | -1.2 | 3.32 | (2,0) |
| Pennsylvania | 84.8 | 85.3 | 79.3 | 78.6 | 5.5 | 6.7 | 1.2 | 3.97 | (3,0) |
| Rhode Island | 93.1 | 87.9 | 82.3 | 83.2 | 10.8 | 4.7 | -6.1* | 2.70 | (4,-1) |
| South Carolina | 63.7 | 73.8 | 80.8 | 79.6 | -17.1 | -5.8 | 11.3* | 3.39 | (1,1) |
| South Dakota | 91.0 | 91.0 | 83.5 | 85.4 | 7.5 | 5.6 | -1.9 | 2.11 | (4,0) |
| Tennessee | 82.3 | 76.1 | 75.2 | 71.0 | 7.1 | 5.1 | -2.0 | 4.26 | (4,0) |
| Texas | 52.6 | 65.2 | 76.0 | 77.6 | -23.5 | -12.5 | 11.0* | 3.53 | (1,1) |
| Utah | 85.7 | 88.6 | 81.3 | 80.2 | 4.4 | 8.4 | 4.0 | 3.03 | (3,0) |
| Vermont | 78.2 | 80.4 | 75.8 | 75.3 | 2.4 | 5.1 | 2.7 | 2.79 | (0,0) |
| Virginia | 66.6 | 71.6 | 80.2 | 81.3 | –13.6 | -9.7 | 3.9 | 4.24 | (2,0) |
| Washington | 83.1 | 85.4 | 76.8 | 75.3 | 6.3 | _9.7 10.1 | 3.9 | 3.13 | (1,0) |
| | 81.0 | 88.5 | 70.8 | 81.2 | 1.3 | 7.3 | 6.0 | 3.13 | |
| West Virginia | | | | | | | | | (2,0) |
| Wisconsin | 80.3 | 88.3 | 76.1 | 78.7 | 4.2 | 9.6 | 5.4 | 3.21 | (3,0) |
| Wyoming | 92.7 | 91.8 | 83.1 | 80.1 | 9.6 | 11.7 | 2.1 | 2.35 | (4,0) |

 Table B-1. Percentages of students with disabilities in NAEP grade 4 mathematics assessments, estimated using nation-based approach: By state, 2003 and 2005

* Significantly different from zero (p < .05).

Estimate rounds to zero.

¹ The 2003 *difference from predicted* is also the *starting point* measure.

² The composite index (q,s) is the quartile of the starting point, q (from 1, the lowest, to 4, the highest), and statistical significance of the *change* score, s, where s is -1 if the change is negative and statistically significant, 1 if positive and statistically significant, and 0 if changes are not statistically different from zero (p < .05).

| | Actual ra | tes | Predicted | rates | Diff. from pr | edicted ¹ | Change | Standard C | |
|----------------------|--------------|--------------|-----------|-------|---------------|----------------------|----------------|--------------|--------|
| State | 2003 | 2005 | 2003 | 2005 | 2003 | 2005 | 2003-05 | error | index |
| Alabama | 85.6 | 92.3 | 75.2 | 78.4 | 10.3 | 13.9 | 3.5 | 3.16 | (4,0) |
| Alaska | 93.3 | 84.2 | 80.5 | 79.9 | 12.8 | 4.3 | -8.5 * | 2.34 | (4,–1) |
| Arizona | 80.3 | 71.4 | 80.5 | 80.9 | -0.2 | -9.5 | -9.3 | 5.13 | (2,0) |
| Arkansas | 90.7 | 80.2 | 75.3 | 74.6 | 15.5 | 5.6 | -9.8 * | 2.91 | (4,–1) |
| California | 89.6 | 84.4 | 80.0 | 79.4 | 9.7 | 5.0 | -4.6 | 2.54 | (4,0) |
| Colorado | 89.7 | 83.9 | 79.7 | 77.8 | 10.0 | 6.0 | -4.0 | 3.00 | (4,0) |
| Connecticut | 77.6 | 83.7 | 81.0 | 81.5 | -3.4 | 2.3 | 5.7 * | 2.55 | (2,1) |
| Delaware | 48.3 | 34.1 | 73.7 | 77.7 | -25.5 | -43.5 | –18.1 * | 3.51 | (1,–1) |
| District of Columbia | 68.8 | 71.2 | 71.6 | 71.7 | -2.8 | -0.5 | 2.4 | 3.39 | (2,0) |
| Florida | 88.1 | 85.6 | 78.4 | 80.4 | 9.6 | 5.2 | -4.4 | 2.73 | (4,0) |
| Georgia | 86.9 | 82.0 | 79.5 | 80.3 | 7.4 | 1.7 | -5.7 | 3.59 | (3,0) |
| Hawaii | 84.2 | 86.1 | 79.6 | 79.7 | 4.6 | 6.4 | 1.8 | 2.71 | (2,0) |
| Idaho | 95.7 | 86.3 | 81.6 | 76.9 | 14.1 | 9.4 | -4.7 | 2.59 | (4,0) |
| Illinois | 77.3 | 83.7 | 77.5 | 79.7 | -0.2 | 3.9 | 4.2 | 3.50 | (2,0) |
| Indiana | 84.1 | 76.5 | 80.0 | 82.3 | 4.2 | -5.9 | -10.0 * | 3.45 | (2,-1) |
| lowa | 85.7 | 83.8 | 80.3 | 80.2 | 5.4 | 3.6 | -1.8 | 3.03 | (3,0) |
| Kansas | 84.0 | 76.6 | 78.7 | 78.3 | 5.3 | -1.7 | -7.0 * | 3.56 | (3,-1) |
| Kentucky | 68.5 | 72.7 | 74.9 | 78.8 | -6.3 | -6.1 | 0.3 | 4.91 | (1,0) |
| Louisiana | 73.0 | 70.7 | 77.7 | 81.9 | -4.7 | -11.2 | -6.5 | 5.73 | (1,0) |
| Maine | 77.7 | 75.2 | 78.3 | 76.9 | -0.6 | -1.7 | -1.1 | 3.53 | (2,0) |
| Maryland | 75.8 | 67.2 | 79.9 | 79.3 | -4.1 | -12.1 | -7.9 | 5.82 | (1,0) |
| Massachusetts | 88.1 | 68.6 | 80.6 | 81.6 | 7.6 | -13.0 | -20.6 * | 4.11 | (3,-1) |
| Michigan | 67.6 | 69.4 | 76.5 | 78.0 | -8.9 | -8.6 | 0.4 | 4.65 | (1,0) |
| Minnesota | 86.0 | 85.5 | 80.8 | 78.1 | 5.2 | 7.4 | 2.2 | 2.99 | (3,0) |
| Mississippi | 46.7 | 68.6 | 79.3 | 81.8 | -32.7 | -13.2 | 19.5 * | 5.50 | (1,1) |
| Missouri | 77.0 | 72.5 | 81.9 | 78.1 | -4.9 | -5.6 | -0.7 | 4.34 | (1,0) |
| Montana | 85.8 | 84.2 | 78.2 | 79.6 | 7.5 | 4.6 | -2.9 | 2.88 | (3,0) |
| Nebraska | 81.0 | 91.1 | 83.4 | 83.0 | -2.4 | 8.1 | 10.5 * | 2.58 | (2,1) |
| Nevada | 86.7 | 82.4 | 81.3 | 80.7 | 5.4 | 1.7 | -3.7 | 3.20 | (3,0) |
| New Hampshire | 82.7 | 87.9 | 81.4 | 80.0 | 1.3 | 7.9 | 6.6 * | 2.92 | (2,1) |
| New Jersey | 93.8 | 83.1 | 80.7 | 82.1 | 13.1 | 1.0 | -12.1 * | 3.20 | (2,1) |
| New Mexico | 93.8 91.4 | 87.1 | 78.4 | 79.9 | 13.1 | 7.2 | -12.1 | 2.68 | (4,-1) |
| New York | 75.9 | 81.2 | 80.7 | 81.6 | -4.8 | -0.4 | -5.8 4.4 | 4.23 | (4,-1) |
| | 81.0 | 85.8 | 78.3 | 79.4 | -4.0 2.6 | -0.4 6.5 | 3.9 | 4.23 3.40 | |
| North Carolina | 90.0 | 74.0 | 78.6 | 79.4 | 2.0 11.4 | -5.3 | –16.6 * | 2.92 | (2,0) |
| North Dakota | 61.3 | 59.9 | 70.0 | | | | | | (4,-1) |
| Ohio | 87.2 | 59.9 76.5 | | 74.4 | -9.8 | -14.4 | -4.6 -7.1 * | 6.25 | (1,0) |
| Oklahoma | 83.0 | 70.5 82.1 | 80.9 | 77.3 | 6.3 | -0.8 | -7.1 | 3.26 | (3,-1) |
| Oregon | 91.0 | 80.8 | 77.5 | 76.4 | 5.5 | 5.8 | -8.7 * | 3.14 | (3,0) |
| Pennsylvania | 91.0 88.5 | | 80.3 | 78.8 | 10.6 | 2.0 | -0.7 | 3.63 | (4,-1) |
| Rhode Island | | 85.1 | 83.0 | 82.9 | 5.6 | 2.2 | | 2.31 | (3,0) |
| South Carolina | 53.2 | 59.2 | 76.4 | 80.0 | -23.3 | -20.7 | 2.6 | 4.87 | (1,0) |
| South Dakota | 85.3 | 82.9 | 78.2 | 77.7 | 7.2 | 5.1 | -2.1 | 2.40 | (3,0) |
| Tennessee | 82.5 | 68.7 | 76.9 | 74.9 | 5.7 | -6.1 | -11.8 * | 3.98 | (3,–1) |
| Texas | 59.1 | 61.0 | 77.3 | 80.0 | -18.3 | -19.0 | -0.7 | 5.03 | (1,0) |
| Utah | 79.5 | 82.4 | 78.0 | 77.1 | 1.5 | 5.3 | 3.8 | 3.17 | (2,0) |
| Vermont | 84.1 | 79.2 | 79.1 | 77.7 | 5.0 | 1.4 | -3.6 | 2.61 | (2,0) |
| Virginia | 62.6 | 70.9 | 79.7 | 82.5 | -17.1 | -11.6 | 5.5 | 4.30 | (1,0) |
| Washington | 87.3 | 83.0 | 77.0 | 76.8 | 10.3 | 6.2 | -4.1 | 3.09 | (4,0) |
| West Virginia | 82.7 | 83.0 | 79.2 | 81.0 | 3.5 | 2.1 | -1.5 | 3.16 | (2,0) |
| Wisconsin | 84.0 | 78.7 | 75.7 | 76.1 | 8.2 | 2.6 | -5.6 | 3.32 | (3,0) |
| Wyoming | 94.4 | 89.4 | 79.4 | 81.1 | 15.0 | 8.2 | -6.8 * | 2.44 | (4,-1) |

Table B-2. Percentages of students with disabilities in NAEP grade 8 mathematics assessments, estimated using nation-based approach: By state, 2003 and 2005

* Significantly different from zero (p < .05).

¹ The 2003 *difference from predicted* is also the *starting point* measure.

² The composite index (q,s) is the quartile of the starting point, q (from 1, the lowest, to 4, the highest), and statistical significance of the *change* score, s, where s is -1 if the change is negative and statistically significant, 1 if positive and statistically significant, and 0 if changes are not statistically different from zero (p < .05).

| | Actual ra | tes | Predicted | rates | Diff. from pr | edicted ¹ | Change | Standard C | |
|----------------------|--------------|--------------|--------------|--------------|---------------|----------------------|----------------|--------------|--------|
| State | 2003 | 2005 | 2003 | 2005 | 2003 | 2005 | 2003-05 | error | index |
| Alabama | 84.3 | 85.3 | 63.3 | 61.1 | 21.0 | 24.2 | 3.2 | 3.47 | (4,0) |
| Alaska | 86.6 | 84.5 | 68.7 | 66.3 | 17.9 | 18.2 | 0.3 | 3.72 | (4,0) |
| Arizona | 56.5 | 66.7 | 65.0 | 67.2 | -8.5 | -0.6 | 7.9 | 5.42 | (1,0) |
| Arkansas | 63.0 | 53.3 | 61.2 | 61.8 | 1.9 | -8.6 | -10.5 * | 5.09 | (2,-1) |
| California | 74.7 | 74.9 | 70.7 | 71.8 | 4.0 | 3.1 | -1.0 | 4.24 | (3,0) |
| Colorado | 82.9 | 78.6 | 65.2 | 64.0 | 17.7 | 14.7 | -3.0 | 3.17 | (4,0) |
| Connecticut | 73.5 | 78.5 | 70.3 | 66.9 | 3.1 | 11.6 | 8.4 * | 3.86 | (3,1) |
| Delaware | 35.5 | 28.6 | 67.2 | 66.5 | -31.7 | -37.9 | -6.2 * | 3.10 | (1,-1) |
| District of Columbia | 60.0 | 57.7 | 58.0 | 56.7 | 1.9 | 1.0 | -1.0 | 3.60 | (2,0) |
| Florida | 83.6 | 76.0 | 67.9 | 71.5 | 15.8 | 4.5 | -11.2* | 3.72 | (4,-1) |
| Georgia | 77.7 | 59.7 | 68.8 | 66.3 | 8.9 | -6.6 | –15.6 * | 4.12 | (3,-1) |
| Hawaii | 76.6 | 82.5 | 64.6 | 64.3 | 11.9 | 18.2 | 6.3 | 3.86 | (4,0) |
| Idaho | 78.8 | 72.2 | 64.7 | 65.4 | 14.0 | 6.9 | -7.2 | 4.44 | (4,0) |
| Illinois | 71.7 | 65.3 | 67.0 | 66.9 | 4.6 | -1.6 | -6.3 | 4.99 | (3,0) |
| Indiana | 72.6 | 75.2 | 69.3 | 71.8 | 3.3 | 3.4 | 0.1 | 4.86 | (3,0) |
| lowa | 56.4 | 65.2 | 60.6 | 64.6 | -4.2 | 0.6 | 4.7 | 5.61 | (2,0) |
| Kansas | 83.4 | 77.4 | 65.3 | 65.8 | 18.1 | 11.7 | -6.4 * | 3.15 | (4,-1) |
| Kentucky | 41.6 | 45.4 | 64.0 | 63.3 | -22.4 | -17.9 | 4.5 | 4.04 | (1,0) |
| Louisiana | 71.1 | 41.2 | 72.1 | 71.2 | -1.0 | -30.0 | -29.1 * | 5.54 | (2,-1) |
| Maine | 63.7 | 65.8 | 63.5 | 68.1 | 0.1 | -2.3 | -2.5 | 3.75 | (2, 1) |
| | 57.0 | | | | | -2.5 | 5.5 | | |
| Maryland | 57.0 85.1 | 63.3 67.2 | 68.0 69.2 | 68.9 70.3 | –11.0 15.8 | -5.6 -3.0 | 5.5 –18.8 * | 4.06 3.48 | (1,0) |
| Massachusetts | | | | | | | -16.6 6.8 | | (4,-1) |
| Michigan | 44.5 80.2 | 52.3 84.5 | 62.3 66.9 | 63.3 69.6 | -17.9 | -11.1 14.9 | 0.8 1.6 | 5.39 3.00 | (1,0) |
| Minnesota | 80.2 41.3 | | | | 13.3 –28.1 | -9.3 | 1.0 18.8 * | | (4,0) |
| Mississippi | | 66.9 | 69.5 | 76.2 | | | | 4.53 | (1,1) |
| Missouri | 55.5 | 55.8 | 69.0 | 68.2 | -13.5 | -12.5 | 1.0 | 4.17 | (1,0) |
| Montana | 65.3 | 61.1 | 64.3 | 62.1 | 1.0 | -1.0 | -2.0 | 4.70 | (2,0) |
| Nebraska | 78.0 | 75.2 | 73.0 | 74.4 | 5.0 | 0.8 | -4.3 | 4.05 | (3,0) |
| Nevada | 66.2 | 60.4 | 63.4 | 65.0 | 2.8 | -4.5 | -7.3 | 5.00 | (2,0) |
| New Hampshire | 81.0 | 83.0 | 69.0 | 69.7 | 12.0 | 13.4 | 1.4 | 3.68 | (4,0) |
| New Jersey | 76.0 | 73.8 | 67.2 | 68.7 | 8.8 | 5.1 | -3.7 | 5.67 | (3,0) |
| New Mexico | 78.2 | 64.4 | 67.7 | 64.9 | 10.5 | -0.5 | -11.0 * | 5.14 | (3,–1) |
| New York | 63.3 | 74.5 | 70.0 | 67.7 | -6.7 | 6.8 | 13.6 * | 4.43 | (1,1) |
| North Carolina | 64.5 | 83.2 | 65.1 | 70.9 | -0.6 | 12.4 | 13.0 * | 3.88 | (2,1) |
| North Dakota | 76.7 | 64.7 | 74.2 | 71.5 | 2.4 | -6.7 | -9.1 * | 3.61 | (2,–1) |
| Ohio | 53.9 | 40.8 | 59.8 | 59.8 | -5.9 | -18.9 | –13.1 * | 5.58 | (2,–1) |
| Oklahoma | 70.4 | 72.5 | 64.7 | 67.9 | 5.7 | 4.6 | -1.1 | 4.14 | (3,0) |
| Oregon | 63.4 | 69.4 | 65.9 | 67.4 | -2.5 | 2.0 | 4.5 | 3.74 | (2,0) |
| Pennsylvania | 79.1 | 73.3 | 65.1 | 66.7 | 14.0 | 6.5 | -7.5 | 4.41 | (4,0) |
| Rhode Island | 85.5 | 88.0 | 69.4 | 71.3 | 16.1 | 16.7 | 0.6 | 3.14 | (4,0) |
| South Carolina | 56.0 | 61.1 | 70.2 | 71.2 | -14.3 | -10.1 | 4.1 | 3.58 | (1,0) |
| South Dakota | 72.6 | 71.4 | 70.6 | 68.9 | 1.9 | 2.5 | 0.6 | 3.05 | (2,0) |
| Tennessee | 71.8 | 38.4 | 66.8 | 58.4 | 5.0 | -20.0 | -25.0 * | 5.59 | (3,–1) |
| Texas | 48.3 | 58.5 | 65.6 | 71.3 | -17.2 | -12.9 | 4.3 | 4.52 | (1,0) |
| Utah | 80.3 | 72.0 | 69.3 | 66.1 | 11.0 | 5.9 | -5.1 | 3.27 | (3,0) |
| Vermont | 64.5 | 68.4 | 63.3 | 59.7 | 1.2 | 8.6 | 7.5 * | 3.37 | (2,1) |
| Virginia | 44.3 | 36.8 | 67.7 | 67.5 | -23.4 | -30.8 | -7.4 | 4.61 | (1,0) |
| Washington | 69.1 | 76.8 | 62.3 | 62.8 | 6.8 | 14.0 | 7.3 | 4.56 | (3,0) |
| West Virginia | 38.4 | 69.1 | 64.5 | 71.6 | -26.1 | -2.5 | 23.6 * | 3.93 | (1,1) |
| Wisconsin | 68.7 | 71.7 | 62.3 | 63.4 | 6.3 | 8.3 | 1.9 | 4.52 | (3,0) |
| Wyoming | 88.8 | 90.4 | 66.7 | 68.4 | 22.1 | 22.1 | 0.0 | 2.74 | (4,0) |

Table B-3. Percentages of students with disabilities in NAEP grade 4 reading assessments, estimated using nation-based approach: By state, 2003 and 2005

* Significantly different from zero (p < .05).

¹ The 2003 *difference from predicted* is also the *starting point* measure.

