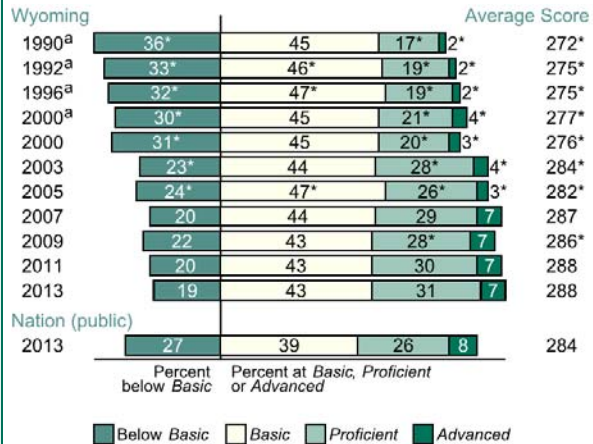


Overall Results

- In 2013, the average score of eighth-grade students in Wyoming was 288. This was higher than the average score of 284 for public school students in the nation.
- The average score for students in Wyoming in 2013 (288) was not significantly different from their average score in 2011 (288) and was higher than their average score in 1990 (272).
- The score gap between higher performing students in Wyoming (those at the 75th percentile) and lower performing students (those at the 25th percentile) was 42 points in 2013. This performance gap was not significantly different from that in 1990 (40 points).
- The percentage of students in Wyoming who performed at or above the NAEP *Proficient* level was 38 percent in 2013. This percentage was not significantly different from that in 2011 (37 percent) and was greater than that in 1990 (19 percent).
- The percentage of students in Wyoming who performed at or above the NAEP *Basic* level was 81 percent in 2013. This percentage was not significantly different from that in 2011 (80 percent) and was greater than that in 1990 (64 percent).

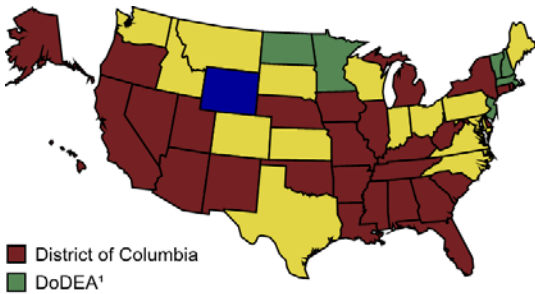
Achievement-Level Percentages and Average Score Results



* Significantly different ($p < .05$) from state's results in 2013. Significance tests were performed using unrounded numbers.
^a Accommodations not permitted. For information about NAEP accommodations, see <http://nces.ed.gov/nationsreportcard/about/inclusion.aspx>.

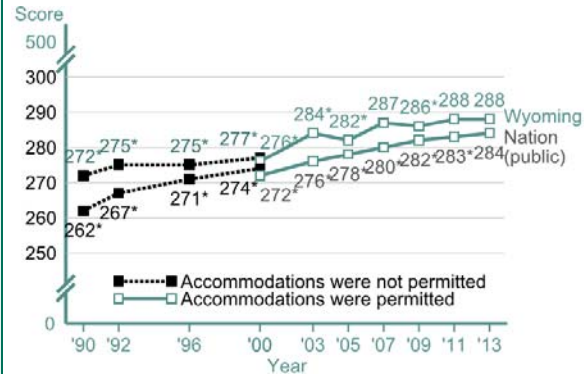
NOTE: Detail may not sum to totals because of rounding.

Compare the Average Score in 2013 to Other States/Jurisdictions



¹ Department of Defense Education Activity (overseas and domestic schools).
 In 2013, the average score in **Wyoming** (288) was
 ■ lower than those in 7 states/jurisdictions
 ■ higher than those in 29 states/jurisdictions
 ■ not significantly different from those in 15 states/jurisdictions

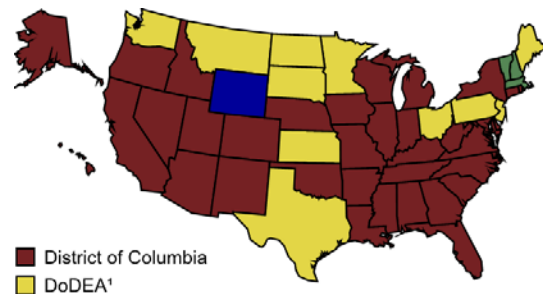
Average Scores for State/Jurisdiction and Nation (public)



* Significantly different ($p < .05$) from 2013. Significance tests were performed using unrounded numbers.

