

NAEP 2007 Mathematics Report for Wyoming



This report provides selected results from the National Assessment of Educational Progress (NAEP) for Wyoming's public school students at grades 4 and 8. Beginning in 1990, mathematics has been assessed in seven different years at the state level (at grade 8 in 1990, and at both grades 4 and 8 in 1992, 1996, 2000, 2003, 2005, and 2007).

In the 2007 assessment, 52 jurisdictions participated: the 50 states, the District of Columbia, and the Department of Defense Schools (domestic and overseas). Wyoming participated and met the criteria for reporting public school results. Mathematics results are reported by average scale scores (on a 0–500 point scale) and by achievement levels (*Basic*, *Proficient*, and *Advanced*).

NAEP is a project of the National Center for Education Statistics (NCES). For more information about the assessment, see *The Nation's Report Card, Mathematics 2007*, which is available on the NAEP website along with the full set of national and state results in an interactive database (<http://nces.ed.gov/nationsreportcard/>). Released test questions, scoring guides, and question-level performance data are also available on the website.

KEY FINDINGS FOR 2007

For grade 4:

- The average mathematics score for students in Wyoming was 244. This was higher than that in 1992 (225) and was not significantly different from that in 2005 (243).
- Wyoming's average score (244) was higher than that of the nation's public schools (239).
- The percentage of students in Wyoming who performed at or above *Proficient* was 44 percent. This was greater than that in 1992 (19 percent) and was not significantly different from that in 2005 (39 percent).
- In Wyoming, the percentage of students who performed at or above *Proficient* was greater than that for the nation's public schools (39 percent).
- The percentage of students in Wyoming who performed at or above *Basic* was 88 percent. This was greater than that in 1992 (69 percent) and was greater than that in 2005 (87 percent).
- In Wyoming, the percentage of students who performed at or above *Basic* was greater than that for the nation's public schools (81 percent).

For grade 8:

- The average mathematics score for students in Wyoming was 287. This was higher than that in 1990 (272) and was higher than that in 2005 (282).
- Wyoming's average score (287) was higher than that of the nation's public schools (280).
- The percentage of students in Wyoming who performed at or above *Proficient* was 36 percent. This was greater than that in 1990 (19 percent) and was greater than that in 2005 (29 percent).
- In Wyoming, the percentage of students who performed at or above *Proficient* was greater than that for the nation's public schools (31 percent).
- The percentage of students in Wyoming who performed at or above *Basic* was 80 percent. This was greater than that in 1990 (64 percent) and was greater than that in 2005 (76 percent).
- In Wyoming, the percentage of students who performed at or above *Basic* was greater than that for the nation's public schools (70 percent).

Comparisons Between Wyoming, the Nation, and Other Participating States and Jurisdictions

Fifty-two jurisdictions participated in the mathematics assessment in 2007. These include the 50 states, the District of Columbia, and the Department of Defense Education Activity (DoDEA) schools (domestic and overseas). Prior to 2005, NAEP reports presented results for the Department of Defense Dependents Schools (DoDDS) overseas and the Department of Defense Domestic Dependent Elementary and Secondary Schools (DDESS) in the United States separately. Data for the two jurisdictions in prior years have been retroactively combined to provide comparable data for the single DoDEA jurisdiction.

Comparisons by Achievement Levels

Figures 1-A and 1-B permit comparisons of all jurisdictions participating in the NAEP 2007 mathematics assessment in terms of percentages of grade 4 and 8 students performing at or above *Basic*. The participating states and jurisdictions are grouped into categories reflecting whether the percentage of their students performing at or above *Basic* (including *Proficient* and *Advanced*) was found to be higher than, not significantly different from, or lower than the percentage in Wyoming. The states and the nation are ordered by the percentage of students performing at or above *Basic* within each of the three comparison categories.