² The composite index (q,s) is the quartile of the starting point, q (from 1, the lowest, to 4, the highest), and statistical significance of the *change* score, s, where s is -1 if the change is negative and statistically significant, 1 if positive and statistically significant, and 0 if changes are not statistically different from zero (p < .05).

| State 2003 2005 2003 2005 2003 2005 2003 2005 2003 2005 error Alabarma 81.3 88.0 70.3 72.5 11.0 15.4 4.5 3.95 Alaska 86.3 88.0 71.2 74.0 15.0 14.0 -1.1 2.7 4.3 5.02 Arkansas 72.3 62.0 64.3 63.8 8.0 -1.8 -9.8 5.12 Callornia 78.4 80.1 71.5 72.4 6.9 7.7 0.8 4.29 Calorado 84.0 76.7 68.9 69.7 15.1 7.1 -8.0 4.25 Connectcut 80.3 84.4 76.3 64.2 -2.4 -2.1 0.3 3.23 Florida 77.5 80.2 71.1 73.8 7.3 6.3 -10.0 3.97 Georgia 79.0 62.4 68.0 71.1 71.8 7.6 4 | | Actual rates | Predicted ra | ates | Diff. from p | redicted ¹ | Change | Standard Co | |
|---|--------------------|--------------|--------------|-------|--------------|-----------------------|---------|-------------|--------------------|
| Alaska 86.3 88.0 71.2 74.0 15.0 14.0 -1.1 2.50 Arizona 65.8 73.3 67.4 70.6 -1.7 2.7 4.3 5.02 California 78.4 80.1 71.5 72.4 6.9 7.7 0.8 4.29 Colorado 84.0 76.7 68.9 69.7 15.1 7.1 -8.0 4.25 Colorado 80.3 84.4 76.3 75.0 4.0 9.5 5.5 2.92 Delaware 47.5 33.3 65.6 68.2 -18.1 -34.9 -16.8* 3.48 Florida 77.5 80.2 70.1 73.8 7.3 6.3 -1.0 3.97 Georgia 79.0 62.4 68.0 71.0 11.0 -8.6 -19.6* 5.17 Hawaii 79.1 82.4 72.5 71.8 6.5 10.5 4.0 2.64 Idaho 76.2 8 | ate | 2003 200 | 5 2003 | 2005 | | | 2003-05 | error | index ² |
| Arizona 65.8 73.3 67.4 70.6 -1.7 2.7 4.3 5.02 Arkansas 72.3 62.0 64.3 63.8 8.0 -1.8 -9.8 5.12 California 78.4 80.1 77.5 72.4 6.9 7.7 0.8 4.29 Colorado 84.0 76.7 68.9 69.7 15.1 -7.1 -8.0 4.25 Colorado 80.3 84.4 76.3 75.0 4.0 9.5 5.5 2.92 Delaware 47.5 33.3 65.6 68.2 -18.1 -34.9 -16.8* 3.48 District of Columbia 60.9 62.1 63.3 64.2 -2.4 -2.1 0.3 3.23 Florida 77.5 80.2 70.1 73.8 7.3 6.3 -1.0 3.97 Georgia 79.0 62.4 68.0 71.0 11.0 -8.6 -19.6* 5.17 Idaho 71.4 75.9 73.0 74.0 11.4 2.0 0.6 4.43 | abama | 81.3 88 |) 70.3 | 72.5 | 11.0 | 15.4 | 4.5 | 3.95 | (4,0) |
| Arkansas 72.3 62.0 64.3 63.8 8.0 -1.8 -9.8 5.12 California 78.4 80.1 71.5 72.4 6.9 7.7 0.8 4.29 Colorado 84.0 76.7 68.9 69.7 15.1 7.1 -8.0 4.25 Delaware 47.5 33.3 65.6 68.2 -18.1 -34.9 -16.8* 3.48 District of Columbia 60.9 62.1 63.3 64.2 -2.4 -2.1 0.3 3.23 Florida 77.5 80.2 70.1 73.8 7.3 6.3 -10. 3.97 Georgia 79.0 62.4 68.0 71.0 11.0 -8.6 -19.6* 5.17 Hawai 71.4 72.9 76.2 4.9 -9.1 4.4 9.0 3.91 Illinois 73.4 74.6 7.7 7.7 4.10 -6.4 4.33 Kansas 81.6 72.6 69.0 71.1 2.4 -2.2 -15.4 7.4 Louisi | aska | 86.3 88 |) 71.2 | 74.0 | 15.0 | 14.0 | -1.1 | 2.50 | (4,0) |
| California 78.4 80.1 71.5 72.4 6.9 7.7 0.8 4.29 Colorado 64.0 76.7 68.9 69.7 15.1 7.1 -8.0 4.25 Connecticut 80.3 84.4 76.3 75.0 4.0 9.5 5.5 2.92 Delaware 47.5 33.3 65.6 68.2 -18.1 -34.9 -16.8* 3.48 District of Columbia 60.9 62.1 63.3 64.2 -2.4 -2.1 0.3 3.23 Florida 77.5 80.2 70.1 73.8 7.3 6.3 -10.0 3.97 Georgia 79.0 62.4 68.0 71.0 11.0 -8.6 -19.6* 51.7 Hawaii 79.1 82.4 72.5 71.8 8.6 4.9 3.91 Idaho 76.2 8.15 7.1 7.8 9.1* 3.84 Indiana 78.0 7.4 8.0 12.7 <td>izona</td> <td>65.8 73</td> <td>3 67.4</td> <td>70.6</td> <td>-1.7</td> <td>2.7</td> <td>4.3</td> <td>5.02</td> <td>(2,0)</td> | izona | 65.8 73 | 3 67.4 | 70.6 | -1.7 | 2.7 | 4.3 | 5.02 | (2,0) |
| Colorado 84.0 76.7 68.9 69.7 15.1 7.1 -8.0 4.25 Connecticut 80.3 84.4 76.3 75.0 4.0 9.5 5.5 2.92 Delaware 47.5 33.3 65.6 68.2 -18.1 -34.9 -16.8* 3.48 District of Columbia 60.9 62.1 63.3 64.2 -2.4 -2.1 0.3 3.23 Florida 77.5 80.2 70.1 73.8 7.3 6.3 -1.0 3.97 Georgia 79.0 62.4 68.0 71.0 11.0 -8.6 -19.6* 5.17 Hawaii 79.1 82.4 72.5 71.8 6.6 -0.7 -5.3 4.42 Indian 78.0 73.5 73.2 76.2 4.9 -2.8 -7.7 4.10 Iowa 71.4 75.9 70.0 74.0 1.4 2.0 6.6 4.33 Kansasa 81.6 | kansas | 72.3 62 |) 64.3 | 63.8 | 8.0 | -1.8 | -9.8 | 5.12 | (3,0) |
| Connecticut 80.3 84.4 76.3 75.0 4.0 9.5 5.5 2.92 Delaware 47.5 33.3 65.6 68.2 -18.1 -24.9 -21.0 3.3 3.23 Florida 77.5 80.2 70.1 73.8 7.3 6.3 -1.0 3.97 Georgia 79.0 62.4 68.0 71.0 11.0 -8.6 -19.6* 5.17 Hawaii 73.1 82.4 72.5 71.8 6.5 10.5 4.0 2.64 Idaho 76.2 81.5 71.4 71.9 4.8 9.6 4.9 3.91 Illinois 73.4 72.4 68.7 73.1 4.6 -0.7 -5.3 4.42 Iowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kansas 81.6 72.6 68.9 69.0 12.7 3.7 -9.1* 3.86 Kentucky 46.9 </td <td>llifornia</td> <td>78.4 80</td> <td>1 71.5</td> <td>72.4</td> <td>6.9</td> <td>7.7</td> <td>0.8</td> <td>4.29</td> <td>(3,0)</td> | llifornia | 78.4 80 | 1 71.5 | 72.4 | 6.9 | 7.7 | 0.8 | 4.29 | (3,0) |
| Delaware 47.5 33.3 65.6 68.2 -18.1 -34.9 -16.8* 3.48 District of Columbia 60.9 62.1 63.3 64.2 -2.4 -2.1 0.3 3.23 Georgia 79.0 62.4 68.0 71.0 11.0 -8.6 -19.6* 5.17 Hawaii 79.1 62.4 72.5 71.8 6.5 10.5 4.0 2.64 Idaho 76.2 81.5 71.4 71.9 4.8 9.6 4.9 3.91 Illinois 73.4 72.4 68.7 73.1 4.6 -0.7 -5.3 4.42 Indiana 78.0 73.5 73.2 76.2 4.9 -2.8 -7.7 4.10 Iowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kentucky 46.9 44.8 70.7 67.1 -23.8 -22.3 1.5 4.74 Louisiana 63.6 | olorado | 84.0 76 | 7 68.9 | 69.7 | 15.1 | 7.1 | -8.0 | 4.25 | (4,0) |
| District of Columbia 60.9 62.1 63.3 64.2 -2.4 -2.1 0.3 3.23 Florida 77.5 80.2 70.1 73.8 7.3 6.3 -1.0 3.97 Georgia 79.0 62.4 68.0 71.0 11.0 -8.6 -19.6* 5.17 Hawaii 79.1 82.4 72.5 71.8 6.5 10.5 4.0 2.64 Idaho 76.2 81.5 71.4 71.9 4.8 9.6 4.9 3.91 Illinois 73.4 72.9 70.0 74.0 1.4 2.0 0.6 4.42 Indiana 78.0 73.5 73.2 76.2 4.9 -2.8 -7.7 4.10 Iowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kansas 81.6 72.6 69.0 71.7 -23.8 -22.3 1.5 4.74 Louisiana 62.4 <td< td=""><td>onnecticut</td><td>80.3 84</td><td>4 76.3</td><td>75.0</td><td>4.0</td><td>9.5</td><td>5.5</td><td>2.92</td><td>(2,0)</td></td<> | onnecticut | 80.3 84 | 4 76.3 | 75.0 | 4.0 | 9.5 | 5.5 | 2.92 | (2,0) |
| Fiorida 77.5 80.2 70.1 73.8 7.3 6.3 -1.0 3.97 Georgia 79.0 62.4 68.0 71.0 11.0 -8.6 -19.6* 5.17 Hawaii 79.1 82.4 72.5 71.8 6.5 10.5 4.0 2.64 Idaho 76.2 81.5 71.4 71.9 4.8 9.6 4.9 3.91 Illinois 73.4 72.4 68.7 73.1 4.6 -0.7 -5.3 4.42 Indiana 78.0 73.5 73.2 76.2 4.9 -2.8 -7.7 4.10 Iowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kansas 81.6 72.6 68.9 69.0 12.7 3.7 -9.1* 3.84 Kentucky 46.9 49.8 71.9 71.6 8.6 -2.5 -16.0* 5.86 Maine 71.4 65.9 | laware | 47.5 33 | 3 65.6 | 68.2 | -18.1 | -34.9 | -16.8 * | 3.48 | (1,-1) |
| Georgia 79.0 62.4 68.0 71.0 11.0 -8.6 -19.6* 5.17 Hawaii 79.1 82.4 72.5 71.8 6.5 10.5 4.0 2.64 Idaho 76.2 81.5 71.4 71.9 4.8 9.6 4.9 3.91 Illinois 73.4 72.4 68.7 73.1 4.6 -0.7 -5.3 4.42 Indiana 78.0 73.5 73.2 76.2 4.9 -2.8 -7.7 4.10 Iowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kansas 81.6 72.6 68.0 12.7 3.7 -9.1* 3.84 Kentucky 46.9 44.8 70.7 67.1 -23.8 -22.3 1.5 4.74 Louisina 62.4 49.8 71.9 75.4 -9.6 -2.5 -11.1* 4.98 Masachusetts 83.6 69.0 | strict of Columbia | 60.9 62 | 1 63.3 | 64.2 | -2.4 | -2.1 | 0.3 | 3.23 | (2,0) |
| Hawaii 79.1 82.4 72.5 71.8 6.5 10.5 4.0 2.64 Idaho 76.2 81.5 71.4 71.9 4.8 9.6 4.9 3.91 Illinois 73.4 72.4 68.7 73.1 4.6 -0.7 -5.3 4.42 Inciana 78.0 73.5 73.2 76.2 4.9 -2.8 -7.7 4.10 Iowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kansas 81.6 72.6 68.9 69.0 12.7 3.7 -9.1* 3.84 Kentucky 46.9 44.8 70.7 67.1 -2.8 -22.3 1.5 4.74 Louisiana 62.4 49.8 71.9 75.4 -9.6 -25.6 -16.0* 5.86 Maryland 78.8 69.0 71.3 75.6 12.4 -6.7 -19.0* 3.96 Michigan 51.1 56 | orida | 77.5 80 | 2 70.1 | 73.8 | 7.3 | 6.3 | -1.0 | 3.97 | (3,0) |
| Hawaii 79.1 82.4 72.5 71.8 6.5 10.5 4.0 2.64 Idaho 76.2 81.5 71.4 71.9 4.8 9.6 4.9 3.91 Illinois 73.4 72.4 68.7 73.1 4.6 -0.7 -5.3 4.42 Indiana 78.0 73.5 73.2 76.2 4.9 -2.8 -7.7 4.10 Iowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kansas 81.6 72.6 68.9 69.0 12.7 3.7 -9.1* 3.84 Kentucky 46.9 44.8 70.7 67.1 -23.8 -22.3 1.5 4.74 Louisiana 62.4 49.8 71.9 75.4 -9.6 -25.6 -16.0* 5.86 Marien 71.4 65.9 69.0 71.0 2.4 -5.7 -11.1* 4.98 Massachusetts 83.6 <td< td=""><td>orgia</td><td>79.0 62</td><td>4 68.0</td><td>71.0</td><td>11.0</td><td>-8.6</td><td>–19.6 *</td><td>5.17</td><td>(4,-1)</td></td<> | orgia | 79.0 62 | 4 68.0 | 71.0 | 11.0 | -8.6 | –19.6 * | 5.17 | (4,-1) |
| Idaho 76.2 81.5 71.4 71.9 4.8 9.6 4.9 3.91 Illinois 73.4 72.4 68.7 73.1 4.6 -0.7 -5.3 4.42 Indiana 78.0 73.5 73.2 76.2 4.9 -2.8 -7.7 4.10 Iowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kansas 81.6 72.6 68.9 69.0 12.7 3.7 -9.1* 3.84 Kentucky 46.9 44.8 70.7 67.1 -23.8 -22.3 1.5 4.74 Louisiana 62.4 49.8 71.9 75.4 -9.6 -7.6 3.50 Maryland 78.8 69.1 70.2 71.6 8.6 -2.5 -11.1* 4.98 Masachusetts 83.6 69.0 71.6 71.6 8.0 11.2 3.2 3.25 Mississippi 40.9 58.0 70.9 75.4 -30.0 -17.4 12.6* 5.67 Missouri <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(3,0)</td> | • | | | | | | | | (3,0) |
| Illinois 73.4 72.4 68.7 73.1 4.6 -0.7 -5.3 4.42 Indiana 78.0 73.5 73.2 76.2 4.9 -2.8 -7.7 4.10 Iowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kansas 81.6 72.6 68.9 69.0 12.7 3.7 -9.1* 3.84 Kentucky 46.9 44.8 70.7 67.1 -23.8 -22.3 1.5 4.74 Louisiana 62.4 49.8 71.9 75.4 -9.6 -25.6 -16.0* 5.86 Maine 71.4 65.9 69.0 71.0 2.4 -6.7 -19.0* 3.90 Maryland 78.8 69.1 70.2 71.6 8.6 -11.1* 4.98 Massachusetts 83.6 69.0 71.3 75.6 12.4 -6.7 -19.0* 3.96 Misissispipi 40.9 58.0< | | | | | | | | | (2,0) |
| Indiana 78.0 73.5 73.2 76.2 4.9 -2.8 -7.7 4.10 lowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kansas 81.6 72.6 68.9 69.0 12.7 3.7 -9.1* 3.84 Kentucky 46.9 44.8 70.7 67.1 -23.8 -22.3 1.5 4.74 Louislana 62.4 49.8 71.9 75.4 -9.6 -25.6 -16.0* 5.86 Maine 71.4 65.9 69.0 71.0 2.4 -6.7 -19.0* 3.96 Massachusetts 83.6 69.0 71.3 75.6 12.4 -6.7 -19.0* 3.96 Mississippi 40.9 58.0 70.9 75.4 -30.0 -17.4 12.6* 5.67 Missouri 51.2 49.5 71.1 69.7 -19.9 -20.2 -0.3 4.93 Netraska 7 | | | | | | | | | (2,0) |
| Iowa 71.4 75.9 70.0 74.0 1.4 2.0 0.6 4.43 Kansas 81.6 72.6 68.9 69.0 12.7 3.7 -9.1* 3.84 Kentucky 46.9 44.8 70.7 67.1 -23.8 -22.3 1.5 4.74 Louisiana 62.4 49.8 71.9 75.4 -9.6 -25.6 -16.0* 5.86 Maine 71.4 65.9 69.0 71.0 2.4 -5.2 -7.6* 3.50 Maryland 78.8 69.1 70.2 71.6 8.6 -2.5 -11.1* 4.98 Massachusetts 83.6 69.0 71.3 75.6 12.4 -6.7 -19.0* 3.96 Michigan 51.1 56.1 67.7 69.8 -16.6 -13.7 2.9 5.10 Minnesota 78.7 82.8 70.6 71.6 8.0 11.2 3.2 3.25 Mississippi 40.9 | | | | | | | | | (3,0) |
| Kansas81.672.668.969.012.73.7-9.1*3.84Kentucky46.944.870.767.1-23.8-22.31.54.74Louisiana62.449.871.975.4-9.6-25.6-16.0*5.86Maine71.465.969.071.02.4-5.2-7.6*3.50Maryland78.869.170.271.68.6-2.5-11.1*4.98Massachusetts83.669.071.375.612.4-6.7-19.0*3.96Michigan51.156.167.769.8-16.6-13.72.95.10Minnesota78.782.870.671.68.011.23.23.25Mississippi40.958.070.975.4-30.0-17.412.6*5.67Missouri51.249.571.169.7-19.9-20.2-0.34.93Montana68.666.671.571.1-2.9-4.5-1.63.73Nebraska76.077.277.173.1-1.14.15.23.05New dargence84.087.774.576.59.511.21.72.63New dargence86.178.571.475.114.73.3-11.4*4.09New dargence86.178.571.475.59.511.21.72.63New dargence86.178.571.4 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>(2,0)</td></t<> | | | | | | | | | (2,0) |
| Kentucky 46.9 44.8 70.7 67.1 -23.8 -22.3 1.5 4.74 Louisiana 62.4 49.8 71.9 75.4 -9.6 -25.6 -16.0* 5.86 Maine 71.4 65.9 69.0 71.0 2.4 -5.2 -7.6* 3.50 Maryland 78.8 69.1 70.2 71.6 8.6 -2.5 -11.1* 4.98 Massachusetts 83.6 69.0 71.3 75.6 12.4 -6.7 -19.0* 3.96 Michigan 51.1 56.1 67.7 69.8 -16.6 -13.7 2.9 5.10 Minesota 78.7 82.8 70.6 71.6 8.0 11.2 3.2 3.25 Missouri 51.2 49.5 71.1 69.7 -19.9 -20.2 -0.3 49.3 Montana 68.6 66.6 71.5 71.1 72.9 12.2 1.8 -10.4* 3.57 New Hampshire 84.0 87.7 74.5 76.5 9.5 11.2 1.7 | | | | | | | | | (4,-1) |
| Louisiana 62.4 49.8 71.9 75.4 -9.6 -25.6 -16.0* 5.86 Maine 71.4 65.9 69.0 71.0 2.4 -5.2 -7.6* 3.50 Maryland 78.8 69.1 70.2 71.6 8.6 -25.5 -11.1* 4.98 Massachusetts 83.6 69.0 71.3 75.6 12.4 -6.7 -19.0* 3.96 Michigan 51.1 56.1 67.7 69.8 -16.6 -13.7 2.9 5.10 Minnesota 78.7 82.8 70.6 71.4 -30.0 -17.4 12.6* 5.67 Missouri 51.2 49.5 71.1 69.7 -19.9 -20.2 -0.3 4.93 Montana 68.6 66.6 71.5 71.1 -2.9 -4.5 -1.6 3.73 Nevada 84.1 74.7 71.9 72.9 12.2 1.8 -10.4* 3.57 New Hampshire | | | | | | | | | (1,0) |