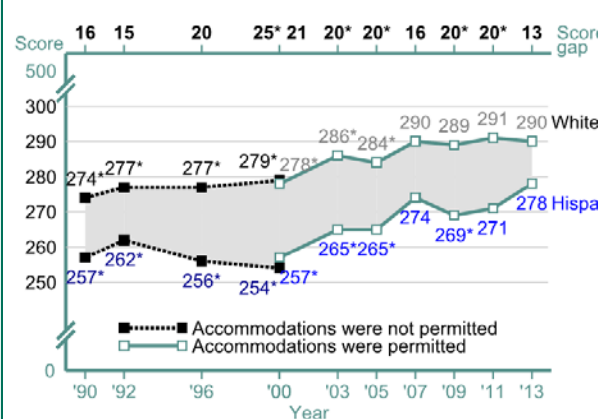
NOTE: For information about NAEP accommodations, see <http://nces.ed.gov/nationsreportcard/about/inclusion.aspx>.

Compare at or above Basic in 2013 to Other States/Jurisdictions



¹ Department of Defense Education Activity (overseas and domestic schools).
 In 2013, the percentage at or above *Basic* in **Wyoming** (81) was
 ■ smaller than those in 3 states/jurisdictions
 ■ greater than those in 36 states/jurisdictions
 ■ not significantly different from those in 12 states/jurisdictions

White - Hispanic Score Gap



* Significantly different ($p < .05$) from 2013. Significance tests were performed using unrounded numbers.

NOTE: For information about NAEP accommodations, see <http://nces.ed.gov/nationsreportcard/about/inclusion.aspx>.

Wyoming Mathematics 2013

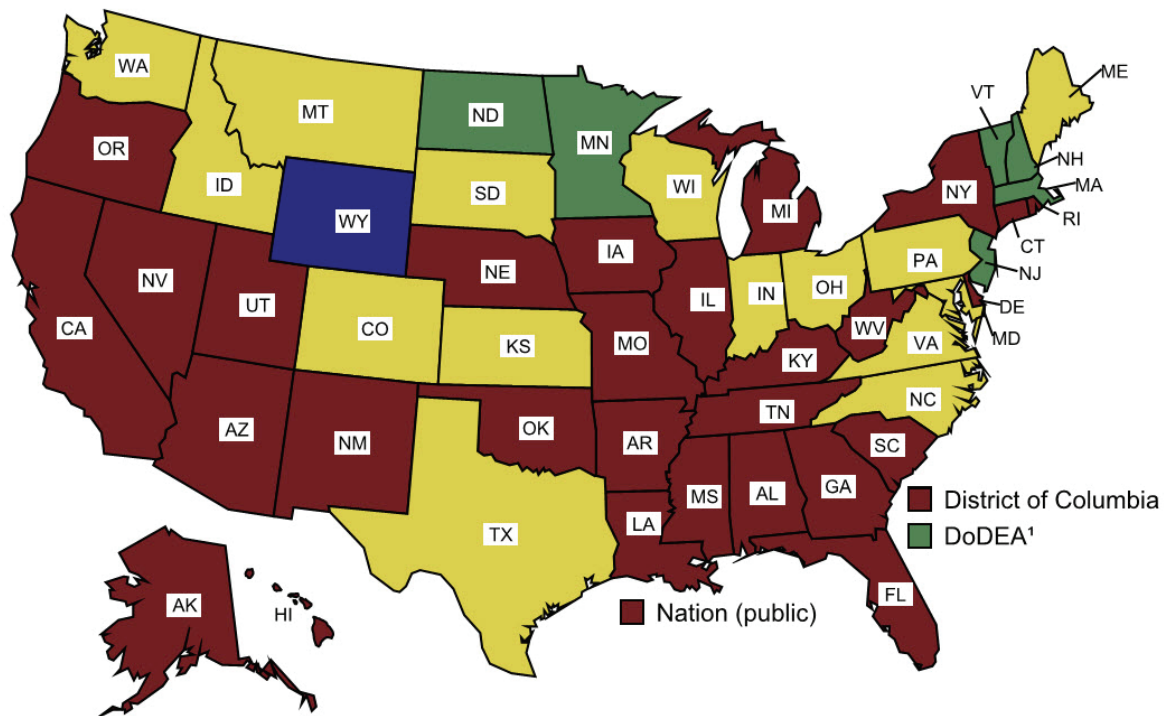
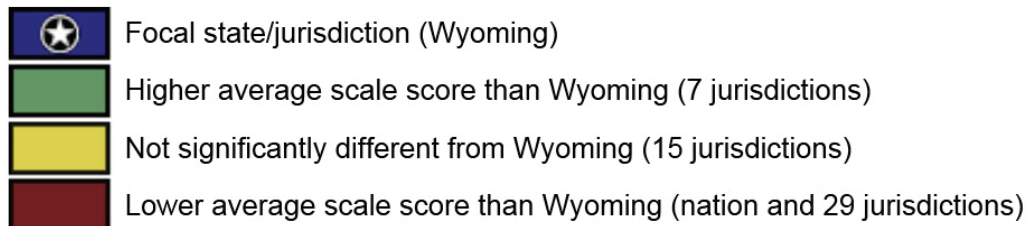


