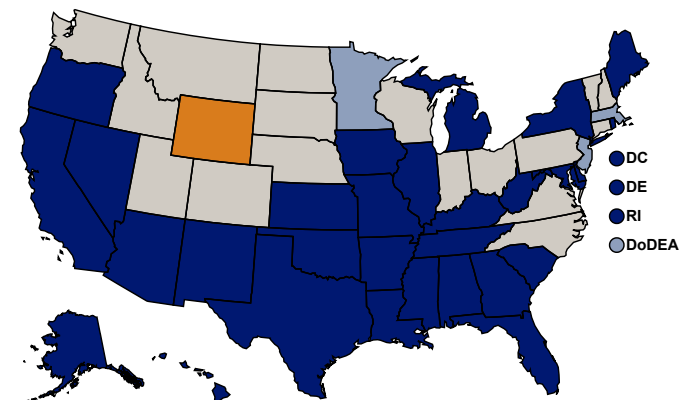


Overall Results

- In 2019, the average score of eighth-grade students in Wyoming was 286. This was higher than the average score of 281 for students in the nation.
- The average score for students in Wyoming in 2019 (286) was lower than their average score in 2017 (289) and was higher than their average score in 2000 (276).
- The percentage of students in Wyoming who performed at or above the *NAEP Proficient* level was 37 percent in 2019. This percentage was not significantly different from that in 2017 (38 percent) and was higher than that in 2000 (23 percent).
- The percentage of students in Wyoming who performed at or above the *NAEP Basic* level was 76 percent in 2019. This percentage was lower than that in 2017 (79 percent) and was higher than that in 2000 (69 percent).

Compare the Average Score in 2019 to Other States/Jurisdictions



In 2019, the average score in Wyoming (286) was
lower than those in 4 states/jurisdictions
higher than those in 30 states/jurisdictions
not significantly different from those in 17 states/jurisdictions

DoDEA = Department of Defense Education Activity (overseas and domestic schools)
 NOTE: Puerto Rico was not included in the comparison results.

Results for Student Groups in 2019

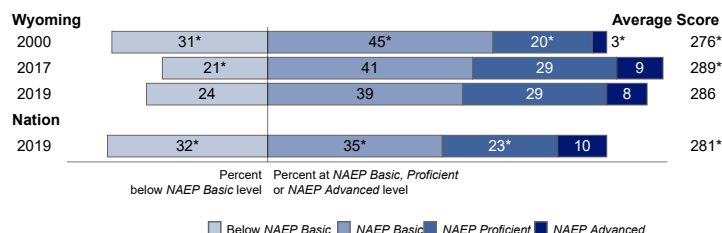
| Reporting Groups | Percentage of students | Avg. score | Percentage at or above NAEP | | Percentage at NAEP |
|--------------------------------------|------------------------|------------|-----------------------------|------------|--------------------|
| | | | Basic | Proficient | Advanced |
| Race/Ethnicity | | | | | |
| White | 77 | 291 | 81 | 41 | 10 |
| Black | 1 | † | † | † | † |
| Hispanic | 14 | 274 | 64 | 25 | 4 |
| Asian | 1 | † | † | † | † |
| American Indian/Alaska Native | 4 | 258 | 43 | 12 | 3 |
| Native Hawaiian/Pacific Islander | # | † | † | † | † |
| Two or more races | 2 | 274 | 62 | 28 | 4 |
| Gender | | | | | |
| Male | 50 | 285 | 75 | 35 | 8 |
| Female | 50 | 288 | 78 | 39 | 9 |
| National School Lunch Program | | | | | |
| Eligible | 34 | 273 | 64 | 24 | 3 |
| Not eligible | 66 | 294 | 83 | 44 | 11 |

Rounds to zero.

† Reporting standards not met.

NOTE: Detail may not sum to totals because of rounding, and because the "Information not available" category for the National School Lunch Program, which provides free/reduced-price lunches, is not displayed. Black includes African American and Hispanic includes Latino. Race categories exclude Hispanic origin.

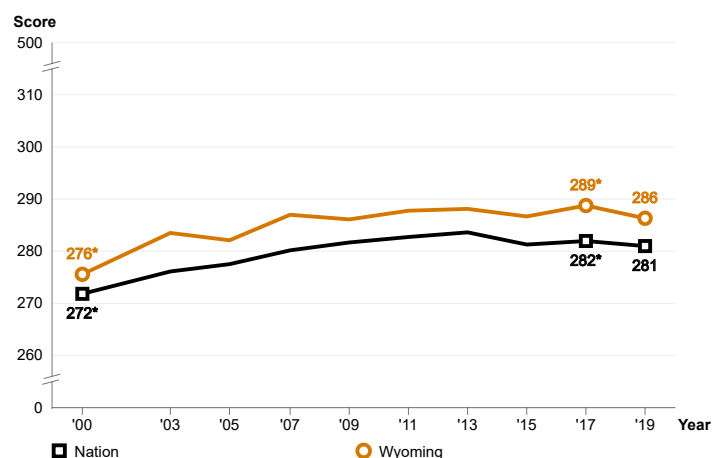
NAEP Achievement-Level Percentages and Average Score Results



* Significantly different ($p < .05$) from state's results in 2019. Significance tests were performed using unrounded numbers.