| Maine71.465.969.071.02.4-5.2-7.6*3.50Maryland78.869.170.271.68.6-2.5-11.1*4.98Massachusetts83.669.071.375.612.4-6.7-19.0*3.96Michigan51.156.167.769.8-16.6-13.72.95.10Minnesota78.782.870.671.68.011.23.23.25Missispipi40.958.070.975.4-30.0-17.412.6*5.67Missouri51.249.571.169.7-19.9-20.2-0.34.93Montana68.666.671.571.1-2.9-4.5-1.63.73Netraska76.077.277.173.1-1.14.15.23.05Nevada84.174.771.972.912.21.8-10.4*3.57New Hampshire84.087.774.576.59.511.21.72.63New Vork66.365.272.972.5-6.6-7.2-0.64.80North Carolina63.080.969.872.7-6.88.215.0*3.76Ohio56.150.860.362.6-4.2-17.8-13.6*6.76Oklahoma75.474.268.768.96.85.3-1.54.63Oregon76.577.471.269.6 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>(1,-1)</td></td<> | | | | | | | | | (1,-1) |
| Maryland 78.8 69.1 70.2 71.6 8.6 -2.5 -11.1* 4.98 Massachusetts 83.6 69.0 71.3 75.6 12.4 -6.7 -19.0* 3.96 Michigan 51.1 56.1 67.7 69.8 -16.6 -13.7 2.9 5.10 Minnesota 78.7 82.8 70.6 71.6 8.0 11.2 3.2 3.25 Mississippi 40.9 58.0 70.9 75.4 -30.0 -17.4 12.6* 5.67 Missouri 51.2 49.5 71.1 69.7 -19.9 -20.2 -0.3 4.93 Montana 68.6 66.6 71.5 71.1 -2.9 -4.5 -1.6 3.73 Nebraska 76.0 77.2 77.1 73.1 -1.1 4.1 5.2 3.05 Newada 84.1 74.7 71.9 72.9 12.2 1.8 -10.4* 3.57 New Hampshire | | | | | | | | | (1,-1) |
| Massachusetts 83.6 69.0 71.3 75.6 12.4 -6.7 -19.0* 3.96 Michigan 51.1 56.1 67.7 69.8 -16.6 -13.7 2.9 5.10 Minnesota 78.7 82.8 70.6 71.6 8.0 11.2 3.2 3.25 Mississippi 40.9 58.0 70.9 75.4 -30.0 -17.4 12.6* 5.67 Missouri 51.2 49.5 71.1 69.7 -19.9 -20.2 -0.3 4.93 Montana 68.6 66.6 71.5 71.1 -2.9 -4.5 -1.6 3.73 Nebraska 76.0 77.2 77.1 73.1 -1.1 4.1 5.2 3.05 Newada 84.1 74.7 71.9 72.9 12.2 1.8 -10.4* 3.57 New Hampshire 84.0 87.7 74.5 76.5 9.5 11.2 1.7 2.63 New Wexico 77.7 68.7 69.2 72.5 -6.6 -7.2 -0.6 4.80 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | |
| Michigan 51.1 56.1 67.7 69.8 -16.6 -13.7 2.9 5.10 Minnesota 78.7 82.8 70.6 71.6 8.0 11.2 3.2 3.25 Mississippi 40.9 58.0 70.9 75.4 -30.0 -17.4 12.6* 5.67 Missouri 51.2 49.5 71.1 69.7 -19.9 -20.2 -0.3 4.93 Montana 68.6 66.6 71.5 71.1 -2.9 -4.5 -1.6 3.73 Netraska 76.0 77.2 77.1 73.1 -1.1 4.1 5.2 3.05 New Jacka 84.1 74.7 71.9 72.9 12.2 1.8 -10.4* 3.57 New Hampshire 84.0 87.7 74.5 76.5 9.5 11.2 1.7 2.63 New Jersey 86.1 78.7 69.2 73.5 8.5 -4.8 -13.3* 4.04 New York | • | | | | | | | | (3,-1) |
| Minesota 78.7 82.8 70.6 71.6 8.0 11.2 3.2 3.25 Mississippi 40.9 58.0 70.9 75.4 -30.0 -17.4 12.6* 5.67 Missouri 51.2 49.5 71.1 69.7 -19.9 -20.2 -0.3 4.93 Montana 68.6 66.6 71.5 71.1 -2.9 -4.5 -1.6 3.73 Nebraska 76.0 77.2 77.1 73.1 -1.1 4.1 5.2 3.05 Nevada 84.1 74.7 71.9 72.9 12.2 1.8 -10.4* 3.57 New Hampshire 84.0 87.7 74.5 76.5 9.5 11.2 1.7 2.63 New Mexico 77.7 68.7 69.2 73.5 8.5 -4.8 -13.3* 4.04 New York 66.3 65.2 72.9 72.5 -6.6 -7.2 -0.6 4.80 North Carolina | | | | | | | | | (4,-1) |
| Mississippi40.958.070.975.4-30.0-17.412.6*5.67Missouri51.249.571.169.7-19.9-20.2-0.34.93Montana68.666.671.571.1-2.9-4.5-1.63.73Nebraska76.077.277.173.1-1.14.15.23.05Nevada84.174.771.972.912.21.8-10.4*3.57New Hampshire84.087.774.576.59.511.21.72.63New Jersey86.178.571.475.114.73.3-11.4*4.09New Mexico77.768.769.273.58.5-4.8-13.3*4.04New York66.365.272.972.5-6.6-7.2-0.64.80North Carolina63.080.969.872.7-6.88.215.0*3.76Ohio56.150.860.368.6-4.2-11.74.636.76Oregon76.577.471.269.65.37.72.43.19Pennsylvania85.679.369.171.516.57.8-8.7*4.09Rhode Island85.984.675.876.410.18.2-2.02.10South Carolina45.652.269.170.9-23.5-18.74.84.89South Dakota68.973.070.7 <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(1,0)</td> | • | | | | | | | | (1,0) |
| Missouri 51.2 49.5 71.1 69.7 -19.9 -20.2 -0.3 4.93 Montana 68.6 66.6 71.5 71.1 -2.9 -4.5 -1.6 3.73 Nebraska 76.0 77.2 77.1 73.1 -1.1 4.1 5.2 3.05 Nevada 84.1 74.7 71.9 72.9 12.2 1.8 -10.4 * 3.57 New Hampshire 84.0 87.7 74.5 76.5 9.5 11.2 1.7 2.63 New Jersey 86.1 78.5 71.4 75.1 14.7 3.3 -11.4 * 4.09 New Mexico 77.7 68.7 69.2 73.5 8.5 -4.8 -13.3 * 4.04 New York 66.3 65.2 72.9 72.5 -6.6 -7.2 -0.6 4.80 North Carolina 63.0 80.9 69.8 72.7 -6.8 8.2 15.0 * 3.76 North Dakota 71.3 55.9 73.6 72.6 -2.2 -16.7 -14.5 * 3.61 Ohio 56.1 50.8 60.3 68.6 -4.2 -17.8 -13.6 * 6.76 Oregon 76.5 77.4 71.2 69.6 5.3 7.7 2.4 3.19 Pennsylvania 85.6 79.3 69.1 71.5 16.5 7.8 -8.7 * 4.09 Rhode Island 85.9 84.6 75.8 76.4 10.1 8.2 -2 | | | | | | | | | (3,0) |
| Montana 68.6 66.6 71.5 71.1 -2.9 -4.5 -1.6 3.73 Nebraska 76.0 77.2 77.1 73.1 -1.1 4.1 5.2 3.05 Nevada 84.1 74.7 71.9 72.9 12.2 1.8 -10.4* 3.57 New Hampshire 84.0 87.7 74.5 76.5 9.5 11.2 1.7 2.63 New Jersey 86.1 78.5 71.4 75.1 14.7 3.3 -11.4* 4.09 New Mexico 77.7 68.7 69.2 73.5 8.5 -4.8 -13.3* 4.04 New York 66.3 65.2 72.9 72.5 -6.6 -7.2 -0.6 4.80 North Carolina 63.0 80.9 69.8 72.7 -6.8 8.2 15.0* 3.76 North Dakota 71.3 55.9 73.6 72.6 -2.2 -16.7 -14.5* 3.61 Ohio | | | - | | | | | | (1,1) |
| Nebraska 76.0 77.2 77.1 73.1 -1.1 4.1 5.2 3.05 Nevada 84.1 74.7 71.9 72.9 12.2 1.8 -10.4* 3.57 New Hampshire 84.0 87.7 74.5 76.5 9.5 11.2 1.7 2.63 New Jersey 86.1 78.5 71.4 75.1 14.7 3.3 -11.4* 4.09 New Mexico 77.7 68.7 69.2 73.5 8.5 -4.8 -13.3* 4.04 New York 66.3 65.2 72.9 72.5 -6.6 -7.2 -0.6 4.80 North Carolina 63.0 80.9 69.8 72.7 -6.8 8.2 15.0* 3.76 North Dakota 71.3 55.9 73.6 72.6 -2.2 -16.7 -14.5* 3.61 Ohio 56.1 50.8 60.3 68.6 -4.2 -17.8 -13.6* 6.76 Oregon | | | | | | | | | (1,0) |
| Nevada 84.1 74.7 71.9 72.9 12.2 1.8 -10.4* 3.57 New Hampshire 84.0 87.7 74.5 76.5 9.5 11.2 1.7 2.63 New Jersey 86.1 78.5 71.4 75.1 14.7 3.3 -11.4* 4.09 New Mexico 77.7 68.7 69.2 73.5 8.5 -4.8 -13.3* 4.04 New York 66.3 65.2 72.9 72.5 -6.6 -7.2 -0.6 4.80 North Carolina 63.0 80.9 69.8 72.7 -6.8 8.2 15.0* 3.76 North Dakota 71.3 55.9 73.6 72.6 -2.2 -16.7 -14.5* 3.61 Ohio 56.1 50.8 60.3 68.6 -4.2 -17.8 -13.6* 6.76 Oklahoma 75.4 74.2 68.7 68.9 6.8 5.3 -1.5 4.63 Oregon | | | | | | | | | (2,0) |
| New Hampshire 84.0 87.7 74.5 76.5 9.5 11.2 1.7 2.63 New Jersey 86.1 78.5 71.4 75.1 14.7 3.3 -11.4* 4.09 New Mexico 77.7 68.7 69.2 73.5 8.5 -4.8 -13.3* 4.04 New York 66.3 65.2 72.9 72.5 -6.6 -7.2 -0.6 4.80 North Carolina 63.0 80.9 69.8 72.7 -6.8 8.2 15.0* 3.76 North Dakota 71.3 55.9 73.6 72.6 -2.2 -16.7 -14.5* 3.61 Ohio 56.1 50.8 60.3 68.6 -4.2 -17.8 -13.6* 6.76 Oklahoma 75.4 74.2 68.7 68.9 6.8 5.3 -1.5 4.63 Oregon 76.5 77.4 71.2 69.6 5.3 7.7 2.4 3.19 Pennsylvania | | | | | | | | | (2,0) |
| New Jersey 86.1 78.5 71.4 75.1 14.7 3.3 -11.4* 4.09 New Mexico 77.7 68.7 69.2 73.5 8.5 -4.8 -13.3* 4.04 New York 66.3 65.2 72.9 72.5 -6.6 -7.2 -0.6 4.80 North Carolina 63.0 80.9 69.8 72.7 -6.8 8.2 15.0* 3.76 North Dakota 71.3 55.9 73.6 72.6 -2.2 -16.7 -14.5* 3.61 Ohio 56.1 50.8 60.3 68.6 -4.2 -17.8 -13.6* 6.76 Oklahoma 75.4 74.2 68.7 68.9 6.8 5.3 -1.5 4.63 Oregon 76.5 77.4 71.2 69.6 5.3 7.7 2.4 3.19 Pennsylvania 85.6 79.3 69.1 71.5 16.5 7.8 -8.7* 4.09 Rhode Island | | | | | | | | | (4,-1) |
| New Mexico 77.7 68.7 69.2 73.5 8.5 -4.8 -13.3* 4.04 New York 66.3 65.2 72.9 72.5 -6.6 -7.2 -0.6 4.80 North Carolina 63.0 80.9 69.8 72.7 -6.8 8.2 15.0* 3.76 North Dakota 71.3 55.9 73.6 72.6 -2.2 -16.7 -14.5* 3.61 Ohio 56.1 50.8 60.3 68.6 -4.2 -17.8 -13.6* 6.76 Oklahoma 75.4 74.2 68.7 68.9 6.8 5.3 -1.5 4.63 Oregon 76.5 77.4 71.2 69.6 5.3 7.7 2.4 3.19 Pennsylvania 85.6 79.3 69.1 71.5 16.5 7.8 -8.7* 4.09 Rhode Island 85.9 84.6 75.8 76.4 10.1 8.2 -2.0 2.10 South Carolina | | | | | | | | | (3,0) |
| New York 66.3 65.2 72.9 72.5 -6.6 -7.2 -0.6 4.80 North Carolina 63.0 80.9 69.8 72.7 -6.8 8.2 15.0* 3.76 North Dakota 71.3 55.9 73.6 72.6 -2.2 -16.7 -14.5* 3.61 Ohio 56.1 50.8 60.3 68.6 -4.2 -17.8 -13.6* 6.76 Oklahoma 75.4 74.2 68.7 68.9 6.8 5.3 -1.5 4.63 Oregon 76.5 77.4 71.2 69.6 5.3 7.7 2.4 3.19 Pennsylvania 85.6 79.3 69.1 71.5 16.5 7.8 -8.7* 4.09 Rhode Island 85.9 84.6 75.8 76.4 10.1 8.2 -2.0 2.10 South Carolina 45.6 52.2 69.1 70.9 -23.5 -18.7 4.8 4.89 South Dakota <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(4,–1)</td> | , | | | | | | | | (4,–1) |
| North Carolina 63.0 80.9 69.8 72.7 -6.8 8.2 15.0* 3.76 North Dakota 71.3 55.9 73.6 72.6 -2.2 -16.7 -14.5* 3.61 Ohio 56.1 50.8 60.3 68.6 -4.2 -17.8 -13.6* 6.76 Oklahoma 75.4 74.2 68.7 68.9 6.8 5.3 -1.5 4.63 Oregon 76.5 77.4 71.2 69.6 5.3 7.7 2.4 3.19 Pennsylvania 85.6 79.3 69.1 71.5 16.5 7.8 -8.7* 4.09 Rhode Island 85.9 84.6 75.8 76.4 10.1 8.2 -2.0 2.10 South Carolina 45.6 52.2 69.1 70.9 -23.5 -18.7 4.8 4.89 South Dakota 68.9 73.0 70.7 68.0 -1.7 5.0 6.8 3.68 | | | | | | | | | (3,–1) |
| North Dakota 71.3 55.9 73.6 72.6 -2.2 -16.7 -14.5* 3.61 Ohio 56.1 50.8 60.3 68.6 -4.2 -17.8 -13.6* 6.76 Oklahoma 75.4 74.2 68.7 68.9 6.8 5.3 -1.5 4.63 Oregon 76.5 77.4 71.2 69.6 5.3 7.7 2.4 3.19 Pennsylvania 85.6 79.3 69.1 71.5 16.5 7.8 -8.7* 4.09 Rhode Island 85.9 84.6 75.8 76.4 10.1 8.2 -2.0 2.10 South Carolina 45.6 52.2 69.1 70.9 -23.5 -18.7 4.8 4.89 South Dakota 68.9 73.0 70.7 68.0 -1.7 5.0 6.8 3.68 | | | | | | | | | (1,0) |
| Ohio 56.1 50.8 60.3 68.6 -4.2 -17.8 -13.6* 6.76 Oklahoma 75.4 74.2 68.7 68.9 6.8 5.3 -1.5 4.63 Oregon 76.5 77.4 71.2 69.6 5.3 7.7 2.4 3.19 Pennsylvania 85.6 79.3 69.1 71.5 16.5 7.8 -8.7* 4.09 Rhode Island 85.9 84.6 75.8 76.4 10.1 8.2 -2.0 2.10 South Carolina 45.6 52.2 69.1 70.9 -23.5 -18.7 4.8 4.89 South Dakota 68.9 73.0 70.7 68.0 -1.7 5.0 6.8 3.68 | | | | | | | | | (1,1) |
| Oklahoma 75.4 74.2 68.7 68.9 6.8 5.3 -1.5 4.63 Oregon 76.5 77.4 71.2 69.6 5.3 7.7 2.4 3.19 Pennsylvania 85.6 79.3 69.1 71.5 16.5 7.8 -8.7* 4.09 Rhode Island 85.9 84.6 75.8 76.4 10.1 8.2 -2.0 2.10 South Carolina 45.6 52.2 69.1 70.9 -23.5 -18.7 4.8 4.89 South Dakota 68.9 73.0 70.7 68.0 -1.7 5.0 6.8 3.68 | orth Dakota | | | | | | | | (2,-1) |
| Oregon 76.5 77.4 71.2 69.6 5.3 7.7 2.4 3.19 Pennsylvania 85.6 79.3 69.1 71.5 16.5 7.8 -8.7* 4.09 Rhode Island 85.9 84.6 75.8 76.4 10.1 8.2 -2.0 2.10 South Carolina 45.6 52.2 69.1 70.9 -23.5 -18.7 4.8 4.89 South Dakota 68.9 73.0 70.7 68.0 -1.7 5.0 6.8 3.68 | io | | | | | | | | (2,–1) |
| Pensylvania 85.6 79.3 69.1 71.5 16.5 7.8 -8.7* 4.09 Rhode Island 85.9 84.6 75.8 76.4 10.1 8.2 -2.0 2.10 South Carolina 45.6 52.2 69.1 70.9 -23.5 -18.7 4.8 4.89 South Dakota 68.9 73.0 70.7 68.0 -1.7 5.0 6.8 3.68 | lahoma | | | | | | | | (3,0) |
| Rhode Island 85.9 84.6 75.8 76.4 10.1 8.2 -2.0 2.10 South Carolina 45.6 52.2 69.1 70.9 -23.5 -18.7 4.8 4.89 South Dakota 68.9 73.0 70.7 68.0 -1.7 5.0 6.8 3.68 | egon | 76.5 77 | 4 71.2 | 69.6 | 5.3 | 7.7 | 2.4 | 3.19 | (3,0) |
| South Carolina 45.6 52.2 69.1 70.9 -23.5 -18.7 4.8 4.89 South Dakota 68.9 73.0 70.7 68.0 -1.7 5.0 6.8 3.68 | nnsylvania | 85.6 79 | 3 69.1 | 71.5 | 16.5 | 7.8 | | 4.09 | (4,–1) |
| South Dakota 68.9 73.0 70.7 68.0 -1.7 5.0 6.8 3.68 | iode Island | | | 76.4 | 10.1 | 8.2 | -2.0 | 2.10 | (4,0) |
| | uth Carolina | 45.6 52 | 2 69.1 | 70.9 | -23.5 | -18.7 | 4.8 | 4.89 | (1,0) |
| Tennessee 81.5 43.4 71.5 64.9 10.1 -21.5 -31.5* 4.48 | uth Dakota | 68.9 73 | 0 70.7 | 68.0 | -1.7 | 5.0 | 6.8 | 3.68 | (2,0) |
| | nnessee | 81.5 43 | 4 71.5 | 64.9 | 10.1 | -21.5 | -31.5 * | 4.48 | (4,-1) |
| Texas 57.6 63.1 71.3 74.9 -13.7 -11.7 2.0 3.98 | xas | 57.6 63 | 1 71.3 | 74.9 | -13.7 | -11.7 | 2.0 | 3.98 | (1,0) |
| Utah 79.8 72.1 70.9 71.0 8.9 1.1 -7.8* 3.86 | ah | 79.8 72 | 1 70.9 | 71.0 | 8.9 | 1.1 | -7.8 * | 3.86 | (3,-1) |
| Vermont 75.9 77.5 69.3 72.0 6.6 5.4 -1.2 2.71 | ermont | 75.9 77 | 5 69.3 | 72.0 | 6.6 | 5.4 | -1.2 | 2.71 | (3,0) |
| Virginia 47.2 54.9 69.6 73.7 -22.4 -18.8 3.7 4.35 | | | | | | | | | (1,0) |
| Washington 79.6 72.5 68.1 67.3 11.5 5.2 -6.3 4.13 | | | | | | | | | (4,0) |
| Vest Virginia 48.5 62.7 69.5 70.6 -21.1 -7.9 13.2* 5.24 | • | | | | | | | | (1,1) |
| Wisconsin 69.5 68.3 66.0 69.2 3.5 -0.9 -4.5 4.73 | 0 | | | | | | | | (2,0) |
| Wyoming 85.4 81.6 73.2 73.8 12.2 7.8 -4.4 2.69 | | | | | | | | | (4,0) |
| Tryoning 00.7 01.0 For 10.0 TELE 1.0 -7.7 2.00 | , criming | 00.4 01 | , , | , 0.0 | 12.2 | 7.5 | 7.9 | 2.00 | (1,0) |