Grade 8 Report

National Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess fourth graders' mathematical skills in five categories: number properties & operations, measurement, geometry, data analysis & probability, and algebra. Scale scores range from 0 to 500, wherein a 262 score denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 299 reflects *Proficient* results or competency on challenging material, and 333 is considered to be *Advanced*.

Wyoming and the Nation — Grade 8 Mathematics Scale Scores



- ▶ On the 2013 mathematics assessment, Wyoming 8th graders had an average scale score that was reliably higher than in Alabama, Alaska, Arizona, Arkansas, California, Connecticut, District of Columbia, Delaware, Florida, Georgia, Hawaii, Illinois, Iowa, Kentucky, Louisiana, Michigan, Mississippi, Missouri, Nebraska, Nevada, New Mexico, New York, Oklahoma, Oregon, Rhode Island, South Carolina, Tennessee, Utah and West Virginia.
- ▶ Wyoming 8th graders had an average scale score that was not statistically different from students in Colorado, Idaho, Indiana, Kansas, Maine, Maryland, Montana, North Carolina, Ohio, Pennsylvania, South Dakota, Texas, Virginia, Washington and Wisconsin.
- ▶ Wyoming 4th graders had an average scale score which was reliably lower than students in Department of Defense Schools, Massachusetts, Minnesota, New Hampshire, New Jersey, North Dakota and Vermont.

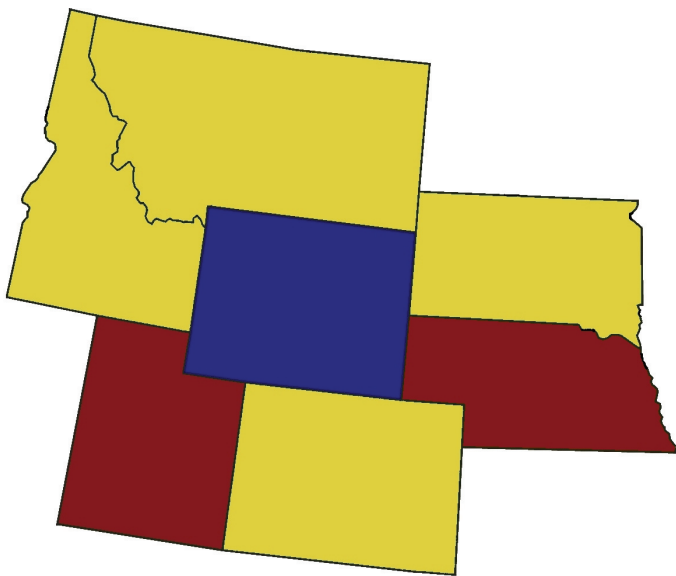
Results are based on statistical tests which take into account the variability of NAEP sampling.
For additional results and more information about Wyoming NAEP, please visit:
http://edu.wyoming.gov/Programs/statewide_assessment_system/naep.aspx.