Grade 4 Achievement-Level Comparisons Results

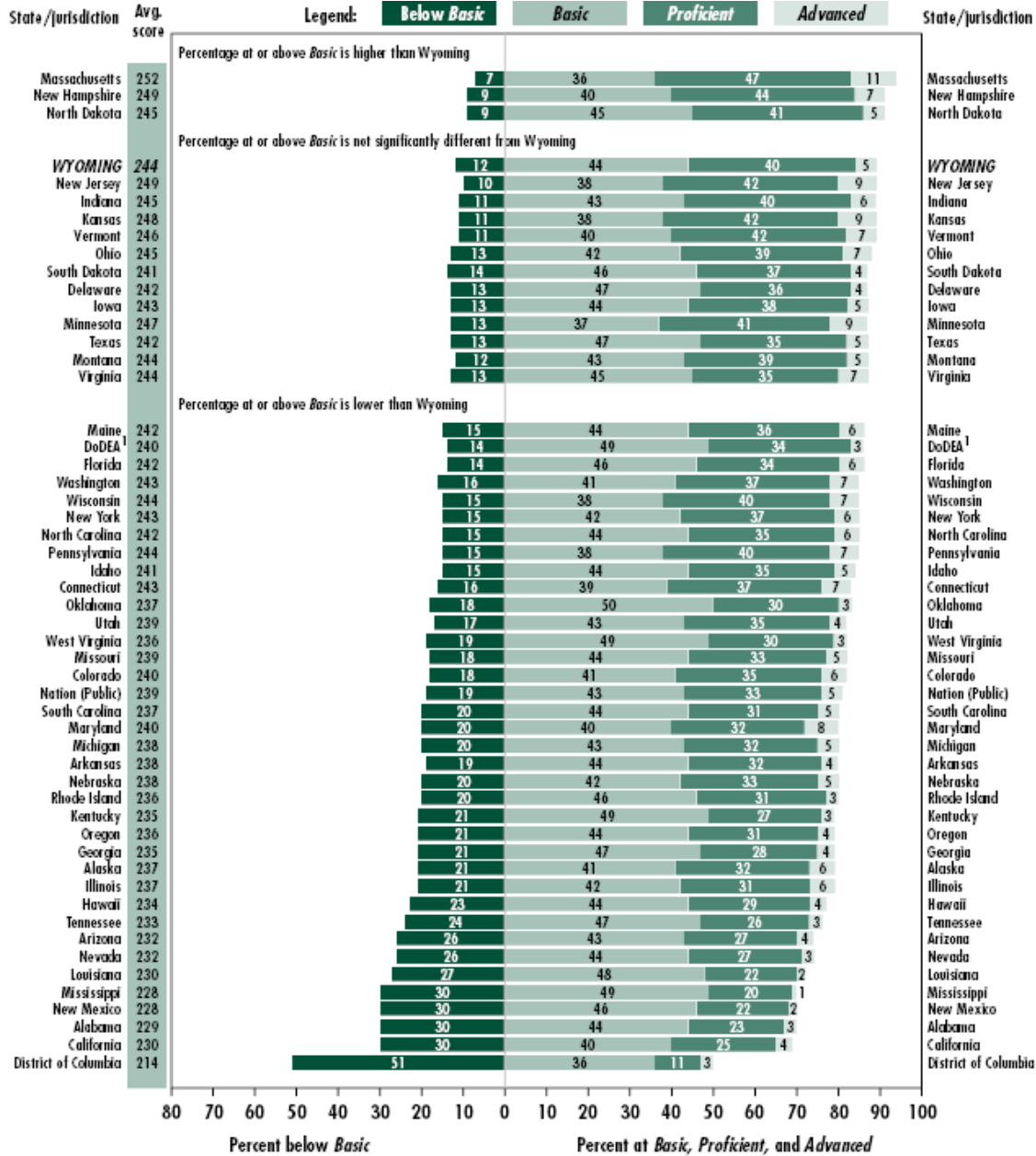
- The percentage of students performing at or above *Basic* level in Wyoming was higher than the percentages in 36 jurisdictions, not significantly different from those in 12 jurisdictions, and lower than those in 3 jurisdictions.

Grade 8 Achievement-Level Comparisons Results

- The percentage of students performing at or above *Basic* level in Wyoming was higher than the percentages in 34 jurisdictions, not significantly different from those in 15 jurisdictions, and lower than those in 2 jurisdictions.