Table B-4. Percentages of students with disabilities in NAEP grade 8 reading assessments, estimated using nation-based approach: By state, 2003 and 2005

* Significantly different from zero (p < .05).

¹ The 2003 *difference from predicted* is also the *starting point* measure.

² The composite index (q,s) is the quartile of the starting point, q (from 1, the lowest, to 4, the highest), and statistical significance of the *change* score, s, where s is -1 if the change is negative and statistically significant, 1 if positive and statistically significant, and 0 if changes are not statistically different from zero (p < .05).

| | Starting point measu | re—2003 | 2003–05 cha | ange | Composite |
|-----------------------|----------------------|-----------|--------------|-----------|----------------|
| State | Estimated | Std error | Change | Std error | index |
| Alabama | 7.7 * | 2.14 | 2.3 | 3.12 | (4,0) |
| Alaska | 9.5 * | 1.86 | 0.7 | 1.72 | (4,0) |
| Arizona | -9.4 * | 2.74 | 4.2 | 3.99 | (1,0) |
| Arkansas | 12.7 * | 1.81 | -3.2 | 2.87 | (4,0) |
| California | -1.4 | 2.54 | -2.2 | 3.13 | (2,0) |
| Colorado | 4.8 * | 1.91 | 4.0 | 2.77 | (3,0) |
| Connecticut | -6.9 * | 3.04 | 5.8 * | 2.79 | (1,1) |
| Delaware | –19.7 * | 1.95 | -7.3* | 2.91 | (1,-1) |
| District of Columbia | -0.1 | 2.19 | -7.7 * | 2.83 | (2,-1) |
| Florida | 8.4 * | 1.70 | -4.6* | 2.33 | (4,-1) |
| Georgia | 4.5 * | 1.70 | -0.3 | 4.53 | (3,0) |
| Hawaii | 4.2 | 2.56 | 0.9 | 4.69 | (3,0) |
| Idaho | 11.3 * | 1.37 | 4.9* | 2.02 | (4,1) |
| Illinois | 1.4 | 2.58 | 0.7 | 3.19 | (2,0) |
| Indiana | 1.8 | 2.36 | 1.6 | 2.73 | (2,0) |
| lowa | 2.7 | 2.12 | 0.8 | 2.24 | (3,0) |
| Kansas | 7.3 * | 1.66 | -7.3 * | 3.61 | (4,-1) |
| Kentucky | 2.5 | 2.74 | 2.8 | 4.02 | (3,0) |
| Louisiana | 2.6 | 4.13 | -3.0 | 4.33 | (3,0) |
| Maine | 1.6 | 2.11 | 1.4 | 2.94 | (0,0) |
| Maryland | -3.1 | 2.99 | 0.1 | 3.70 | (1,0) |
| Massachusetts | -3.1 7.1 * | 1.51 | -6.5 * | 2.63 | |
| | -13.5 * | 3.14 | -0.5 3.1 | 3.50 | (4,-1) |
| Michigan Minnesota | -13.5 0.8 | 1.62 | 0.2 | 5.35 | (1,0) (2,0) |
| Mississippi | -33.3 * | 3.27 | 0.2 17.9* | 3.52 | |
| Missouri | | 2.33 | 9.6* | 3.45 | (1,1) |
| Montana | -4.5 3.4 | 2.33 | | | (1,1) |
| | | | 6.1 | 8.46 | (3,0) |
| Nebraska | 2.1 | 1.80 | -2.4 | 2.52 | (2,0) |
| Nevada | -0.5 | 3.14 | -1.3 | 4.24 | (2,0) |
| New Hampshire | 3.0 | 2.17 | 6.3* | 2.79 | (3,1) |
| New Jersey | 6.0 | 3.28 | -0.7 | 4.19 | (4,0) |
| New Mexico | 9.9 * | 2.19 | 3.4 | 4.97 | (4,0) |
| New York | -2.3 | 3.62 | 4.8 | 4.46 | (1,0) |
| North Carolina | -0.7 | 2.04 | 5.8 | 3.38 | (2,0) |
| North Dakota | 5.0 * | 1.36 | -5.7* | 2.58 | (4,-1) |
| Ohio | -8.9 * | 4.30 | 0.8 | 4.86 | (1,0) |
| Oklahoma | 1.3 | 2.21 | -1.2 | 3.21 | (2,0) |
| Oregon | -0.7 | 2.14 | -1.3 | 3.30 | (2,0) |
| Pennsylvania | 3.5 | 2.56 | -2.2 | 3.84 | (3,0) |
| Rhode Island | 8.7 * | 1.26 | -6.8* | 2.29 | (4,-1) |
| South Carolina | –19.3 * | 2.47 | 4.2 | 3.26 | (1,0) |
| South Dakota | 5.8 * | 1.33 | -1.3 | 1.56 | (4,0) |
| Tennessee | 4.3 | 2.77 | -5.9 | 4.17 | (3,0) |
| Texas | -26.8 * | 2.90 | 2.3 | 3.22 | (1,0) |
| Utah | 2.4 | 2.39 | 2.4 | 2.90 | (3,0) |
| Vermont | -0.1 | 1.68 | 9.1 * | 2.96 | (2,1) |
| Virginia | -15.8 * | 3.09 | 0.9 | 3.85 | (1,0) |
| Washington | 3.8 | 2.15 | 2.8 | 3.79 | (3,0) |
| West Virginia | -0.7 | 2.51 | 5.1 | 3.28 | (2,0) |
| Wisconsin | 2.1 | 2.03 | -1.1 | 3.39 | (3,0) |
| Wyoming | 7.6 * | 1.05 | 11.6* | 2.38 | (4,1) |

Table B-5. Starting point and change measures for percentages of students with
disabilities in NAEP grade 4 mathematics assessments from state-specific
approach: By state, 2003 and 2005

* Significantly different from zero (p < .05).

¹ The composite index (q,s) is the quartile of the starting point, q (from 1, the lowest, to 4, the highest), and statistical significance of the *change* score, s, where s is -1 if the change is negative and statistically significant, 1 if positive and statistically significant, and 0 if changes are not statistically different from zero (p < .05).

| | Starting point measure | -2003 | 2003–05 cha | ange | Composite |
|----------------------|------------------------|-----------|----------------|--------------|--------------------|
| State | Estimated | Std error | Change | Std error | index ¹ |
| Alabama | 8.1 * | 2.46 | 8.6* | 3.41 | (4,1) |
| Alaska | 11.2 * | 1.14 | -8.2 * | 3.83 | (4,-1) |
| Arizona | -2.1 | 3.00 | -10.7 | 5.69 | (2,0) |
| Arkansas | 13.2 * | 1.68 | -9.9 * | 2.78 | (4,-1) |
| California | 8.0 * | 1.66 | -3.2 | 2.68 | (4,0) |
| Colorado | 8.4 * | 1.79 | -7.0 * | 3.14 | (4,-1) |
| Connecticut | -5.1 * | 1.80 | 6.9* | 2.77 | (2,1) |
| Delaware | -28.4 * | 2.76 | -15.2* | 3.38 | (1,-1) |
| District of Columbia | -5.7 * | 1.98 | 4.5 | 4.31 | (2,0) |
| Florida | 7.8 * | 1.59 | -2.5 | 2.69 | (4,0) |
| Georgia | 5.4 * | 2.17 | -6.9* | 2.89 | (3,-1) |
| Hawaii | 2.7 | 1.83 | -0.5 | 2.44 | (2,0) |
| Idaho | 12.4 * | 1.64 | -3.0 | 5.90 | (4,0) |
| Illinois | -2.3 | 2.47 | 3.6 | 3.61 | (2,0) |
| Indiana | 2.3 | 2.21 | -5.5 | 4.03 | (2,0) |
| Iowa | 3.4 | 1.79 | -0.5 | 2.84 | (3,0) |
| Kansas | 3.5 | 1.88 | -5.9 | 3.41 | (3,0) |
| Kentucky | -8.6 * | 3.93 | 1.2 | 4.79 | (1,0) |
| Louisiana | -7.0 * | 3.44 | -0.9 | 6.25 | (1,0) |
| Maine | -2.5 | 2.48 | -1.2 | 3.55 | (2,0) |
| Maryland | -6.1 | 4.18 | -7.5 | 5.67 | (1,0) |
| Massachusetts | 5.6 * | 2.58 | -16.4* | 4.60 | (3,-1) |
| Michigan | -11.4 * | 3.16 | 0.7 | 4.71 | (1,0) |
| Minnesota | 3.5 | 2.07 | 4.3 | 2.70 | (3,0) |
| Mississippi | -34.9 * | 3.85 | 7.8* | 3.74 | (1,1) |
| Missouri | -6.6 * | 2.86 | -1.8 | 4.34 | (1,0) |
| Montana | 5.5 * | 1.90 | -2.1 | 2.63 | (3,0) |
| Nebraska | -3.8 | 2.01 | 12.4* | 2.82 | (2,1) |
| Nevada | 3.6 | 1.87 | -2.8 | 3.02 | (3,0) |
| New Hampshire | -0.3 | 2.11 | 7.1 | 3.71 | (2,0) |
| New Jersey | 11.1 * | 1.58 | -12.4* | 2.96 | (4,-1) |
| New Mexico | 10.9 * | 1.71 | -3.2 | 3.14 | (4,0) |
| New York | -6.7 * | 3.20 | 6.2 | 4.27 | (1,0) |
| North Carolina | 0.7 | 2.55 | 2.0 | 2.81 | (2,0) |
| North Dakota | 9.5 * | 1.62 | -16.0* | 2.99 | (4,-1) |
| Ohio | | 4.78 | -2.6 | 6.49 | (1,0) |
| Oklahoma | 4.4 * | 2.02 | -7.7* | 3.28 | (3,-1) |
| Oregon | 3.6 | 1.96 | 4.5 | 3.18 | (3,0) |
| Pennsylvania | 8.7 * | 2.05 | -8.4 * | 3.57 | (4,-1) |
| Rhode Island | 4.0 * | 1.38 | 0.3 | 2.46 | (3,0) |
| South Carolina | -25.6 * | 3.33 | 1.8 | 4.40 | (1,0) |
| South Dakota | 5.2 * | 1.66 | -0.7 | 2.41 | (3,0) |
| Tennessee | 3.3 | 2.19 | _0.7 _14.2* | 3.90 | (3,-1) |
| Texas | -20.9 * | 4.10 | -14.2 | 4.29 | (1,0) |
| Utah | -0.3 | 2.54 | 4.0 | 3.50 | (1,0) |
| Vermont | 3.3 | 1.76 | 1.2 | 3.29 | (2,0) |
| Virginia | 3.3 –19.1 * | 2.80 | 4.4 | 3.29 4.42 | |
| Washington | -19.1 8.1 * | 2.80 | 4.4 -2.0 | 4.42 3.45 | (1,0) (4,0) |
| West Virginia | 8.1 1.4 | 2.52 | -2.0 -0.4 | 3.45 | (4,0) |
| Wisconsin | 6.1 * | 2.32 | -0.4 -2.9 | 3.08 | (2,0) |
| Wyoming | 13.1 * | 0.97 | -2.9 -2.9 | 3.59 | (3,0) |
| vvyoning | 13.1 | 0.97 | -2.9 | 3.09 | (4,0) |

Table B-6. Starting point and change measures for percentages of students with
disabilities in NAEP grade 8 mathematics assessments from state-specific
approach: By state, 2003 and 2005

* Significantly different from zero (p < .05).

¹ The composite index (q,s) is the quartile of the starting point, q (from 1, the lowest, to 4, the highest), and statistical significance of the *change* score, s, where s is -1 if the change is negative and statistically significant, 1 if positive and statistically significant, and 0 if changes are not statistically different from zero (p < .05).

| | Starting point measure | e-2003 | 2003–05 ch | ange | Composite |
|----------------------|-----------------------------|-----------|--------------|-----------|--------------------|
| State | Estimated | Std error | Change | Std error | index ¹ |
| Alabama | 19.7 * | 2.70 | 2.6 | 3.61 | (4,0) |
| Alaska | 16.5 * | 2.15 | -4.1 | 3.04 | (4,0) |
| Arizona | -10.2 * | 4.41 | 6.6 | 6.11 | (1,0) |
| Arkansas | 0.1 | 3.69 | -11.4 * | 4.88 | (2,-1) |
| California | 2.7 | 3.50 | -1.7 | 4.05 | (3,0) |
| Colorado | 16.5 * | 1.62 | -5.4 | 2.90 | (4,0) |
| Connecticut | 1.8 | 2.53 | 8.6* | 3.99 | (3,1) |
| Delaware | -33.3 * | 1.93 | -7.3 * | 3.04 | (1,-1) |
| District of Columbia | 0.2 | 2.40 | -3.8 | 4.16 | (2,0) |
| Florida | 14.6 * | 2.33 | -9.4 * | 3.69 | (4,-1) |
| Georgia | 7.5 * | 2.37 | -18.2* | 4.06 | (3,-1) |
| Hawaii | 10.4 * | 2.61 | 7.0 | 3.99 | (4,0) |
| Idaho | 12.4 * | 3.10 | -6.2 | 4.98 | (4,0) |
| Illinois | 3.3 | 3.58 | -6.1 | 5.16 | (3,0) |
| Indiana | 1.9 | 3.54 | -1.4 | 4.48 | (3,0) |
| lowa | -6.0 | 4.17 | 6.3 | 4.78 | (2,0) |
| Kansas | 16.8 * | 1.83 | -4.7 | 3.57 | (4,0) |
| Kentucky | -24.2 * | 2.95 | -0.5 | 4.14 | (1,0) |
| Louisiana | -2.4 | 3.54 | -30.4 * | 5.02 | (2,-1) |
| Maine | -1.4 | 2.56 | 0.5 | 3.24 | (2,0) |
| Maryland | -1. 4 -12.5 * | 2.97 | 2.8 | 3.95 | (2,0) (1,0) |
| Massachusetts | 14.5 * | 2.29 | -18.4 * | 3.67 | (1,0) |
| | -19.7 * | | 2.1 | 6.39 | |
| Michigan | | 3.88 | 4.1 | | (1,0) |
| Minnesota | 12.0 * –29.6 * | 2.13 | 4.1 14.9* | 3.02 | (4,0) |
| Mississippi | | 3.22 | | 4.32 | (1,1) |
| Missouri | -14.8 * | 3.08 | -0.1 | 4.28 | (1,0) |
| Montana | -0.5 | 3.36 | -5.0 | 5.19 | (2,0) |
| Nebraska | 3.7 | 2.53 | -7.4 | 4.16 | (3,0) |
| Nevada | 1.2 | 3.50 | -7.5 | 4.70 | (2,0) |
| New Hampshire | 10.6 * | 2.77 | 4.3 | 6.21 | (4,0) |
| New Jersey | 7.2 | 4.51 | -1.8 | 5.58 | (3,0) |
| New Mexico | 9.2 * | 2.93 | -13.2* | 4.77 | (3,-1) |
| New York | -8.3 * | 3.43 | 14.6* | 4.44 | (1,1) |
| North Carolina | -2.3 | 3.29 | 14.2* | 3.71 | (2,1) |
| North Dakota | 1.2 | 2.66 | -9.2* | 4.61 | (2,-1) |
| Ohio | -7.4 | 4.44 | -16.9* | 4.92 | (2,-1) |
| Oklahoma | 4.3 | 3.21 | -1.4 | 3.96 | (3,0) |
| Oregon | -3.9 | 2.81 | -0.1 | 3.66 | (2,0) |
| Pennsylvania | 12.5 * | 3.03 | -1.0 | 5.45 | (4,0) |
| Rhode Island | 14.7 * | 2.11 | -1.2 | 2.79 | (4,0) |
| South Carolina | –15.7 * | 2.22 | -1.9 | 3.28 | (1,0) |
| South Dakota | 0.7 | 2.26 | -4.2 | 2.92 | (2,0) |
| Tennessee | 3.5 | 3.05 | -31.4* | 6.19 | (3,-1) |
| Texas | -18.9 * | 3.68 | -1.6 | 4.40 | (1,0) |
| Utah | 9.6 * | 2.09 | -8.4 * | 3.31 | (3,-1) |
| Vermont | -0.5 | 2.42 | 6.4 | 3.26 | (2,0) |
| Virginia | -24.8 * | 3.40 | -14.2* | 4.22 | (1,-1) |
| Washington | 5.1 | 3.27 | 7.5 | 4.47 | (3,0) |
| West Virginia | -28.0 * | 3.01 | 15.1 * | 4.19 | (1,1) |
| Wisconsin | 4.8 | 2.86 | 2.8 | 5.58 | (3,0) |
| Wyoming | 20.8 * | 1.73 | 1.1 | 1.77 | (4,0) |

Table B-7. Starting point and change measures for percentages of students with
disabilities in NAEP grade 4 reading assessments from state-specific
approach: By state, 2003 and 2005

* Significantly different from zero (p < .05).

¹ The composite index (q,s) is the quartile of the starting point, q (from 1, the lowest, to 4, the highest), and statistical significance of the *change* score, s, where s is -1 if the change is negative and statistically significant, 1 if positive and statistically significant, and 0 if changes are not statistically different from zero (p < .05).

| | Starting point measure | e-2003 | 2003–05 ch | ange | Composite |
|----------------------|------------------------|--------------|-----------------|--------------|--------------------|
| State | Estimated | Std error | Change | Std error | index ¹ |
| Alabama | 9.8 * | 2.85 | 5.5 | 3.65 | (4,0) |
| Alaska | 14.2 * | 1.90 | 2.3 | 2.04 | (4,0) |
| Arizona | -2.8 | 3.99 | 9.6 * | 4.54 | (2,1) |
| Arkansas | 6.3 | 3.32 | -11.1 * | 5.02 | (3,-1) |
| California | 6.1 | 3.82 | 4.1 | 4.67 | (3,0) |
| Colorado | 14.1 * | 2.70 | -0.5 | 4.58 | (4,0) |
| Connecticut | 3.1 | 1.99 | 6.2* | 3.08 | (2,1) |
| Delaware | -19.4 * | 2.08 | -15.0 * | 3.59 | (1,-1) |
| District of Columbia | -3.7 | 2.22 | 0.4 | 3.63 | (2,0) |
| Florida | 6.3 * | 3.19 | 1.8 | 3.77 | (3,0) |
| Georgia | 9.7 * | 3.46 | -16.0 * | 5.01 | (4,-1) |
| Hawaii | 5.6 * | 1.66 | 3.9 | 2.70 | (3,0) |
| Idaho | 3.8 | 2.83 | 7.8 * | 3.73 | (3,1) |
| Illinois | 3.7 | 2.49 | -2.7 | 4.44 | (2,0) |
| Indiana | 3.6 | 2.98 | -2.1 | 4.50 | (2,0) |
| lowa | 0.3 | 3.37 | 2.7 | 4.15 | (2,0) |
| Kansas | 11.6 * | 2.05 | -6.1 | 4.02 | (4,0) |
| Kentucky | -25.5 * | 3.41 | -0.4 | 4.56 | (1,0) |
| Louisiana | -11.0 * | 4.20 | _0.4 _14.7 * | 5.33 | (1,-1) |
| Maine | 1.2 | 2.15 | -4.5 | 3.91 | (1,-1) (2,0) |
| | 7.7 * | 3.45 | -12.7 * | 4.74 | (2,0) |
| Maryland | 11.2 * | 2.53 | -15.3 * | 3.89 | (3,-1) |
| Massachusetts | -17.9 * | 3.83 | -15.3 | | |
| Michigan | -17.9 6.9 * | 3.83 2.36 | 5.2 | 5.51 | (1,0) |
| Minnesota | | 2.30 | 5.2 12.6 * | 3.12 5.99 | (3,0) |
| Mississippi | -31.0 * | | | | (1,1) |
| Missouri | -21.2 * | 3.16 | 1.9 | 4.82 | (1,0) |
| Montana | -4.0 | 2.41 | 1.3 | 3.97 | (2,0) |
| Nebraska | -2.4 | 2.05 | 9.1 * | 3.27 | (2,1) |
| Nevada | 11.1 * | 2.37 | -8.7 * | 2.93 | (4,-1) |
| New Hampshire | 8.6 * | 2.03 | 5.1 * | 2.27 | (3,1) |
| New Jersey | 14.0 * | 2.58 | -8.0 * | 3.78 | (4,-1) |
| New Mexico | 7.8 * | 2.63 | -10.1 * | 3.28 | (3,-1) |
| New York | -7.7 * | 3.64 | 0.2 | 4.98 | (1,0) |
| North Carolina | -8.2 * | 2.77 | 15.6 * | 3.48 | (1,1) |
| North Dakota | -3.7 | 2.47 | -11.3 * | 4.24 | (2,–1) |
| Ohio | -6.0 | 5.27 | -5.7 | 5.87 | (2,0) |
| Oklahoma | 5.8 | 3.37 | -0.4 | 4.44 | (3,0) |
| Oregon | 4.3 | 2.34 | 4.8 | 3.49 | (3,0) |
| Pennsylvania | 15.5 * | 2.84 | -3.2 | 3.98 | (4,0) |
| Rhode Island | 9.3 * | 1.41 | -0.3 | 1.93 | (4,0) |
| South Carolina | –25.0 * | 3.04 | 2.1 | 4.68 | (1,0) |
| South Dakota | -2.8 | 2.63 | 6.3 | 4.36 | (2,0) |
| Tennessee | 9.2 * | 2.36 | -34.3 * | 4.68 | (4,-1) |
| Texas | -15.0 * | 3.27 | 2.9 | 3.33 | (1,0) |
| Utah | 8.1 * | 2.36 | -6.8 | 4.06 | (3,0) |
| Vermont | 5.5 * | 1.64 | 5.0 | 2.80 | (3,0) |
| Virginia | -24.1 * | 3.38 | 2.3 | 4.06 | (1,0) |
| Washington | 10.6 * | 2.92 | -6.4 | 4.43 | (4,0) |
| West Virginia | -22.6 * | 4.03 | 14.9* | 5.27 | (1,1) |
| Wisconsin | 2.1 | 3.12 | 0.6 | 5.03 | (2,0) |
| Wyoming | 11.3 * | 1.61 | -0.6 | 2.79 | (4,0) |

Table B-8. Starting point and change measures for percentages of students with
disabilities in NAEP grade 8 reading assessments from state-specific
approach: By state, 2003 and 2005

* Significantly different from zero (p < .05).