Grade 8 Report

Regional Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess fourth graders' mathematical skills in five categories: number properties & operations, measurement, geometry, data analysis & probability, and algebra. Scale scores range from 0 to 500, wherein a 262 score denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 299 reflects *Proficient* results or competency on challenging material, and 333 is considered to be *Advanced*.

Average Scale Scores

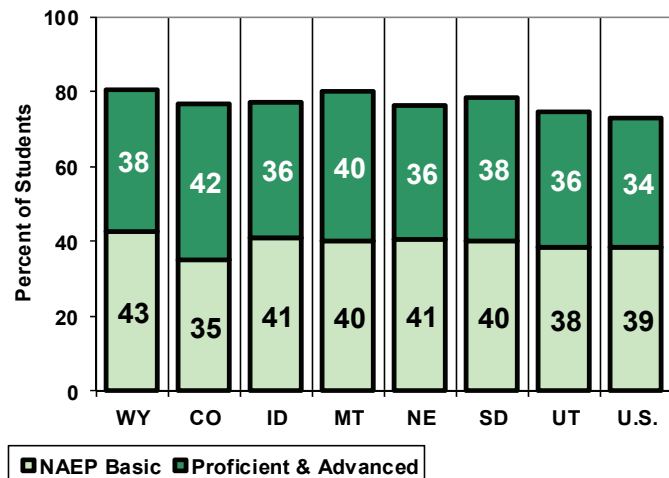


Legend: Wyoming (blue) is the focal state. States in yellow were not statistically different from Wyoming. States in red scored reliably lower than Wyoming.

- ▶ In 2013, the average mathematics scale score for 8th grade students in Wyoming was 288; this was reliably higher than the national average (284).
- ▶ Wyoming 8th graders had a higher average mathematics scale score in 2013 than their peers in Nebraska and Utah.
- ▶ Wyoming eighth graders had an average mathematics scale score in 2013 that was not statistically different from Colorado, Idaho, Montana or South Dakota.

Achievement Levels

- ▶ Eighty (81) percent of Wyoming's 8th graders scored at or above *Basic* on the 2013 mathematics assessment. This was higher than the nation's 73%
- ▶ Wyoming had a higher percentage of 8th graders scoring at or above *Basic* on the 2013 mathematics assessment than Nebraska and Utah.
- ▶ The percentage of Wyoming's 8th graders scoring at or above *Basic* on mathematics in 2013 was not reliably different from Colorado, Idaho, Montana or South Dakota.



Wyoming Mathematics 2013

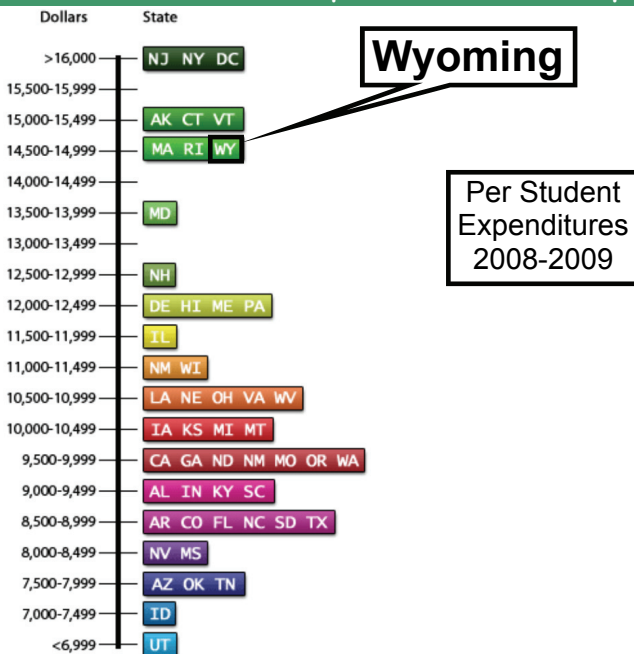


Grade 8 Report

Regional Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess fourth graders' mathematical skills in five categories: number properties & operations, measurement, geometry, data analysis & probability, and algebra. Scale scores range from 0 to 500, wherein a 262 score denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 299 reflects *Proficient* results or competency on challenging material, and 333 is considered to be *Advanced*.