Figure 1-A

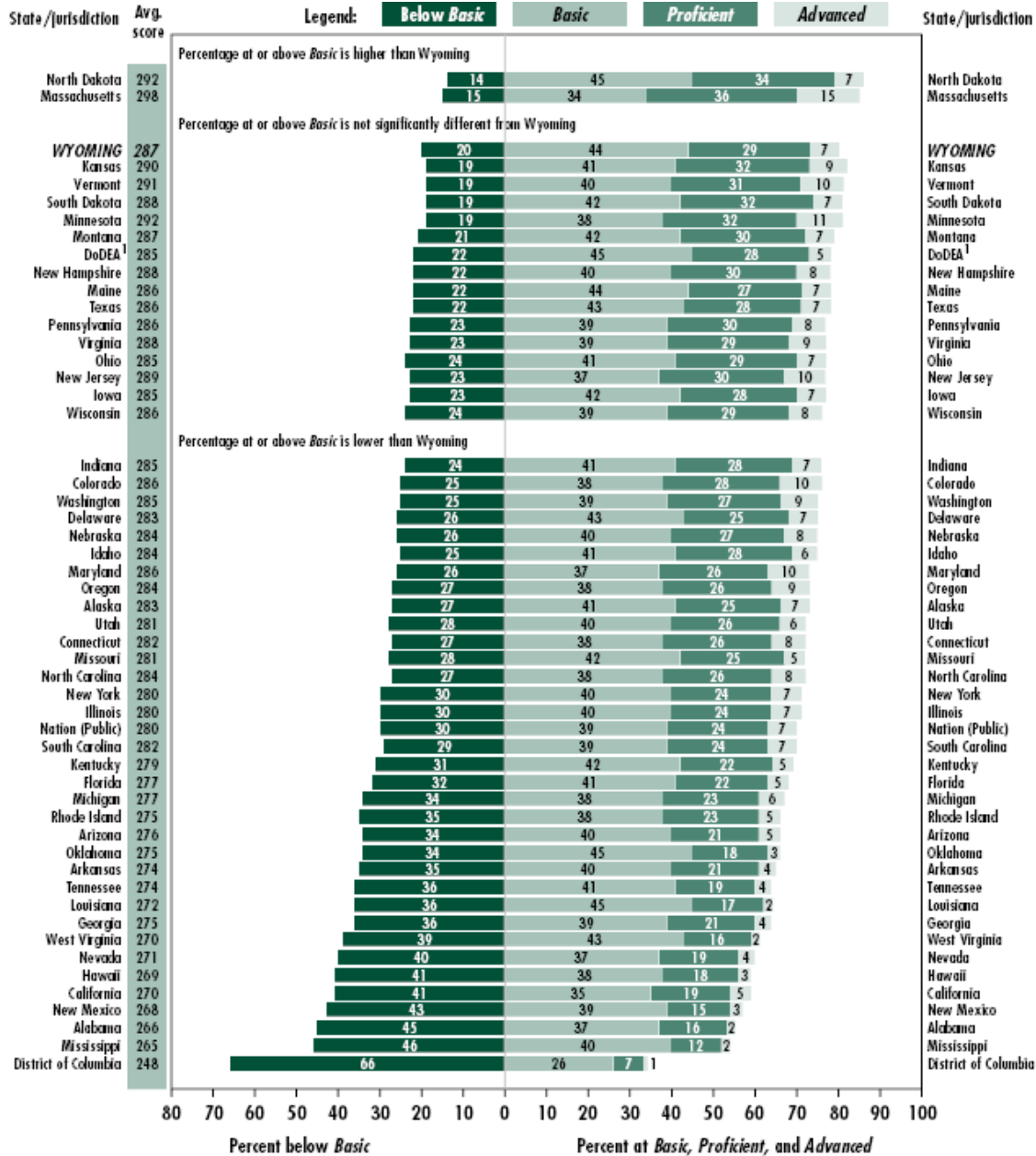
Average scale scores in NAEP mathematics for fourth-grade public school students, percentage within each achievement level, and Wyoming's percentage at or above Basic compared with the nation and other participating jurisdictions, by state: 2007



¹ Department of Defense Education Activity schools (domestic and overseas).
 NOTE: The bars above contain percentages of students in each NAEP mathematics achievement level. Achievement levels corresponding to each population of students are aligned at the point where the Basic category begins, so that they may be compared at Basic and above. Detail may not sum to totals because of rounding. The shaded bars are graphed using unrounded numbers. Significance tests used a multiple-comparison procedure based on all jurisdictions that participated.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2007 Mathematics Assessment.

Figure 1-B

Average scale scores in NAEP mathematics for eighth-grade public school students, percentage within each achievement level, and Wyoming's percentage at or above Basic compared with the nation and other participating jurisdictions, by state: 2007



¹ Department of Defense Education Activity schools (domestic and overseas).
 NOTE: The bars above contain percentages of students in each NAEP mathematics achievement level. Achievement levels corresponding to each population of students are aligned at the point where the Basic category begins, so that they may be compared at Basic and above. Detail may not sum to totals because of rounding. The shaded bars are graphed using unrounded numbers. Significance tests used a multiple-comparison procedure based on all jurisdictions that participated.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2007 Mathematics Assessment.