¹ The composite index (q,s) is the quartile of the starting point, q (from 1, the lowest, to 4, the highest), and statistical significance of the *change* score, s, where s is -1 if the change is negative and statistically significant, 1 if positive and statistically significant, and 0 if changes are not statistically different from zero (p < .05).

| 200 | J5 | | Gra | de 4 | | | | | Gra | de 8 | | |
|---------------------|--------------|----|-----|----------|------|--------------|----|----|-----|----------|------|---|
| - Starting - | Nation-based | | | ate-spec | ific | Nation-based | | | | ite-spec | ific | |
| Quartile | - | = | | - | = | | - | = | | - | = | |
| 4 more inclusive | 2 | 11 | 0 | 5 | 6 | 2 | 7 | 6 | 0 | 6 | 6 | 1 |
| 3 | 1 | 12 | 0 | 0 | 12 | 1 | 4 | 9 | 0 | 4 | 9 | 0 |
| 2 | 0 | 12 | 1 | 1 | 11 | 1 | 1 | 9 | 3 | 0 | 11 | 2 |
| 1 less inclusive | 0 | 7 | 5 | 1 | 8 | 3 | 1 | 10 | 1 | 1 | 10 | 1 |
| Overall | 3 | 42 | 6 | 7 | 37 | 7 | 13 | 34 | 4 | 11 | 36 | 4 |

Table B-9. Number of states in each composite index score category by estimationapproach based on NAEP grades 4 and 8 mathematics assessments: 2003 and2005

• Measure of change is positive and statistically significant indicating higher inclusion rates (p < .05).

= Measure of change is not statistically significant (p < .05).

• Measure of change is negative and statistically significant indicating lower inclusion rates (p < .05). SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP) 2003 and 2005 Mathematics Assessments.

Table B-10.Number of states in each composite index score category by estimation
approach based on NAEP grades 4 and 8 reading assessments: 2003 and
2005

| _ | | | Gra | de 4 | | | | | Gra | de 8 | | |
|---------------------|----|----------|-----|----------------|----|---|----|-------------------------|-----|------|----|------|
| Starting - | Na | tion-bas | sed | State-specific | | | Na | Nation-based State-spec | | | | ific |
| Quartile | • | = | | • | = | | - | = | | - | = | |
| 4 more inclusive | 3 | 10 | 0 | 2 | 11 | 0 | 7 | 6 | 0 | 5 | 8 | 0 |
| 3 | 3 | 9 | 1 | 4 | 8 | 1 | 3 | 10 | 0 | 3 | 8 | 2 |
| 2 | 4 | 7 | 2 | 4 | 8 | 1 | 3 | 10 | 0 | 1 | 9 | 3 |
| 1 less inclusive | 1 | 8 | 3 | 2 | 7 | 3 | 2 | 7 | 3 | 2 | 7 | 3 |
| Overall | 11 | 34 | 6 | 12 | 34 | 5 | 15 | 33 | 3 | 11 | 32 | 8 |

• Measure of change is positive and statistically significant indicating higher inclusion rates (p < .05).

= Measure of change is not statistically significant (p < .05).

- Measure of change is negative and statistically significant indicating lower inclusion rates (p < .05).

APPENDIX C. RECENTERING MEASURES

State-level predicted inclusion rates and *distance above the predicted inclusion rate* measures are essentially based on average inclusion rates across the country.¹ Hence, under the procedures described in the methodology section, half the states will have positive *starting point* measures and half will have negative *starting point* measures. This applies to both the nation-based and state-specific approaches. Rather than report predicted inclusion rates and measures centered on the average, we explored for this report recentering all *distance above the predicted* measures and corresponding state-level predicted inclusion rates for presentation. Recentering involves adding a constant to all state-level predicted inclusion rates, and this corresponds to subtracting the same constant from all *distance above the predicted* measures. The motivation was a concern that predicted inclusion rates and *distance above the predicted* might be misinterpreted as normative and readers might interpret the results to say that states that are very inclusive should reduce their inclusion rates. Recentering would put almost all states below the predicted rate by increasing the predicted rate by a fixed amount for all states.

Recentering procedures were later abandoned because it was deemed to be an unnecessary precaution that not only confused readers but also detracted from the focus of the paper, which is the change analysis. The recentering had no effect on the change measure but was simply a means to provide an alternative presentation of the starting point measures. In this appendix we report on exploratory analysis on recentering results for presentation.

The constant that was chosen to use for recentering was the average of the five largest *distance above the predicted* measures in the initial period.² This average is used as an empirical reference point for rescaling state-level predicted inclusion rates and *distance above the predicted* measures. Although we focus on the average of the five largest *distance above the predicted* measures, it is possible to use a different constant to add to the predicted measures, it is possible to use a different constant to add to the predicted measures. Discussion below of the recentering method is based on using the 5 largest measures, but tables in this appendix present results for the 1 largest and 10 largest criteria as well.

The first step in recentering is to find the average of the 5 largest *distance above the predicted* measures:

$$Top5^{0} = \frac{1}{5} \cdot \left(\sum_{s \in \{5 \text{ Maximum } DistAbovePredicted}\}} DistAbovePredicted_{s}^{0} \right)$$

Next, this constant is simply added to each state-level benchmark to recenter them.

 $RecenteredPredicted_s^0 = StateLevelPredicted_s^0 + Top5^0$ $RecenteredPredicted_s^1 = StateLevelPredicted_s^1 + Top5^0$

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¹ The logistic regression using all observations from all states estimates the relationship between SD characteristics and the probability of inclusion. The resulting predicted probability for each combination of student characteristics is the student-type benchmark and equals the average probability of inclusion for students with those characteristics across the country. State-level benchmarks are aggregations of these averages weighted by the distribution of SD characteristics in the state.

² Instead of the 5 largest scores, we could have instead used the top (1) largest score or the top 10 largest scores or some other similar variant of this.

Because the state-level predicted inclusion rates have been raised, the *distance above the predicted* measures corresponding to these new predictions are lowered by that same constant.

Through substitution, we confirm that the recentered *distance above the predicted* inclusion rate is simply the *distance above the predicted* minus the average of the five largest initial-period states *distance above the predicted* measures.

It is important to reiterate that this recentering does not change the relative position of states in the *starting point* measure. We have simply subtracted a constant from all the *distance above the predicted* measures; hence, the percentage-point difference between and ranking of states will be unaffected. Similarly, the change measure is <u>not</u> affected in any way by the recentering: it is the same whether we use *distance above the predicted* or *recentered distance above the predicted* measures. This is confirmed by the equations below, which show that the change measure in the nation-based approach is equivalent using the unadjusted or recentered *distance above the benchmark* measures.

RecenteredDistance¹_s - RecenteredDistance⁰_s = $(DistAbovePredicted^{1}_{s} - Top5^{0}) - (DistAbovePredicted^{0}_{s} - Top5^{0})$ = $(DistAbovePredicted^{1}_{s} - DistAbovePredicted^{0}_{s}) - (Top5^{0} - Top5^{0})$ = $DistAbovePredicted^{1}_{s} - DistAbovePredicted^{0}_{s}$

| | Unadjus | sted | Top 1 | | Top 5 | 5 | Top 1 | 0 |
|----------------------|---------|------|-------|--------------|--------------|--------------|--------------|--------------|
| State | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 |
| Alabama | 79.7 | 83.0 | 91.4 | 94.7 | 89.3 | 92.6 | 88.2 | 91.5 |
| Alaska | 84.1 | 81.5 | 95.8 | 93.2 | 93.7 | 91.1 | 92.6 | 90.0 |
| Arizona | 82.7 | 82.0 | 94.4 | 93.7 | 92.4 | 91.6 | 91.2 | 90.5 |
| Arkansas | 78.1 | 77.8 | 89.7 | 89.5 | 87.7 | 87.4 | 86.5 | 86.3 |
| California | 83.6 | 83.1 | 95.3 | 94.8 | 93.2 | 92.8 | 92.1 | 91.6 |
| Colorado | 79.2 | 79.9 | 90.9 | 91.5 | 88.9 | 89.5 | 87.7 | 88.3 |
| Connecticut | 86.0 | 82.5 | 97.6 | 94.2 | 95.6 | 92.1 | 94.4 | 91.0 |
| Delaware | 80.1 | 78.2 | 91.8 | 89.9 | 89.8 | 87.8 | 88.6 | 86.7 |
| District of Columbia | 71.7 | 75.1 | 83.3 | 86.8 | 81.3 | 84.7 | 80.1 | 83.6 |
| Florida | 83.9 | 85.3 | 95.6 | 97.0 | 93.6 | 94.9 | 92.4 | 93.8 |
| Georgia | 84.1 | 83.5 | 95.8 | 95.2 | 93.7 | 93.1 | 92.6 | 92.0 |
| Hawaii | 79.5 | 81.0 | 91.2 | 92.6 | 89.2 | 90.6 | 88.0 | 89.4 |
| Idaho | 80.5 | 80.7 | 92.2 | 92.3 | 90.2 | 90.3 | 89.0 | 89.1 |
| Illinois | 81.9 | 83.1 | 93.5 | 94.8 | 91.5 | 92.8 | 90.3 | 91.6 |
| Indiana | 86.1 | 85.1 | 97.8 | 96.7 | 95.8 | 94.7 | 94.6 | 93.5 |
| lowa | 85.0 | 82.9 | 96.7 | 94.6 | 94.7 | 92.6 | 93.5 | 91.4 |
| Kansas | 80.3 | 79.1 | 92.0 | 90.8 | 89.9 | 88.8 | 88.8 | 87.6 |
| Kentucky | 80.4 | 83.6 | 92.1 | 95.3 | 90.1 | 93.2 | 88.9 | 92.1 |
| Louisiana | 84.7 | 84.1 | 96.4 | 95.8 | 94.3 | 93.7 | 93.2 | 92.6 |
| Maine | 81.0 | 81.2 | 92.7 | 92.9 | 90.6 | 90.8 | 89.5 | 89.7 |
| Maryland | 81.7 | 81.3 | 93.4 | 93.0 | 91.4 | 90.9 | 90.2 | 89.8 |
| Massachusetts | 83.9 | 80.7 | 95.6 | 93.0 92.4 | 91.4 93.5 | 90.9 90.3 | 90.2 92.4 | 89.8 89.2 |
| Michigan | 78.4 | | | 92.4 92.9 | | | | 89.2 89.7 |
| - | | 81.2 | 90.1 | | 88.0 | 90.8 | 86.9 | |
| Minnesota | 82.4 | 80.9 | 94.1 | 92.6 | 92.0 | 90.5 | 90.9 | 89.4 |
| Mississippi | 87.1 | 87.4 | 98.8 | 99.1 | 96.7 | 97.1 | 95.6 | 95.9 |
| Missouri | 82.7 | 81.4 | 94.4 | 93.1 | 92.4 | 91.0 | 91.2 | 89.9 |
| Montana | 80.6 | 77.3 | 92.3 | 89.0 | 90.3 | 86.9 | 89.1 | 85.8 |
| Nebraska | 85.1 | 85.2 | 96.8 | 96.9 | 94.8 | 94.9 | 93.6 | 93.7 |
| Nevada | 83.3 | 82.3 | 95.0 | 94.0 | 93.0 | 92.0 | 91.8 | 90.8 |
| New Hampshire | 82.0 | 82.3 | 93.7 | 94.0 | 91.6 | 92.0 | 90.5 | 90.8 |
| New Jersey | 83.9 | 82.5 | 95.6 | 94.2 | 93.6 | 92.1 | 92.4 | 91.0 |
| New Mexico | 81.9 | 80.2 | 93.6 | 91.9 | 91.6 | 89.9 | 90.4 | 88.7 |
| New York | 83.2 | 85.2 | 94.9 | 96.9 | 92.8 | 94.8 | 91.7 | 93.7 |
| North Carolina | 83.7 | 84.6 | 95.4 | 96.2 | 93.3 | 94.2 | 92.2 | 93.0 |
| North Dakota | 84.9 | 81.9 | 96.6 | 93.6 | 94.5 | 91.6 | 93.4 | 90.4 |
| Ohio | 78.9 | 77.3 | 90.6 | 89.0 | 88.6 | 87.0 | 87.4 | 85.8 |
| Oklahoma | 78.5 | 79.9 | 90.2 | 91.6 | 88.1 | 89.6 | 87.0 | 88.4 |
| Oregon | 80.0 | 80.3 | 91.7 | 92.0 | 89.6 | 89.9 | 88.5 | 88.8 |
| Pennsylvania | 80.5 | 81.5 | 92.2 | 93.2 | 90.2 | 91.1 | 89.0 | 89.9 |
| Rhode Island | 84.6 | 84.0 | 96.3 | 95.7 | 94.3 | 93.6 | 93.1 | 92.5 |
| South Carolina | 83.4 | 85.7 | 95.1 | 97.4 | 93.0 | 95.3 | 91.9 | 94.2 |
| South Dakota | 86.1 | 85.2 | 97.8 | 96.9 | 95.7 | 94.9 | 94.6 | 93.7 |
| Tennessee | 73.3 | 73.3 | 85.0 | 85.0 | 82.9 | 82.9 | 81.8 | 81.8 |
| Texas | 82.5 | 82.8 | 94.1 | 94.4 | 92.1 | 92.4 | 90.9 | 91.2 |
| Utah | 81.8 | 82.0 | 93.5 | 93.7 | 91.4 | 91.7 | 90.3 | 90.5 |
| Vermont | 79.1 | 78.2 | 90.8 | 89.9 | 88.7 | 87.8 | 87.6 | 86.7 |
| Virginia | 82.4 | 82.8 | 94.1 | 94.4 | 92.0 | 92.4 | 90.9 | 91.2 |
| Washington | 78.1 | 80.5 | 89.8 | 92.2 | 87.7 | 90.1 | 86.6 | 89.0 |
| West Virginia | 84.3 | 87.4 | 96.0 | 99.1 | 94.0 | 97.0 | 92.8 | 95.9 |
| Wisconsin | 81.3 | 82.7 | 93.0 | 94.4 | 91.0 | 92.4 | 89.8 | 91.2 |
| Wyoming | 83.2 | 81.1 | 94.9 | 92.8 | 92.9 | 90.7 | 91.7 | 89.6 |

Table C-1.Benchmark percentages of students with disabilities in NAEP grade 4
mathematics assessments, estimated using nation-based approach and
recentered to the top 1, 5, and 10 states: By state, 2005 and 2007

| | Unadjus | ted | Top 1 | | Top 5 | | Top 10 |) |
|----------------------|---------|------|--------------|--------------|-------|--------------|--------|--------------|
| State | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 |
| Alabama | 78.9 | 76.7 | 92.3 | 90.1 | 89.6 | 87.3 | 88.6 | 86.3 |
| Alaska | 78.0 | 72.3 | 91.4 | 85.7 | 88.7 | 83.0 | 87.7 | 82.0 |
| Arizona | 77.5 | 78.2 | 90.9 | 91.7 | 88.2 | 88.9 | 87.2 | 87.9 |
| Arkansas | 74.0 | 76.1 | 87.4 | 89.5 | 84.6 | 86.8 | 83.6 | 85.8 |
| California | 78.6 | 81.4 | 92.0 | 94.8 | 89.3 | 92.1 | 88.3 | 91.1 |
| Colorado | 77.6 | 77.6 | 91.0 | 91.0 | 88.3 | 88.3 | 87.3 | 87.3 |
| Connecticut | 80.9 | 81.3 | 94.3 | 94.7 | 91.6 | 91.9 | 90.6 | 90.9 |
| Delaware | 71.2 | 72.2 | 84.7 | 85.6 | 81.9 | 82.9 | 80.9 | 81.9 |
| District of Columbia | 70.5 | 69.9 | 83.9 | 83.3 | 81.1 | 80.6 | 80.1 | 79.6 |
| Florida | 78.6 | 80.8 | 92.0 | 94.2 | 89.2 | 91.5 | 88.2 | 90.5 |
| Georgia | 79.5 | 79.6 | 92.9 | 93.0 | 90.2 | 90.3 | 89.2 | 89.3 |
| Hawaii | 79.2 | 79.5 | 92.6 | 92.9 | 89.9 | 90.2 | 88.9 | 89.2 |
| Idaho | 76.2 | 76.8 | 89.6 | 90.2 | 86.9 | 87.5 | 85.9 | 86.5 |
| Illinois | 76.7 | 74.3 | 90.1 | 87.7 | 87.4 | 85.0 | 86.4 | 84.0 |
| Indiana | 77.3 | 77.5 | 90.7 | 90.9 | 88.0 | 88.2 | 87.0 | 87.2 |
| lowa | 76.7 | 80.6 | 90.1 | 94.1 | 87.4 | 91.3 | 86.4 | 90.3 |
| Kansas | 73.4 | 72.1 | 86.8 | 85.5 | 84.0 | 82.8 | 83.0 | 81.8 |
| Kentucky | 76.0 | 72.7 | 89.4 | 86.1 | 86.7 | 83.4 | 85.7 | 82.4 |
| Louisiana | 75.1 | 74.9 | 88.5 | 88.3 | 85.8 | 85.6 | 84.8 | 84.6 |
| Maine | 73.7 | 77.0 | 87.1 | 90.4 | 84.4 | 87.7 | 83.4 | 86.7 |
| Maryland | 74.1 | 73.2 | 87.5 | 86.6 | 84.8 | 83.9 | 83.8 | 82.8 |
| Massachusetts | 76.3 | 73.2 | 89.7 | 86.6 | 87.0 | 83.9 | 86.0 | 82.9 |
| Michigan | 75.3 | 74.1 | 88.7 | 87.5 | 86.0 | 84.8 | 85.0 | 83.8 |
| Minnesota | 76.4 | 76.3 | 89.8 | 89.7 | 87.1 | 87.0 | 86.1 | 86.0 |
| Mississippi | 80.8 | 83.0 | 94.2 | 96.4 | 91.5 | 93.6 | 90.5 | 92.6 |
| Missouri | 73.0 | 73.2 | 86.4 | 86.6 | 83.7 | 83.9 | 82.7 | 82.9 |
| Montana | 73.0 | 74.8 | 91.2 | 88.2 | 88.4 | 85.5 | 87.4 | 84.5 |
| Nebraska | 81.3 | 81.9 | 91.2 | 95.3 | 92.0 | 92.6 | 91.0 | 91.6 |
| Nevada | 80.6 | 76.9 | 94.7 94.1 | 95.3 90.3 | | 92.0 87.6 | | 91.0 86.6 |
| | | | | | 91.3 | | 90.3 | |
| New Hampshire | 78.4 | 80.0 | 91.8 | 93.4 | 89.0 | 90.6 | 88.0 | 89.6 |
| New Jersey | 79.5 | 78.5 | 92.9 | 91.9 | 90.2 | 89.2 | 89.2 | 88.2 |
| New Mexico | 78.2 | 76.3 | 91.6 | 89.7 | 88.9 | 87.0 | 87.9 | 86.0 |
| New York | 79.9 | 80.9 | 93.3 | 94.4 | 90.6 | 91.6 | 89.6 | 90.6 |
| North Carolina | 79.5 | 82.8 | 92.9 | 96.2 | 90.2 | 93.5 | 89.2 | 92.5 |
| North Dakota | 75.2 | 75.3 | 88.6 | 88.7 | 85.9 | 85.9 | 84.9 | 84.9 |
| Ohio | 70.8 | 67.6 | 84.3 | 81.0 | 81.5 | 78.2 | 80.5 | 77.2 |
| Oklahoma | 73.4 | 73.7 | 86.8 | 87.1 | 84.1 | 84.4 | 83.1 | 83.4 |
| Oregon | 73.6 | 76.4 | 87.1 | 89.8 | 84.3 | 87.1 | 83.3 | 86.1 |
| Pennsylvania | 75.9 | 78.0 | 89.3 | 91.4 | 86.6 | 88.7 | 85.6 | 87.7 |
| Rhode Island | 81.0 | 82.4 | 94.4 | 95.8 | 91.7 | 93.1 | 90.7 | 92.1 |
| South Carolina | 78.8 | 79.6 | 92.2 | 93.0 | 89.5 | 90.3 | 88.5 | 89.3 |
| South Dakota | 75.7 | 75.4 | 89.1 | 88.8 | 86.4 | 86.1 | 85.3 | 85.1 |
| Tennessee | 71.3 | 71.0 | 84.7 | 84.4 | 82.0 | 81.7 | 81.0 | 80.7 |
| Texas | 78.3 | 78.6 | 91.8 | 92.0 | 89.0 | 89.3 | 88.0 | 88.3 |
| Utah | 74.2 | 74.6 | 87.6 | 88.0 | 84.9 | 85.3 | 83.9 | 84.3 |
| Vermont | 75.8 | 74.3 | 89.2 | 87.7 | 86.5 | 85.0 | 85.5 | 84.0 |
| Virginia | 79.5 | 78.5 | 92.9 | 91.9 | 90.2 | 89.1 | 89.2 | 88.1 |
| Washington | 74.3 | 74.0 | 87.7 | 87.4 | 85.0 | 84.7 | 84.0 | 83.7 |
| West Virginia | 80.0 | 83.0 | 93.4 | 96.4 | 90.7 | 93.6 | 89.7 | 92.6 |
| Wisconsin | 72.1 | 74.2 | 85.5 | 87.6 | 82.8 | 84.9 | 81.8 | 83.9 |
| Wyoming | 78.8 | 79.4 | 92.2 | 92.8 | 89.5 | 90.0 | 88.5 | 89.0 |