Per Capita Student Expenditures During 2008-2009



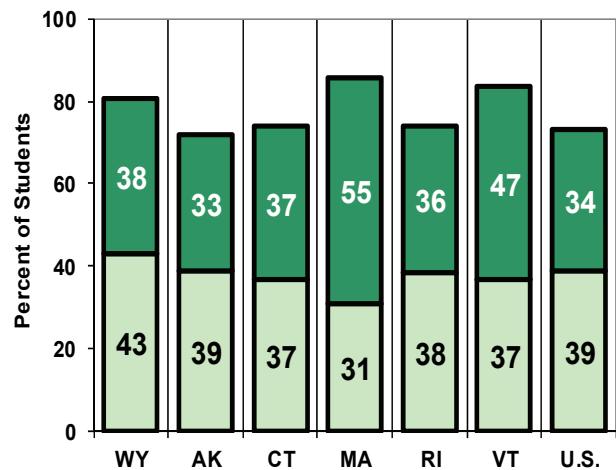
- ▶ Wyoming was among six states reporting per student expenditures between \$14,500 and \$15,500 during school year 2008-2009 (most recent data available). The other states were Alaska, Connecticut, Massachusetts, Rhode Island, and Vermont.

NOTE: The prekindergarten student membership was imputed for some states, affecting the total student count and per pupil expenditures calculation. Some values were affected by redistribution of reported expenditure values to correct for missing data items, and/or to distribute state direct support expenditures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Public Education Financial Survey (NPEFS)," fiscal year 2009, Version 1a.

Achievement Levels

- ▶ Eighty (81) percent of Wyoming 8th graders scored at or above *Basic* on the 2013 mathematics assessment. This was higher than the nation's 73 percent.
- ▶ The percentage of Wyoming 8th graders scoring at or above *Basic* on the 2013 mathematics assessment was also higher than students in Alaska, Connecticut, and Rhode Island, states with similar per student expenditures as in Wyoming
- ▶ The percentage of Wyoming 8th graders scoring at or above *Basic* on the 2013 mathematics assessment was lower than Vermont and Massachusetts.