Table C-2.Benchmark percentages of students with disabilities in NAEP grade 8
mathematics assessments, estimated using nation-based approach and
recentered to the top 1, 5, and 10 states: By state, 2005 and 2007

| | Unadjus | | Тор 1 | | Top 5 | | Top 10 | |
|----------------------|---------|------|---------------|------|-------|------|--------|------|
| State | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 |
| Alabama | 65.3 | 71.6 | 88.0 | 94.2 | 84.1 | 90.4 | 81.9 | 88.1 |
| Alaska | 66.3 | 69.2 | 89.0 | 91.8 | 85.1 | 88.0 | 82.8 | 85.7 |
| Arizona | 66.2 | 70.7 | 88.8 | 93.4 | 85.0 | 89.5 | 82.7 | 87.2 |
| Arkansas | 60.0 | 67.2 | 82.6 | 89.9 | 78.8 | 86.0 | 76.5 | 83.7 |
| California | 71.8 | 73.7 | 94.5 | 96.4 | 90.6 | 92.5 | 88.3 | 90.3 |
| Colorado | 64.0 | 69.3 | 86.7 | 92.0 | 82.8 | 88.1 | 80.5 | 85.8 |
| Connecticut | 69.4 | 72.8 | 92.1 | 95.5 | 88.2 | 91.6 | 85.9 | 89.4 |
| Delaware | 59.3 | 58.5 | 81.9 | 81.1 | 78.1 | 77.3 | 75.8 | 75.0 |
| District of Columbia | 54.1 | 57.2 | 76.8 | 79.9 | 72.9 | 76.0 | 70.7 | 73.8 |
| Florida | 71.2 | 75.7 | 93.8 | 98.3 | 90.0 | 94.5 | 87.7 | 92.2 |
| Georgia | 62.9 | 65.9 | 85.6 | 88.5 | 81.7 | 84.7 | 79.5 | 82.4 |
| Hawaii | 68.5 | 68.8 | 91.2 | 91.5 | 87.3 | 87.6 | 85.1 | 85.3 |
| Idaho | 64.1 | 69.5 | 86.7 | 92.2 | 82.9 | 88.3 | 80.6 | 86.1 |
| Illinois | 64.4 | 70.9 | 87.0 | 93.6 | 83.2 | 89.7 | 80.9 | 87.4 |
| Indiana | 67.6 | 72.6 | 90.3 | 95.3 | 86.4 | 91.4 | 84.2 | 89.2 |
| lowa | 60.2 | 65.9 | 82.8 | 88.5 | 79.0 | 84.7 | 76.7 | 82.4 |
| Kansas | 62.2 | 70.4 | 84.8 | 93.0 | 81.0 | 89.2 | 78.7 | 86.9 |
| Kentucky | 58.8 | 66.3 | 81.5 | 88.9 | 77.6 | 85.1 | 75.4 | 82.8 |
| Louisiana | 64.9 | 70.7 | 87.6 | 93.4 | 83.7 | 89.5 | 81.4 | 87.3 |
| Maine | 66.0 | 67.8 | 88.6 | 90.5 | 84.8 | 86.6 | 82.5 | 84.3 |
| Maryland | 67.3 | 66.4 | | 89.1 | | 85.2 | | 83.0 |
| Massachusetts | | | 89.9 80.7 | 90.2 | 86.1 | 86.3 | 83.8 | 84.1 |
| | 67.1 | 67.5 | 89.7 | | 85.9 | | 83.6 | |
| Michigan | 61.9 | 67.6 | 84.6 | 90.2 | 80.7 | 86.4 | 78.5 | 84.1 |
| Minnesota | 70.6 | 72.9 | 93.3 | 95.6 | 89.4 | 91.7 | 87.2 | 89.5 |
| Mississippi | 74.5 | 76.6 | 97.2 | 99.3 | 93.3 | 95.4 | 91.1 | 93.2 |
| Missouri | 63.2 | 73.2 | 85.8 | 95.9 | 82.0 | 92.0 | 79.7 | 89.8 |
| Montana | 59.0 | 63.6 | 81.6 | 86.3 | 77.8 | 82.4 | 75.5 | 80.2 |
| Nebraska | 70.5 | 72.1 | 93.2 | 94.8 | 89.3 | 91.0 | 87.0 | 88.7 |
| Nevada | 64.2 | 69.2 | 86.9 | 91.9 | 83.0 | 88.0 | 80.7 | 85.7 |
| New Hampshire | 68.4 | 72.7 | 91.1 | 95.4 | 87.2 | 91.6 | 85.0 | 89.3 |
| New Jersey | 64.7 | 66.8 | 87.4 | 89.5 | 83.6 | 85.6 | 81.3 | 83.4 |
| New Mexico | 64.2 | 69.5 | 86.8 | 92.1 | 83.0 | 88.3 | 80.7 | 86.0 |
| New York | 68.8 | 71.1 | 91.4 | 93.7 | 87.6 | 89.9 | 85.3 | 87.6 |
| North Carolina | 69.1 | 74.0 | 91.7 | 96.7 | 87.9 | 92.8 | 85.6 | 90.6 |
| North Dakota | 67.1 | 65.7 | 89.8 | 88.3 | 85.9 | 84.5 | 83.6 | 82.2 |
| Ohio | 54.4 | 61.1 | 77.1 | 83.7 | 73.2 | 79.9 | 70.9 | 77.6 |
| Oklahoma | 63.9 | 67.6 | 86.6 | 90.3 | 82.7 | 86.4 | 80.4 | 84.2 |
| Oregon | 67.0 | 69.2 | 89.7 | 91.9 | 85.8 | 88.0 | 83.6 | 85.7 |
| Pennsylvania | 63.5 | 68.9 | 86.2 | 91.6 | 82.3 | 87.8 | 80.1 | 85.5 |
| Rhode Island | 70.1 | 72.8 | 92.8 | 95.5 | 89.0 | 91.6 | 86.7 | 89.3 |
| South Carolina | 70.0 | 72.5 | 92.7 | 95.2 | 88.8 | 91.3 | 86.5 | 89.1 |
| South Dakota | 65.1 | 71.1 | 87.8 | 93.8 | 83.9 | 89.9 | 81.6 | 87.7 |
| Tennessee | 53.6 | 58.7 | 76.2 | 81.4 | 72.4 | 77.5 | 70.1 | 75.2 |
| Texas | 72.7 | 71.3 | 95.3 | 93.9 | 91.5 | 90.1 | 89.2 | 87.8 |
| Utah | 66.0 | 68.5 | 88.6 | 91.2 | 84.8 | 87.3 | 82.5 | 85.0 |
| Vermont | 59.7 | 64.3 | 82.4 | 87.0 | 78.5 | 83.1 | 76.3 | 80.8 |
| Virginia | 59.7 | 70.0 | 82.4 | 92.7 | 78.5 | 88.8 | 76.2 | 86.6 |
| Washington | 63.3 | 68.5 | 86.0 | 91.2 | 82.1 | 87.3 | 79.9 | 85.1 |
| West Virginia | 69.4 | 74.7 | 92.0 | 97.3 | 88.2 | 93.5 | 85.9 | 91.2 |
| Wisconsin | 61.5 | 70.1 | 84.1 | 92.8 | 80.3 | 88.9 | 78.0 | 86.7 |
| | 51.0 | | U 1. 1 | 02.0 | 00.0 | 00.0 | | 55.7 |

Table C-3.Benchmark percentages of students with disabilities in NAEP grade 4
reading assessments, estimated using nation-based approach and
recentered to the top 1, 5, and 10 states: By state, 2005 and 2007

| - | Unadjus | ted | Top 1 | <u> </u> | Top 5 | <u> </u> | Top 1 | 3 |
|----------------------|---------|------|--------------|----------|--------------|----------|--------------|---------------------|
| State | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 |
| Alabama | 72.7 | 74.0 | 88.0 | 89.3 | 86.1 | 87.5 | 84.6 | 85.9 |
| Alaska | 72.8 | 72.5 | 88.0 | 87.8 | 86.2 | 86.0 | 84.6 | 84.4 |
| Arizona | 67.9 | 73.3 | 83.1 | 88.6 | 81.3 | 86.8 | 79.7 | 85.2 |
| Arkansas | 60.8 | 71.8 | 76.0 | 87.1 | 74.2 | 85.3 | 72.6 | 83.7 |
| California | 71.5 | 77.1 | 86.7 | 92.4 | 84.9 | 90.6 | 83.3 | 89.0 |
| Colorado | 68.3 | 74.9 | 83.6 | 90.2 | 81.8 | 88.4 | 80.2 | 86.8 |
| Connecticut | 75.4 | 75.7 | 90.6 | 90.9 | 88.8 | 89.1 | 87.2 | 87.5 |
| Delaware | 62.0 | 64.4 | 77.3 | 79.7 | 75.4 | 77.9 | 73.8 | 76.3 |
| District of Columbia | 62.6 | 59.6 | 77.9 | 74.9 | 76.0 | 73.1 | 74.5 | 71.5 |
| Florida | 72.3 | 77.9 | 87.6 | 93.2 | 85.7 | 91.4 | 84.2 | 89.8 |
| Georgia | 69.2 | 69.7 | 84.4 | 85.0 | 82.6 | 83.2 | 81.0 | 81.6 |
| Hawaii | 72.8 | 74.2 | 88.0 | 89.4 | 86.2 | 87.6 | 84.6 | 86.0 |
| Idaho | 70.4 | 74.9 | 85.7 | 90.2 | 83.9 | 88.4 | 82.3 | 86.8 |
| Illinois | 66.9 | 70.3 | 82.2 | 85.6 | 80.3 | 83.8 | 78.7 | 82.2 |
| Indiana | 70.4 | 72.4 | 85.7 | 87.7 | 83.9 | 85.9 | 82.3 | 84.3 |
| lowa | 69.6 | 73.0 | 84.8 | 88.3 | 83.0 | 86.5 | 81.4 | 84.9 |
| Kansas | 64.3 | 73.0 | 79.6 | 86.9 | 77.7 | 85.1 | 76.1 | 83.5 |
| Kentucky | 60.7 | 63.5 | 76.0 | 78.8 | 74.2 | 77.0 | 72.6 | 75.4 |
| Louisiana | 67.0 | | 82.3 | 89.8 | | 88.0 | 72.0 | 86.4 |
| | | 74.5 | | | 80.5 | | | |
| Maine | 67.3 | 72.0 | 82.5 | 87.2 | 80.7 | 85.4 | 79.1 | 83.8 |
| Maryland | 66.2 | 67.2 | 81.5 | 82.5 | 79.7 | 80.6 | 78.1 | 79.0 |
| Massachusetts | 70.3 | 71.9 | 85.6 | 87.1 | 83.7 | 85.3 | 82.2 | 83.7 |
| Michigan | 65.7 | 71.3 | 81.0 | 86.5 | 79.2 | 84.7 | 77.6 | 83.1 |
| Minnesota | 71.0 | 73.4 | 86.3 | 88.6 | 84.5 | 86.8 | 82.9 | 85.2 |
| Mississippi | 74.1 | 75.9 | 89.4 | 91.2 | 87.6 | 89.4 | 86.0 | 87.8 |
| Missouri | 62.7 | 73.8 | 77.9 | 89.0 | 76.1 | 87.2 | 74.5 | 85.6 |
| Montana | 66.4 | 71.5 | 81.7 | 86.8 | 79.9 | 85.0 | 78.3 | 83.4 |
| Nebraska | 67.5 | 74.7 | 82.8 | 90.0 | 80.9 | 88.2 | 79.4 | 86.6 |
| Nevada | 71.6 | 70.6 | 86.9 | 85.9 | 85.0 | 84.1 | 83.4 | 82.5 |
| New Hampshire | 73.8 | 76.8 | 89.1 | 92.1 | 87.3 | 90.2 | 85.7 | 88.7 |
| New Jersey | 72.6 | 71.7 | 87.8 | 87.0 | 86.0 | 85.1 | 84.4 | 83.6 |
| New Mexico | 70.5 | 73.0 | 85.8 | 88.2 | 84.0 | 86.4 | 82.4 | 84.8 |
| New York | 69.4 | 74.8 | 84.6 | 90.1 | 82.8 | 88.2 | 81.2 | 86.6 |
| North Carolina | 71.1 | 76.9 | 86.4 | 92.2 | 84.6 | 90.4 | 83.0 | 88.8 |
| North Dakota | 65.5 | 68.2 | 80.8 | 83.4 | 78.9 | 81.6 | 77.3 | 80.0 |
| Ohio | 63.9 | 63.1 | 79.2 | 78.3 | 77.4 | 76.5 | 75.8 | 74.9 |
| Oklahoma | 65.9 | 71.2 | 81.1 | 86.4 | 79.3 | 84.6 | 77.7 | 83.0 |
| Oregon | 68.0 | 70.7 | 83.2 | 86.0 | 81.4 | 84.2 | 79.8 | 82.6 |
| Pennsylvania | 69.0 | 73.8 | 84.2 | 89.0 | 82.4 | 87.2 | 80.8 | 85.6 |
| Rhode Island | 74.0 | 78.3 | 89.2 | 93.5 | 87.4 | 91.7 | 85.8 | 90.1 |
| South Carolina | 68.7 | 72.2 | 83.9 | 87.5 | 82.1 | 85.6 | 80.5 | 84.0 |
| South Dakota | 62.7 | 70.3 | 78.0 | 85.5 | 76.2 | 83.7 | 74.6 | 82.1 |
| Tennessee | 60.1 | 62.8 | 75.4 | 78.1 | 73.6 | 76.3 | 72.0 | 74.7 |
| Texas | 73.7 | 72.8 | 89.0 | 88.0 | 87.2 | 86.2 | 85.6 | 84.6 |
| Utah | 67.6 | 67.6 | 89.0 82.9 | 82.9 | 87.2 81.1 | 81.1 | 85.0 79.5 | 84.0 79.5 |
| | | | | | | | ····· | ••••••••••••••••••• |
| Vermont | 69.3 | 73.9 | 84.5 | 89.2 | 82.7 | 87.4 | 81.1 | 85.8 |
| Virginia | 69.6 | 73.3 | 84.8 | 88.5 | 83.0 | 86.7 | 81.4 | 85.1 |
| Washington | 65.6 | 71.8 | 80.9 | 87.1 | 79.0 | 85.3 | 77.4 | 83.7 |
| West Virginia | 67.1 | 74.9 | 82.4 | 90.2 | 80.6 | 88.4 | 79.0 | 86.8 |
| Wisconsin | 63.6 | 66.4 | 78.9 | 81.7 | 77.1 | 79.9 | 75.5 | 78.3 |
| Wyoming | 71.3 | 68.9 | 86.6 | 84.2 | 84.8 | 82.4 | 83.2 | 80.8 |

Table C-4.Benchmark percentages of students with disabilities in NAEP grade 8
reading assessments, estimated using nation-based approach and
recentered to the top 1, 5, and 10 states: By state, 2005 and 2007

| | Unadjus | ted | Тор | 1 | Тор | 5 | Top 1 | 0 |
|----------------------|-------------|-------|---------------|---------------|---------------|--------------|---------------|---------------|
| State | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 |
| Alabama | 9.9 | 5.4 | -1.8 | -6.3 | 0.3 | -4.3 | 1.4 | -3.1 |
| Alaska | 9.7 | 9.8 | -2.0 | -1.8 | 0.0 | 0.2 | 1.2 | 1.4 |
| Arizona | -2.4 | 1.4 | -14.1 | -10.2 | -12.0 | -8.2 | -10.9 | -7.0 |
| Arkansas | 8.2 | 2.0 | -3.5 | -9.7 | -1.4 | -7.6 | -0.3 | -6.5 |
| California | -2.6 | 0.8 | -14.2 | -10.9 | -12.2 | -8.9 | -11.0 | -7.7 |
| Colorado | 4.5 | 8.3 | -7.2 | -3.3 | -5.1 | -1.3 | -4.0 | -0.1 |
| Connecticut | 1.9 | 7.2 | -9.8 | -4.5 | -7.7 | -2.5 | -6.6 | -1.3 |
| Delaware | -21.8 | -5.1 | -33.5 | -16.7 | -31.4 | -14.7 | -30.3 | -13.5 |
| District of Columbia | -3.9 | -8.8 | -15.6 | -20.5 | -13.6 | -18.4 | -12.4 | -17.3 |
| Florida | 4.6 | 3.0 | -7.1 | -8.7 | -5.0 | -6.6 | -3.9 | -5.5 |
| Georgia | 3.8 | 0.0 | -7.9 | -11.7 | -5.9 | -9.6 | -4.7 | -8.5 |
| Hawaii | 5.7 | 9.5 | -6.0 | -2.1 | -3.9 | -0.1 | -2.8 | 1.1 |
| Idaho | 11.7 | 5.7 | 0.0 | -6.0 | 2.0 | -4.0 | 3.2 | -2.8 |
| Illinois | 4.6 | -5.5 | -7.1 | -17.2 | -5.0 | -15.2 | -3.8 | -14.0 |
| Indiana | 4.0 5.6 | -5.5 | -6.1 | -17.2 | | -13.2 | -3.8 -2.9 | -14.0 -7.9 |
| | | 7.1 | | | | | ····· | |
| lowa | 3.3 5.5 | | -8.4 | -4.6 -11.9 | -6.4 | -2.6 | -5.2 | -1.4 |
| Kansas | | -0.2 | -6.2 | | -4.2 | -9.8 | -3.0 | -8.7 |
| Kentucky | 3.3 | 0.6 | -8.4 | -11.1 | -6.4 | -9.0 | -5.2 | -7.9 |
| Louisiana | -0.9 | 3.7 | -12.6 | -8.0 | -10.5 | -5.9 | -9.4 | -4.8 |
| Maine | 2.0 | 2.5 | -9.7 | -9.2 | -7.7 | -7.2 | -6.5 | -6.0 |
| Maryland | -2.3 | -8.6 | -14.0 | -20.3 | -12.0 | -18.2 | -10.8 | -17.1 |
| Massachusetts | 0.0 | -6.3 | -11.7 | -18.0 | -9.7 | -16.0 | -8.5 | -14.8 |
| Michigan | -3.8 | -5.1 | -15.5 | -16.8 | -13.4 | -14.7 | -12.3 | -13.6 |
| Minnesota | 4.0 | 5.0 | -7.7 | -6.7 | -5.7 | -4.6 | -4.5 | -3.5 |
| Mississippi | -6.6 | 4.9 | -18.3 | -6.8 | -16.3 | -4.8 | -15.1 | -3.6 |
| Missouri | 4.5 | -4.8 | -7.2 | -16.5 | -5.2 | -14.4 | -4.0 | -13.3 |
| Montana | 2.7 | 4.4 | -8.9 | -7.3 | -6.9 | -5.2 | -5.7 | -4.1 |
| Nebraska | 3.6 | 0.5 | -8.1 | -11.2 | -6.0 | -9.2 | -4.9 | -8.0 |
| Nevada | -2.6 | 2.1 | -14.3 | -9.5 | -12.2 | -7.5 | -11.1 | -6.3 |
| New Hampshire | 8.3 | 6.4 | -3.4 | -5.3 | -1.3 | -3.2 | -0.2 | -2.1 |
| New Jersey | 3.8 | 5.5 | -7.9 | -6.2 | -5.8 | -4.2 | -4.7 | -3.0 |
| New Mexico | 7.4 | 3.0 | -4.3 | -8.7 | -2.3 | -6.7 | -1.1 | -5.5 |
| New York | 0.5 | 6.0 | -11.2 | -5.7 | -9.1 | -3.7 | -8.0 | -2.5 |
| North Carolina | 3.8 | 5.1 | -7.9 | -6.6 | -5.8 | -4.5 | -4.7 | -3.4 |
| North Dakota | 0.6 | -5.6 | -11.1 | -17.3 | -9.0 | -15.3 | -7.9 | -14.1 |
| Ohio | -5.9 | -5.8 | -17.6 | -17.5 | -15.5 | -15.4 | -14.4 | -14.3 |
| Oklahoma | 0.3 | -12.1 | -11.4 | -23.8 | -9.3 | -21.8 | -8.2 | -20.6 |
| Oregon | -1.3 | 5.5 | -13.0 | -6.1 | -10.9 | -4.1 | -9.8 | -2.9 |
| Pennsylvania | 4.8 | 4.6 | -6.9 | -7.1 | -4.9 | -5.0 | -3.7 | -3.9 |
| Rhode Island | 3.3 | 7.0 | -8.4 | -4.7 | -6.4 | -2.7 | -5.2 | -1.5 |
| South Carolina | -9.6 | 2.4 | _21.3 | -9.2 | –19.3 | | -18.1 | -6.0 |
| South Dakota | -9.0 4.9 | 7.0 | -21.3 -6.8 | -9.2 -4.7 | -19.3 -4.7 | -7.2 -2.7 | -18.1 -3.6 | -0.0 -1.5 |
| Tennessee | 4.9 2.8 | | | -4.7 -25.6 | -4.7 -6.8 | -2.7 | -3.6 -5.7 | -1.5 -22.4 |
| | | -13.9 | -8.9 | | | | | |
| Texas | -17.3 | -19.9 | -29.0 | -31.6 | -26.9 | -29.6 | -25.8 | -28.4 |
| Utah | 6.8 | 2.4 | -4.9 | -9.3 | -2.8 | -7.3 | -1.7 | -6.1 |
| Vermont | 1.3 | 8.2 | -10.4 | -3.5 | -8.3 | -1.5 | -7.2 | -0.3 |
| Virginia | -10.8 | -8.7 | -22.5 | -20.4 | -20.5 | -18.3 | -19.3 | -17.2 |
| Washington | 7.3 | 5.3 | -4.4 | -6.4 | -2.4 | -4.4 | -1.2 | -3.2 |
| West Virginia | 4.1 | 4.2 | -7.5 | -7.5 | -5.5 | -5.4 | -4.3 | -4.3 |
| Wisconsin | 7.0 | 2.8 | -4.7 | -8.9 | -2.6 | -6.9 | -1.5 | -5.7 |
| Wyoming | 8.6 | 8.6 | -3.1 | -3.1 | -1.1 | -1.1 | 0.1 | 0.1 |

Table C-5.Distance above benchmark rate of students with disabilities in NAEP grade 4
mathematics assessments, estimated using nation-based approach and
recentered to the top 1, 5, and 10 states: By state, 2005 and 2007

| | Unadjusted | | Тор | Top 1 | | 5 | Top 10 | |
|-------------------------|--------------|-------------------------|----------------|----------------|---------------|----------------|---------------|---------------|
| State | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 |
| Alabama | 13.4 | 0.1 | 0.0 | -13.3 | 2.7 | -10.5 | 3.7 | -9.5 |
| Alaska | 6.2 | -9.2 | -7.2 | -22.6 | -4.5 | -19.9 | -3.5 | -18.9 |
| Arizona | -6.1 | -2.9 | -19.5 | -16.3 | -16.8 | -13.6 | -15.8 | -12.6 |
| Arkansas | 6.3 | 5.6 | -7.1 | -7.8 | -4.4 | -5.1 | -3.4 | -4.1 |
| California | 5.9 | 1.6 | -7.6 | -11.8 | -4.8 | -9.1 | -3.8 | -8.1 |
| Colorado | 6.3 | 9.6 | -7.1 | -3.8 | -4.4 | -1.1 | -3.4 | -0.1 |
| Connecticut | 2.9 | 9.4 | -10.5 | -4.0 | -7.8 | -1.2 | -6.8 | -0.2 |
| Delaware | -37.1 | -15.1 | -50.5 | -28.5 | -47.8 | -25.8 | -46.8 | -24.8 |
| District of Columbia | 0.7 | -24.2 | -12.7 | -37.6 | -9.9 | -34.9 | -8.9 | -33.9 |
| Florida | 7.0 | 2.7 | -6.4 | -10.7 | -3.7 | -8.0 | -2.7 | -7.0 |
| Georgia | 2.5 | -29.4 | -10.9 | -42.8 | -8.2 | -40.1 | -7.2 | -39.1 |
| Hawaii | 6.9 | 11.3 | -6.5 | -2.1 | -3.8 | 0.7 | -2.8 | 1.7 |
| Idaho | 10.1 | 9.7 | -3.4 | -3.7 | -0.6 | -1.0 | 0.4 | 0.1 |
| Illinois | 6.9 | -8.7 | -6.5 | -22.1 | -3.7 | -19.4 | -2.7 | -18.4 |
| Indiana | -0.8 | -13.7 | -14.2 | -27.1 | -11.5 | -24.4 | -10.5 | -23.4 |
| lowa | 7.1 | 3.6 | -6.3 | -9.8 | -3.6 | –7.1 | -2.6 | |
| Kansas | 3.3 | -2.6 | -10.1 | -16.0 | -7.4 | -13.3 | -6.4 | -12.3 |
| Kentucky | -3.3 | -21.1 | -16.7 | -34.5 | -13.9 | -31.8 | -12.9 | -30.8 |
| Louisiana | -4.4 | -0.8 | -17.8 | -14.2 | -15.1 | -11.5 | -14.1 | -10.5 |
| Maine | 1.4 | -5.1 | -12.0 | -18.5 | -9.2 | -15.8 | -8.2 | -14.7 |
| Maryland | -6.9 | -34.9 | -20.3 | -48.3 | -17.6 | -45.5 | -16.6 | -44.5 |
| Massachusetts | -0.9 -7.7 | -34.9 -23.8 | -20.3 -21.1 | -40.3 -37.2 | -17.0 | -45.5 -34.4 | -17.4 | -33.4 |
| Michigan | -5.9 | -23.0 | -19.3 | -18.3 | -16.6 | -15.6 | -17.4 | -14.6 |
| Minnesota | -5.9 9.1 | -4. 3 7.1 | -4.3 | -6.3 | -10.0 | -3.5 | -0.6 | -14.0 -2.5 |
| | -12.3 | -4.5 | -4.3 -25.7 | -17.9 | -22.9 | | -0.0 -21.9 | -14.2 |
| Mississippi Missouri | -12.5 | -4.5 | -13.9 | -21.2 | -22.9 | -18.5 | -10.2 | •••••• |
| Montana | -0.5 6.5 | -7.8 | -13.9 -7.0 | -21.2 | -11.2 -4.2 | -18.5 | -10.2 | –17.5 –7.2 |
| Nebraska | 9.8 | 2.5 1.0 | -7.0 -3.6 | -10.9 -12.4 | -4.2 -0.9 | -0.2 -9.6 | -3.2 | -7.2 |
| Nevada | | | | | | | | |
| | 1.7 | -3.1 | -11.7 | -16.5 | -9.0 | -13.8 | -8.0 | -12.8 |
| New Hampshire | 9.6 | 3.3 | -3.8 | -10.1 | -1.1 | -7.3 | -0.1 | -6.3 |
| New Jersey | 3.6 | 4.2 | -9.8 | -9.2 | -7.1 | -6.5 | -6.1 | -5.5 |
| New Mexico | 8.9 | 7.2 | -4.5 | -6.2 | -1.8 | -3.5 | -0.8 | -2.5 |
| New York | 1.3 | -1.7 | -12.1 | -15.1 | -9.3 | -12.4 | -8.3 | -11.3 |
| North Carolina | 6.3 | 3.9 | -7.1 | -9.5 | -4.4 | -6.8 | -3.4 | -5.8 |
| North Dakota | -1.2 | -17.1 | -14.6 | -30.6 | -11.8 | -27.8 | -10.8 | -26.8 |
| Ohio | -10.9 | -14.0 | -24.3 | -27.4 | -21.6 | -24.6 | -20.6 | -23.6 |
| Oklahoma | 3.1 | -28.8 | -10.3 | -42.2 | -7.6 | -39.5 | -6.6 | -38.5 |
| Oregon | 8.5 | 1.6 | -4.9 | -11.8 | -2.2 | -9.1 | -1.2 | -8.0 |
| Pennsylvania | 4.9 | -0.1 | -8.5 | -13.5 | -5.8 | -10.8 | -4.8 | -9.8 |
| Rhode Island | 4.1 | 5.6 | -9.3 | -7.8 | -6.6 | -5.1 | -5.6 | -4.1 |
| South Carolina | -19.5 | -19.4 | -32.9 | -32.8 | -30.2 | -30.1 | -29.2 | -29.1 |
| South Dakota | 7.2 | 2.9 | -6.2 | -10.5 | -3.5 | -7.8 | -2.5 | -6.8 |
| Tennessee | -2.6 | -24.0 | -16.0 | -37.4 | -13.3 | -34.7 | -12.3 | -33.7 |
| Texas | -17.3 | -20.1 | -30.7 | -33.5 | -28.0 | -30.8 | -27.0 | -29.8 |
| Utah | 8.2 | 2.5 | -5.2 | -10.9 | -2.5 | -8.2 | -1.5 | -7.1 |
| Vermont | 3.3 | 3.7 | -10.1 | -9.7 | -7.4 | -7.0 | -6.3 | -6.0 |
| Virginia | -8.6 | -19.6 | -22.0 | -33.0 | -19.2 | -30.3 | -18.2 | -29.3 |
| Washington | 8.7 | -0.9 | -4.7 | -14.3 | -2.0 | -11.6 | -1.0 | -10.6 |
| West Virginia | 3.0 | 5.9 | -10.4 | -7.5 | -7.7 | -4.8 | -6.7 | -3.8 |
| Wisconsin | 6.6 | -0.5 | -6.8 | -14.0 | -4.1 | -11.2 | -3.1 | -10.2 |
| Wyoming | 10.6 | 5.3 | -2.8 | -8.1 | -0.1 | -5.3 | 0.9 | -4.3 |

Table C-6.Distance above benchmark rate of students with disabilities in NAEP grade 8
mathematics assessments, estimated using nation-based approach and
recentered to the top 1, 5, and 10 states: By state, 2005 and 2007

| | Unadjusted | | Top 1 | | Тор | 5 | Top 10 | |
|----------------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| State | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 |
| Alabama | 20.0 | 6.6 | -2.6 | -16.1 | 1.2 | -12.2 | 3.5 | -10.0 |
| Alaska | 18.2 | 11.7 | -4.5 | -11.0 | -0.6 | -7.1 | 1.7 | -4.9 |
| Arizona | 0.5 | 4.1 | -22.2 | -18.5 | -18.3 | -14.7 | -16.0 | -12.4 |
| Arkansas | -6.7 | -12.2 | -29.4 | -34.9 | -25.5 | -31.0 | -23.2 | -28.7 |
| California | 3.1 | 3.6 | -19.5 | -19.1 | -15.7 | -15.2 | -13.4 | -12.9 |
| Colorado | 14.7 | 10.6 | -8.0 | -12.0 | -4.1 | -8.2 | -1.9 | -5.9 |
| Connecticut | 9.0 | 12.2 | -13.6 | -10.4 | -9.8 | -6.6 | -7.5 | -4.3 |
| Delaware | -30.7 | -12.4 | -53.4 | -35.1 | -49.5 | -31.2 | -47.3 | -29.0 |
| District of Columbia | 3.6 | -28.6 | -19.1 | -51.3 | -15.2 | -47.4 | -12.9 | -45.2 |
| Florida | 4.8 | 1.7 | -17.8 | -21.0 | -14.0 | -17.1 | -11.7 | -14.9 |
| Georgia | -3.3 | -22.5 | -25.9 | -45.2 | -22.1 | -41.3 | -19.8 | -39.0 |
| Hawaii | 14.0 | 8.4 | -8.7 | -14.3 | -4.8 | -10.5 | -2.5 | -8.2 |
| Idaho | 8.2 | 7.6 | -14.5 | -15.0 | -10.6 | -11.2 | -8.4 | -8.9 |
| Illinois | 1.0 | -3.3 | -21.7 | -26.0 | -17.9 | -22.2 | -15.6 | -19.9 |
| Indiana | 7.6 | -3.3 5.0 | -15.1 | -20.0 -17.7 | -17.9 | -13.8 | -13.0 | -11.6 |
| lowa | 5.0 | 5.3 | -17.7 | -17.3 | -11.2 | -13.5 | -11.5 | -11.2 |
| Kansas | 15.3 | -8.0 | -7.4 | -17.3 | -13.6 | -26.8 | -11.5 | -11.2 |
| Kentucky | -13.4 | -0.0 -13.1 | -7.4 -36.1 | -30.8 -35.8 | -3.5 -32.2 | -20.8 -31.9 | -30.0 | -24.5 -29.7 |
| • | -13.4 -23.7 | | -30.1 -46.4 | -35.8 -14.1 | -32.2 -42.5 | -31.9 -10.2 | -30.0 -40.3 | -29.7 |
| Louisiana | | 8.6 1.7 | | | | | | |
| Maine | -0.2 | | -22.9 | -21.0 | -19.0 | -17.2 | -16.7 | -14.9 |
| Maryland | -3.9 | -15.0 | -26.6 | -37.7 | -22.7 | -33.8 | -20.5 | -31.5 |
| Massachusetts | 0.2 | 4.5 | -22.5 | -18.1 | -18.6 | -14.3 | -16.3 | -12.0 |
| Michigan | -9.7 | 0.6 | -32.3 | -22.0 | -28.5 | -18.2 | -26.2 | -15.9 |
| Minnesota | 13.9 | 4.1 | -8.8 | -18.5 | -4.9 | -14.7 | -2.6 | -12.4 |
| Mississippi | -7.6 | 1.0 | -30.3 | -21.7 | -26.4 | -17.8 | -24.1 | -15.5 |
| Missouri | -7.4 | 5.6 | -30.1 | -17.0 | -26.2 | -13.2 | -24.0 | -10.9 |
| Montana | 2.1 | 1.1 | -20.5 | -21.5 | -16.7 | -17.7 | -14.4 | -15.4 |
| Nebraska | 4.7 | 0.0 | -18.0 | -22.7 | -14.2 | -18.8 | -11.9 | -16.6 |
| Nevada | -3.8 | 1.0 | -26.4 | -21.7 | -22.6 | -17.8 | -20.3 | -15.6 |
| New Hampshire | 14.6 | 7.0 | -8.1 | -15.6 | -4.2 | -11.8 | -1.9 | -9.5 |
| New Jersey | 9.0 | -5.1 | -13.6 | -27.8 | -9.8 | -23.9 | -7.5 | -21.7 |
| New Mexico | 0.2 | -15.2 | -22.5 | -37.9 | -18.6 | -34.0 | -16.3 | -31.8 |
| New York | 5.7 | 1.4 | -16.9 | -21.2 | -13.1 | -17.4 | -10.8 | -15.1 |
| North Carolina | 14.2 | 13.6 | -8.5 | -9.1 | -4.6 | -5.2 | -2.4 | -2.9 |
| North Dakota | -2.4 | -19.5 | -25.0 | -42.2 | -21.2 | -38.3 | -18.9 | -36.1 |
| Ohio | -13.5 | -10.4 | -36.2 | -33.1 | -32.4 | -29.2 | -30.1 | -26.9 |
| Oklahoma | 8.6 | -8.9 | -14.1 | -31.5 | -10.2 | -27.7 | -7.9 | -25.4 |
| Oregon | 2.3 | 5.1 | -20.3 | -17.6 | -16.5 | -13.7 | -14.2 | -11.5 |
| Pennsylvania | 9.7 | 3.1 | -12.9 | -19.6 | -9.1 | -15.7 | -6.8 | -13.4 |
| Rhode Island | 17.9 | 10.1 | -4.8 | -12.6 | -0.9 | -8.7 | 1.3 | -6.4 |
| South Carolina | -8.9 | 1.2 | -31.6 | -21.4 | -27.7 | -17.6 | -25.5 | -15.3 |
| South Dakota | 6.3 | -4.9 | -16.4 | -27.6 | -12.5 | -23.7 | -10.2 | -21.5 |
| Tennessee | -15.2 | -21.7 | -37.9 | -44.4 | -34.0 | -40.5 | -31.7 | -38.2 |
| Texas | -14.2 | -19.6 | -36.9 | -42.2 | -33.0 | -38.4 | -30.7 | -36.1 |
| Utah | 6.0 | -5.7 | -16.7 | -28.3 | -12.8 | -24.5 | -10.5 | -22.2 |
| Vermont | 8.6 | 2.7 | -14.0 | -20.0 | -10.2 | -16.1 | -7.9 | -13.9 |
| Virginia | -22.9 | -14.5 | -45.6 | -37.2 | -41.7 | -33.3 | -39.5 | -31.1 |
| Washington | 13.5 | 4.0 | -9.1 | -18.7 | -5.3 | -14.8 | -3.0 | -12.5 |
| West Virginia | -0.3 | 16.4 | -22.9 | -6.3 | -19.1 | -2.4 | -16.8 | -0.2 |
| Wisconsin | 10.2 | 2.3 | -12.5 | -20.4 | -8.6 | -16.5 | -6.3 | -14.2 |
| Wyoming | 22.7 | 10.3 | 0.0 | -12.4 | 3.9 | -8.6 | 6.1 | -6.3 |