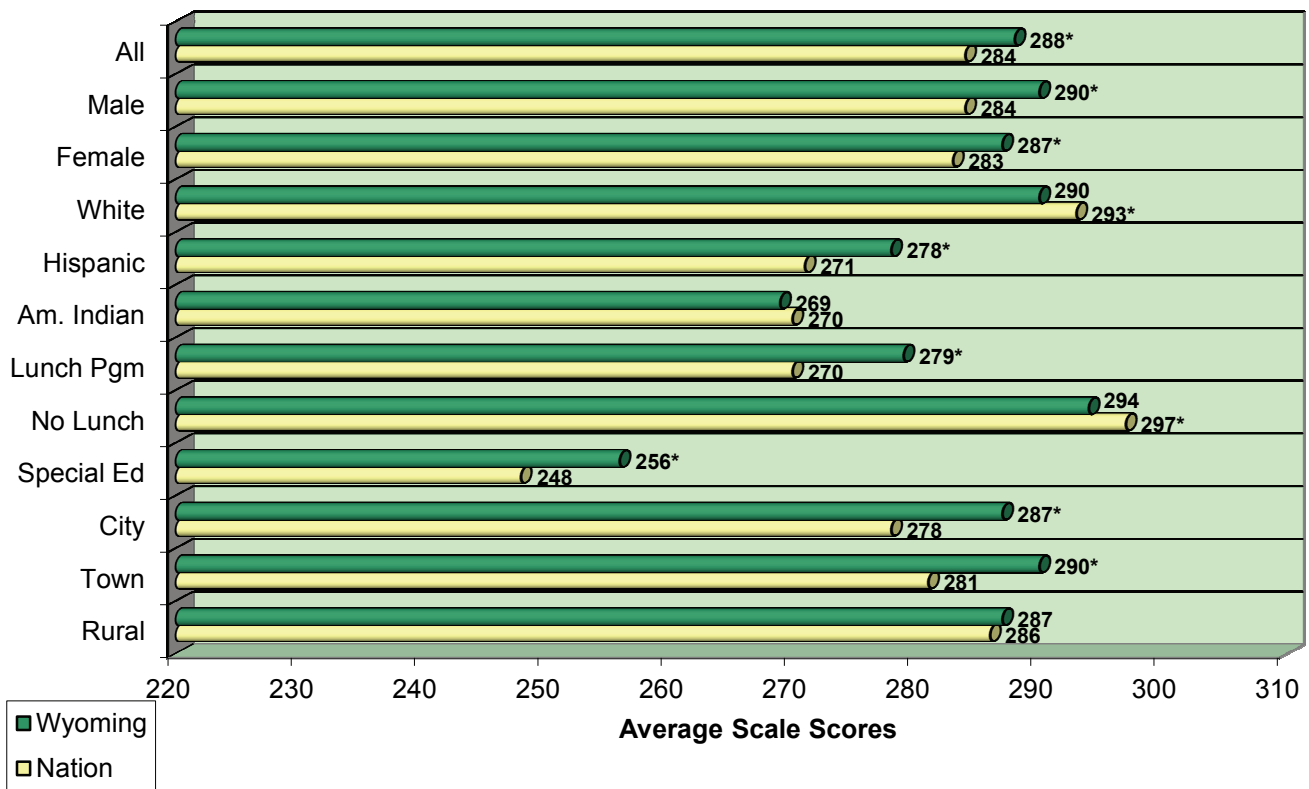
■ NAEP Basic ■ Proficient & Advanced

WY-US Student Gaps Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess fourth graders' mathematical skills in five categories: number properties & operations, measurement, geometry, data analysis & probability, and algebra. Scale scores range from 0 to 500, wherein a 262 score denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 299 reflects *Proficient* results or competency on challenging material, and 333 is considered to be *Advanced*.

Student Group Comparisons

Wyoming and National Results

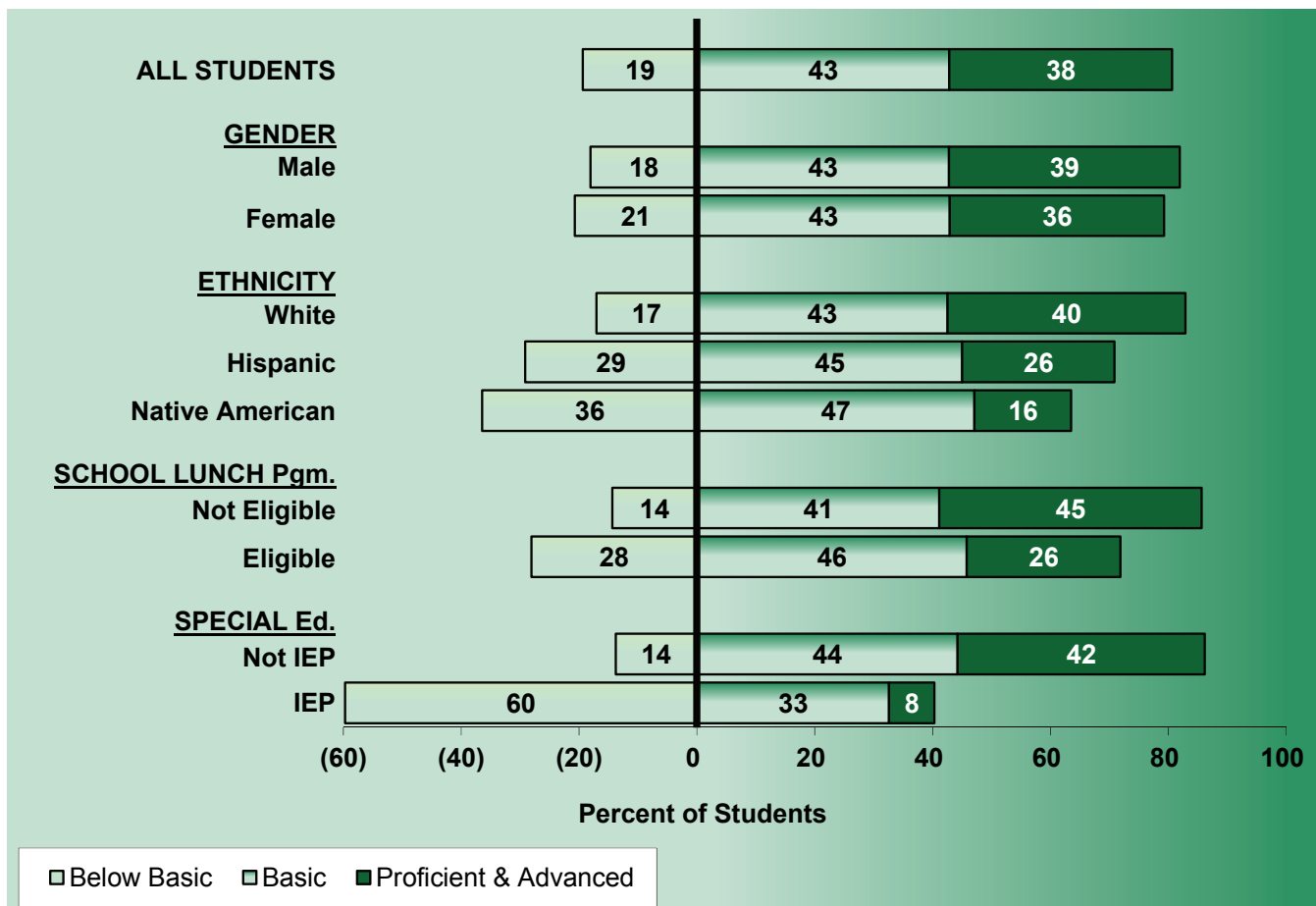


- ▶ In 2013, Wyoming eighth graders' average scale score in mathematics was higher than students nationally; Wyoming also had higher results students in seven student groups: both male and female students, Hispanic students, students from low income families (i.e., students qualifying for free or reduced price meals from the National School Lunch Program), Special Education students, and students in city or town schools (as defined by the US Census Bureau).
- ▶ Wyoming eighth graders in rural schools had average scale scores in mathematics that were not reliably different from the national results . This was also true for eighth grade Native American students.
- ▶ Wyoming average scale scores were lower than the rest of the nation in the state's two largest students groups:
 - White students (81% of Wyoming's 8th graders), and
 - Non-eligible students (i.e., students *not* qualifying for free or reduced price meals from the National School Lunch Program—63% of Wyoming's 8th graders).

Student Groups Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess fourth graders' mathematical skills in five categories: number properties & operations, measurement, geometry, data analysis & probability, and algebra. Scale scores range from 0 to 500, wherein a 262 score denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 299 reflects *Proficient* results or competency on challenging material, and 333 is considered to be *Advanced*.

Student Groups in Wyoming



- ▶ On the NAEP 2013 mathematics assessment, the proportion of eighth grade female students in Wyoming scoring at or above *Basic* (79 percent) was not reliably different than male students (82 percent).
- ▶ The proportion of eighth grade Hispanic (71 percent) and Native American (64 percent) students in Wyoming scoring at or above *Basic* was lower than their White peers (83 percent). Sampling was not sufficient to permit reporting of mathematics performance for eighth grade Asian and Black students.
- ▶ Wyoming eighth graders qualifying for free or reduced price meals in the School Lunch Program and scoring at or above *Basic* (72 percent) was lower than students not eligible for the program (86 percent).
- ▶ Special education students scoring at or above *Basic* (41 percent) was lower than general education students (90 percent).
- ▶ Sampling was not sufficient to permit reporting of reading performance for grade eight English Language Learners in Wyoming.