Table C-7.Distance above benchmark rate of students with disabilities in NAEP grade 4
reading assessments, estimated using nation-based approach and
recentered to the top 1, 5, and 10 states: By state, 2005 and 2007

| | Unadjusted | | Тор | Top 1 | | Top 5 | | Top 10 | |
|----------------------|------------|---------------|---------------|----------------|---------------|----------------|---------------|--------|--|
| State | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | |
| Alabama | 15.3 | 0.2 | 0.0 | -15.1 | 1.8 | -13.3 | 3.4 | -11.7 | |
| Alaska | 15.2 | 11.6 | -0.1 | -3.7 | 1.8 | -1.8 | 3.3 | -0.2 | |
| Arizona | 5.5 | -6.0 | -9.8 | -21.3 | -8.0 | -19.5 | -6.4 | -17.9 | |
| Arkansas | 1.2 | -9.7 | -14.0 | -25.0 | -12.2 | -23.2 | -10.6 | -21.6 | |
| California | 8.7 | 3.2 | -6.6 | -12.0 | -4.8 | -10.2 | -3.2 | -8.6 | |
| Colorado | 8.4 | 3.2 | -6.8 | -12.1 | -5.0 | -10.3 | -3.4 | -8.7 | |
| Connecticut | 9.1 | 11.3 | -6.2 | -3.9 | -4.4 | -2.1 | -2.8 | -0.5 | |
| Delaware | -28.7 | -1.8 | -44.0 | -17.1 | -42.1 | -15.3 | -40.5 | -13.7 | |
| District of Columbia | -0.5 | -26.1 | -15.8 | -41.4 | -14.0 | -39.5 | -12.4 | -37.9 | |
| Florida | 7.9 | 5.5 | -7.4 | -9.7 | -5.6 | -7.9 | -4.0 | -6.3 | |
| Georgia | -6.8 | -24.8 | -22.0 | -40.0 | -20.2 | -38.2 | -18.6 | -36.6 | |
| Hawaii | 9.6 | 13.4 | -5.7 | -1.8 | -3.8 | 0.0 | -2.2 | 1.6 | |
| Idaho | 11.1 | 0.0 | -4.2 | -15.3 | -2.4 | -13.4 | -0.8 | -11.9 | |
| Illinois | 5.6 | 2.1 | -9.7 | -13.2 | -7.9 | -11.3 | -6.3 | -9.7 | |
| Indiana | 3.1 | -1.5 | -12.2 | -16.8 | -10.4 | -14.9 | -8.8 | -13.3 | |
| lowa | 6.4 | -1.3 | -12.2 | -16.6 | -10.4 -7.1 | -14.9 | 5.5 | -13.3 | |
| Kansas | 8.4 | -1.3 -5.8 | -6.9 -6.9 | -10.0 -21.0 | -5.1 | -14.0 -19.2 | -3.5 -3.5 | -13.2 | |
| Kentucky | -15.9 | -5.8 -21.1 | -0.9 -31.2 | -21.0 | -29.3 | -19.2 -34.5 | -3.5 -27.8 | -32.9 | |
| Louisiana | -17.2 | -21.1 | -31.2 | -30.3 -9.7 | -29.3 | -34.3 -7.9 | -27.8 | -52.9 | |
| | | | | | | | | | |
| Maine | -1.4 | -4.1 -19.4 | -16.7 | -19.4 | -14.8 | -17.6 | -13.2 | -16.0 | |
| Maryland | 2.8 | | -12.4 | -34.7 | -10.6 | -32.8 | -9.0 | -31.2 | |
| Massachusetts | -1.3 | -3.2 | -16.6 | -18.4 | -14.8 | -16.6 | -13.2 | -15.0 | |
| Michigan | -9.7 | -7.8 | -25.0 | -23.1 | -23.1 | -21.3 | -21.5 | -19.7 | |
| Minnesota | 11.8 | -0.2 | -3.5 | -15.4 | -1.6 | -13.6 | -0.1 | -12.0 | |
| Mississippi | -16.1 | -12.7 | -31.4 | -27.9 | -29.6 | -26.1 | -28.0 | -24.5 | |
| Missouri | -13.2 | 2.4 | -28.4 | -12.9 | -26.6 | -11.1 | -25.0 | -9.5 | |
| Montana | 0.2 | -2.3 | -15.1 | -17.6 | -13.3 | -15.7 | -11.7 | -14.2 | |
| Nebraska | 9.7 | -0.9 | -5.6 | -16.2 | -3.7 | -14.4 | -2.1 | -12.8 | |
| Nevada | 3.1 | -1.1 | -12.2 | -16.4 | -10.4 | -14.6 | -8.8 | -13.0 | |
| New Hampshire | 13.9 | 3.9 | -1.4 | -11.3 | 0.5 | -9.5 | 2.1 | -7.9 | |
| New Jersey | 5.9 | -7.0 | -9.4 | -22.3 | -7.6 | -20.5 | -6.0 | -18.9 | |
| New Mexico | -1.8 | -12.5 | -17.1 | -27.7 | -15.3 | -25.9 | -13.7 | -24.3 | |
| New York | -4.1 | -8.0 | -19.4 | -23.2 | -17.6 | -21.4 | -16.0 | -19.8 | |
| North Carolina | 9.8 | 6.3 | -5.5 | -9.0 | -3.7 | -7.2 | -2.1 | -5.6 | |
| North Dakota | -9.6 | -29.4 | -24.8 | -44.7 | -23.0 | -42.9 | -21.4 | -41.3 | |
| Ohio | -13.1 | -12.2 | -28.4 | -27.4 | -26.6 | -25.6 | -25.0 | -24.0 | |
| Oklahoma | 8.4 | -11.8 | -6.9 | -27.1 | -5.1 | -25.3 | -3.5 | -23.7 | |
| Oregon | 9.4 | 10.8 | -5.9 | -4.4 | -4.0 | -2.6 | -2.4 | -1.0 | |
| Pennsylvania | 10.3 | 0.1 | -4.9 | -15.2 | -3.1 | -13.4 | -1.5 | -11.8 | |
| Rhode Island | 10.6 | 7.0 | -4.7 | -8.2 | -2.8 | -6.4 | -1.3 | -4.8 | |
| South Carolina | -16.5 | -15.0 | -31.8 | -30.3 | -29.9 | -28.5 | -28.3 | -26.9 | |
| South Dakota | 10.3 | -19.6 | -5.0 | -34.9 | -3.2 | -33.1 | -1.6 | -31.5 | |
| Tennessee | -16.7 | -22.1 | -32.0 | -37.4 | -30.2 | -35.6 | -28.6 | -34.0 | |
| Texas | -10.6 | -16.1 | -25.8 | -31.4 | -24.0 | -29.6 | -22.4 | -28.0 | |
| Utah | 4.5 | -6.4 | -10.8 | -21.7 | -9.0 | -19.9 | -7.4 | -18.3 | |
| Vermont | 8.2 | -0.2 | -7.1 | -15.5 | -5.2 | -13.6 | -3.7 | -12.0 | |
| Virginia | -14.7 | -17.4 | -29.9 | -32.6 | -28.1 | -30.8 | -26.5 | -29.2 | |
| Washington | 7.0 | -4.3 | -8.3 | -19.6 | -6.5 | -17.8 | -4.9 | -16.2 | |
| West Virginia | -4.4 | 11.7 | -19.6 | -3.5 | -17.8 | -1.7 | -16.2 | -0.1 | |
| Wisconsin | 4.7 | -3.5 | -10.6 | -18.8 | -8.8 | -17.0 | -7.2 | -15.4 | |
| Wyoming | 10.3 | 7.8 | -5.0 | -7.5 | -3.1 | -5.6 | -1.5 | -4.0 | |

Table C-8.Distance above benchmark rate of students with disabilities in NAEP grade 8
reading assessments, estimated using nation-based approach and
recentered to the top 1, 5, and 10 states: By state, 2005 and 2007

| | | Grade | 4 | | | Grade | 8 | |
|----------------------|--------------------|--------------|--------------|--------------|--------------------|-------------|---------------|--------|
| | Distance | Centered on | | | Distance | Centered on | | |
| State | above benchmark | Top 1 | Top 5 | Top 10 | above benchmark | Top 1 | Top 5 | Top 10 |
| Alabama | 7.5 | -2.3 | -0.3 | 1.0 | 11.9 | 0.0 | 2.5 | 3.6 |
| Alaska | 8.0 | -1.8 | 0.2 | 1.5 | 4.3 | -7.6 | -5.2 | -4.0 |
| Arizona | -4.2 | -14.1 | -12.1 | -10.8 | -7.7 | -19.6 | -17.2 | -16.0 |
| Arkansas | 5.7 | -4.2 | -2.1 | -0.9 | 4.4 | -7.5 | -5.1 | -3.9 |
| California | -4.4 | -14.3 | -12.2 | -11.0 | 4.6 | -7.3 | -4.9 | -3.7 |
| Colorado | 2.8 | -7.1 | -5.0 | -3.7 | 5.0 | -6.9 | -4.4 | -3.3 |
| Connecticut | 0.2 | -9.7 | -7.6 | -6.4 | 1.6 | -10.3 | -7.8 | -6.7 |
| Delaware | -23.5 | -33.3 | -31.3 | -30.0 | -39.8 | -51.7 | -49.3 | -48.2 |
| District of Columbia | -7.3 | -17.2 | -15.1 | -13.9 | -1.4 | -13.3 | -10.9 | -9.7 |
| Florida | 3.1 | -6.8 | -4.7 | -3.5 | 5.9 | -6.0 | -3.5 | -2.4 |
| Georgia | 2.3 | -7.6 | -5.5 | -4.3 | 1.2 | -10.7 | -8.3 | –7.1 |
| Hawaii | 3.1 | -6.8 | | -4.5 | 5.6 | -6.3 | -3.8 | -2.7 |
| Idaho | 9.9 | 0.0 | 2.1 | 3.3 | 9.0 | -3.0 | -0.5 | 0.6 |
| Illinois | 3.4 | -6.5 | -4.4 | -3.2 | 5.8 | 6.1 | -3.6 | -2.5 |
| Indiana | 4.9 | -0.5 -4.9 | -4.4 -2.9 | -3.2 -1.6 | -1.9 | -13.8 | -3.0 -11.4 | -10.2 |
| | | | | | | | | |
| lowa | 2.4 | -7.5 | -5.4 | -4.2 | 6.0 | -5.9 | -3.5 | -2.3 |
| Kansas | 4.1 | -5.7 | -3.7 | -2.4 | 1.7 | -10.2 | -7.7 | -6.6 |
| Kentucky | 1.4 | -8.5 | -6.4 | -5.1 | -5.4 | -17.3 | -14.8 | -13.7 |
| Louisiana | -1.8 | -11.6 | -9.6 | -8.3 | -6.0 | -17.9 | -15.4 | -14.3 |
| Maine | -0.2 | -10.1 | -8.1 | -6.8 | -0.5 | -12.5 | -10.0 | -8.9 |
| Maryland | -4.4 | -14.3 | -12.2 | -11.0 | -9.1 | -21.0 | -18.5 | -17.4 |
| Massachusetts | -1.7 | -11.6 | -9.5 | -8.3 | -9.3 | -21.2 | -18.7 | -17.6 |
| Michigan | -5.9 | -15.8 | -13.7 | -12.5 | -8.2 | -20.1 | -17.6 | -16.5 |
| Minnesota | 2.6 | -7.3 | -5.2 | -3.9 | 7.8 | -4.1 | -1.6 | -0.5 |
| Mississippi | -8.1 | -17.9 | -15.9 | -14.6 | -13.5 | -25.4 | -23.0 | -21.8 |
| Missouri | 2.6 | -7.2 | -5.2 | -3.9 | -2.6 | -14.5 | -12.0 | -10.9 |
| Montana | 1.1 | -8.8 | -6.7 | -5.4 | 4.9 | -7.0 | -4.6 | -3.4 |
| Nebraska | 2.8 | -7.1 | -5.0 | -3.7 | 8.9 | -3.0 | -0.5 | 0.6 |
| Nevada | -4.8 | -14.6 | -12.6 | -11.3 | 0.5 | -11.4 | -9.0 | -7.8 |
| New Hampshire | 6.4 | -3.4 | -1.4 | -0.1 | 8.1 | -3.8 | -1.3 | -0.2 |
| New Jersey | 1.9 | -8.0 | -5.9 | -4.7 | 1.9 | -10.0 | -7.5 | -6.4 |
| New Mexico | 5.3 | -4.6 | -2.5 | -1.3 | 7.5 | -4.4 | -1.9 | -0.8 |
| New York | -1.9 | -11.8 | -9.7 | -8.5 | 0.0 | -11.9 | -9.4 | -8.3 |
| North Carolina | 2.4 | -7.5 | -5.4 | -4.2 | 4.7 | -7.2 | -4.7 | -3.6 |
| North Dakota | -0.9 | -10.8 | -8.7 | -7.5 | -2.9 | -14.8 | -12.3 | -11.2 |
| Ohio | -7.9 | -17.7 | -15.7 | -14.4 | -13.2 | -25.1 | -22.6 | -21.5 |
| Oklahoma | -1.6 | -11.4 | -9.4 | -8.1 | 1.0 | -10.9 | -8.5 | -7.3 |
| Oregon | -3.1 | -12.9 | -10.9 | -9.6 | 7.4 | -4.5 | -2.0 | -0.9 |
| Pennsylvania | 3.2 | -6.7 | -4.6 | -3.3 | 3.2 | -8.7 | -6.2 | -5.1 |
| Rhode Island | 1.9 | -8.0 | -6.0 | -4.7 | 3.1 | -8.8 | -6.3 | -5.2 |
| South Carolina | -10.9 | -20.8 | -18.7 | -17.4 | -20.8 | -32.7 | -30.3 | -29.1 |
| South Dakota | 3.9 | -5.9 | -3.9 | -2.6 | 5.8 | -6.1 | -3.6 | -2.5 |
| Tennessee | 0.7 | -9.2 | -7.1 | -5.9 | -4.6 | -16.6 | -14.1 | -13.0 |
| Texas | -19.3 | -29.1 | -27.1 | -25.8 | -18.6 | -30.5 | -28.0 | -26.9 |
| Utah | 5.2 | -4.7 | -2.6 | -1.4 | 6.2 | -5.7 | -3.2 | -2.1 |
| Vermont | -1.0 | -10.9 | -8.8 | -7.5 | 1.8 | -10.1 | -7.7 | -6.5 |
| Virginia | -12.4 | -22.3 | -20.2 | -19.0 | -10.2 | -22.1 | -19.7 | -18.5 |
| Washington | 5.1 | -4.8 | -2.8 | -1.5 | 6.9 | -5.0 | -2.6 | -1.4 |
| West Virginia | 3.0 | -6.9 | -4.8 | -3.6 | 2.0 | -9.9 | -7.5 | -6.3 |
| Wisconsin | 5.2 | -4.7 | -2.6 | -1.3 | 5.0 | -6.9 | -4.5 | -3.3 |
| Wyoming | 7.2 | -2.7 | -0.7 | 0.6 | 9.3 | -2.6 | -0.1 | 1.0 |

Table C-9.Distance above benchmark rate of students with disabilities in NAEP grade 4
and 8 mathematics assessments, estimated using state-specific approach
and recentered to the top 1, 5, and 10 states: By state, 2005

| | | Grade | 4 | | | Grade 8 | | | |
|----------------------|----------------------|----------------|--------------|----------------|--------------------|----------------|-------|---------------|--|
| | Distance Centered on | | | | Distance | Centered on | | | |
| State | above benchmark | Top 1 | Top 5 | Top 10 | above benchmark | Top 1 | Top 5 | Top 10 | |
| Alabama | 18.8 | -2.3 | 1.7 | 3.9 | 14.4 | 0.0 | 1.9 | 3.6 | |
| Alaska | 16.4 | -4.6 | -0.7 | 1.6 | 14.4 | 0.0 | 2.0 | 3.6 | |
| Arizona | -1.5 | -22.6 | -18.6 | -16.4 | 4.4 | -10.0 | -8.1 | -6.4 | |
| Arkansas | -9.5 | -30.6 | -26.6 | -24.4 | -1.1 | -15.4 | -13.5 | -11.8 | |
| California | 1.4 | -19.7 | -15.7 | -13.4 | 7.6 | -6.8 | -4.8 | -3.2 | |
| Colorado | 12.9 | -8.2 | -4.2 | -1.9 | 7.0 | -7.4 | -5.4 | -3.8 | |
| Connecticut | 7.7 | -13.4 | -9.4 | -7.2 | 8.1 | -6.3 | -4.3 | -2.7 | |
| Delaware | -34.0 | -55.1 | -51.1 | -48.8 | -31.4 | -45.8 | -43.8 | -42.2 | |
| District of Columbia | 0.7 | -20.4 | -16.4 | -14.2 | -2.3 | -16.7 | -14.7 | -13.1 | |
| Florida | 3.2 | -17.9 | -13.9 | -11.6 | 7.0 | -7.4 | -5.5 | -3.8 | |
| Georgia | -6.1 | -27.2 | -23.2 | -21.0 | -8.6 | -23.0 | -21.1 | -19.4 | |
| Hawaii | 12.9 | -8.2 | -4.2 | -2.0 | 8.9 | -5.5 | -3.6 | -1.9 | |
| Idaho | 6.1 | _15.0 | -11.0 | -8.8 | 9.7 | -4.7 | -2.8 | -1.1 | |
| Illinois | -1.0 | -22.1 | -18.1 | -15.9 | 4.5 | -9.9 | -7.9 | -6.3 | |
| Indiana | 5.4 | -15.7 | -11.7 | -9.4 | 1.8 | -12.6 | -10.6 | -9.0 | |
| lowa | 2.5 | -18.6 | -14.6 | _9.4 _12.4 | 5.4 | -12.0 | -7.1 | | |
| Kansas | 13.0 | -18.0 | -14.0 | -12.4 -1.9 | 6.5 | -9.0 -7.9 | -7.1 | -5.4 -4.3 | |
| Kentucky | -17.0 | -38.1 | -34.1 | -31.8 | -18.9 | -33.3 | -31.3 | -4.3 -29.7 | |
| Louisiana | -17.0 | -38.1 | 34.1 44.2 | -31.8 -41.9 | -19.6 | -33.3 -34.0 | -31.3 | -29.7 | |
| Maine | -27.1 | -46.2 -24.0 | | | -19.8 -3.4 | | | | |
| | | | -20.0 | -17.7 | | -17.8 | -15.8 | -14.2 | |
| Maryland | -6.0 | -27.1 | -23.1 | -20.9 | 0.8 | -13.6 | -11.7 | -10.0 | |
| Massachusetts | -2.1 | -23.1 | -19.2 | -16.9 | -2.6 | -17.0 | -15.0 | -13.4 | |
| Michigan | -12.5 | -33.5 | -29.6 | -27.3 | -11.6 | -26.0 | -24.1 | -22.4 | |
| Minnesota | 12.4 | -8.7 | -4.7 | -2.5 | 10.5 | -3.9 | -1.9 | -0.3 | |
| Mississippi | -9.0 | -30.1 | -26.1 | -23.9 | -16.9 | -31.3 | -29.3 | -27.7 | |
| Missouri | -10.6 | -31.7 | -27.7 | -25.4 | -15.4 | -29.8 | -27.9 | -26.2 | |
| Montana | -0.1 | -21.2 | -17.2 | -15.0 | -1.2 | -15.6 | -13.6 | -12.0 | |
| Nebraska | 2.6 | -18.5 | -14.5 | -12.3 | 8.7 | -5.7 | -3.7 | -2.1 | |
| Nevada | -6.0 | -27.1 | -23.1 | -20.8 | 1.8 | -12.6 | -10.6 | -9.0 | |
| New Hampshire | 12.6 | -8.5 | -4.5 | -2.3 | 12.9 | -1.5 | 0.5 | 2.1 | |
| New Jersey | 6.5 | -14.6 | -10.6 | -8.3 | 4.6 | -9.8 | -7.8 | -6.2 | |
| New Mexico | -2.0 | -23.1 | -19.1 | -16.8 | -2.8 | -17.2 | -15.2 | -13.6 | |
| New York | 3.8 | -17.3 | -13.3 | -11.1 | -5.3 | -19.7 | -17.7 | -16.1 | |
| North Carolina | 12.2 | -8.9 | -4.9 | -2.6 | 8.4 | -6.0 | -4.0 | -2.4 | |
| North Dakota | -4.8 | -25.9 | -21.9 | -19.7 | -11.6 | -26.0 | -24.0 | -22.4 | |
| Ohio | -16.8 | -37.9 | -33.9 | -31.7 | -15.2 | -29.6 | -27.6 | -26.0 | |
| Oklahoma | 6.2 | -14.9 | -10.9 | -8.7 | 7.0 | -7.4 | -5.4 | -3.8 | |
| Oregon | 0.4 | -20.7 | -16.7 | -14.5 | 8.4 | -6.0 | -4.0 | -2.4 | |
| Pennsylvania | 7.4 | -13.7 | -9.7 | -7.5 | 9.2 | -5.2 | -3.2 | -1.6 | |
| Rhode Island | 16.2 | -4.9 | -0.9 | 1.4 | 9.9 | -4.5 | -2.5 | -0.9 | |
| South Carolina | -10.5 | -31.6 | -27.6 | -25.3 | -17.8 | -32.2 | -30.2 | -28.6 | |
| South Dakota | 3.8 | -17.3 | -13.3 | -11.0 | 8.6 | -5.8 | -3.9 | -2.2 | |
| Tennessee | -18.8 | -39.9 | -35.9 | -33.6 | -19.0 | -33.4 | -31.4 | -29.8 | |
| Texas | -15.3 | -36.3 | -32.4 | -30.1 | -10.9 | -25.3 | -23.3 | -21.7 | |
| Utah | 4.1 | -17.0 | -13.0 | -10.8 | 3.1 | -11.3 | -9.3 | -7.7 | |
| Vermont | 6.1 | -15.0 | -11.0 | -8.8 | 6.9 | -7.5 | -5.5 | -3.9 | |
| Virginia | -26.3 | -47.4 | -43.4 | -41.2 | -16.3 | -30.7 | -28.7 | -27.1 | |
| Washington | 11.4 | -9.7 | -5.7 | -3.4 | 5.7 | -8.6 | -6.7 | -5.0 | |
| West Virginia | -2.4 | -23.5 | -19.5 | -17.2 | -6.1 | -20.5 | -18.5 | -16.9 | |
| Wisconsin | 7.7 | -13.4 | -9.4 | -7.1 | 3.3 | -11.1 | -9.2 | -7.5 | |
| Wyoming | 21.1 | 0.0 | 4.0 | 6.2 | 9.4 | -5.0 | -3.1 | -1.4 | |

Table C-10.Distance above benchmark rate of students with disabilities in NAEP grade 4
and 8 reading assessments, estimated using state-specific approach and
recentered to the top 1, 5, and 10 states: By state, 2005