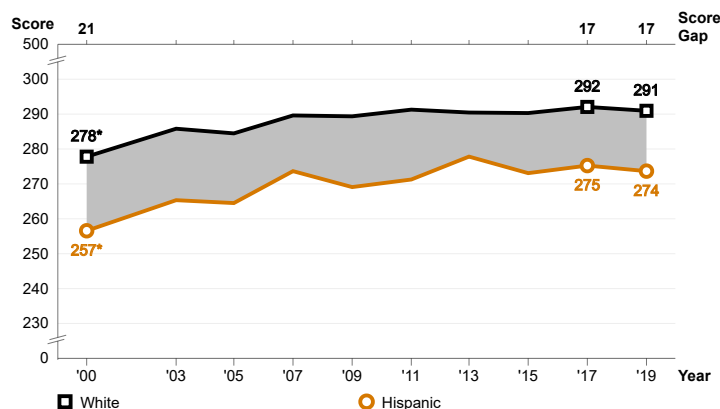
NOTE: NAEP achievement levels are to be used on a trial basis and should be interpreted and used with caution. Detail may not sum to totals because of rounding.

Average Scores for State/Jurisdiction and Nation



* Significantly different ($p < .05$) from 2019. Significance tests were performed using unrounded numbers.

White - Hispanic Score Gap



Wyoming Mathematics 2019

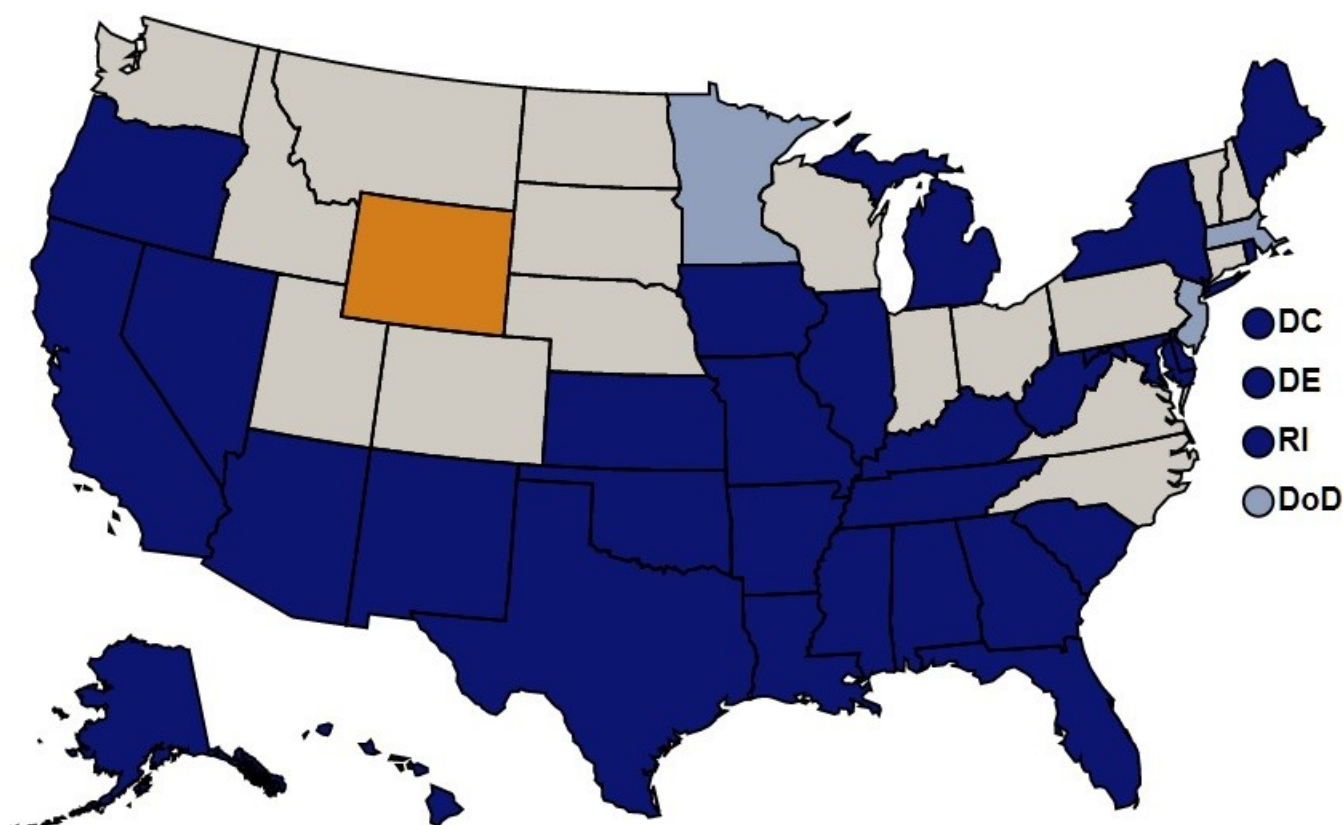


Grade 8 Report

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 2019 mathematics assessment, Wyoming 8th graders had an average scale score that was reliably higher than in Alabama, Alaska, Arizona, Arkansas, California, District of Columbia, Delaware, Florida, Georgia, Hawaii, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Mississippi, Missouri, Nevada, New Mexico, New York, Oklahoma, Oregon, Puerto Rico, Rhode Island, South Carolina, Tennessee, Texas and West Virginia.
- ▶ Wyoming 8th graders had an average scale score that was not statistically different from students in Colorado, Connecticut, Idaho, Indiana, Montana, Nebraska, New Hampshire, North Carolina, North Dakota, Ohio, Pennsylvania, South Dakota, Utah, Vermont, 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, and New Jersey.

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/educators/assessment/naep>.

Wyoming Mathematics 2019

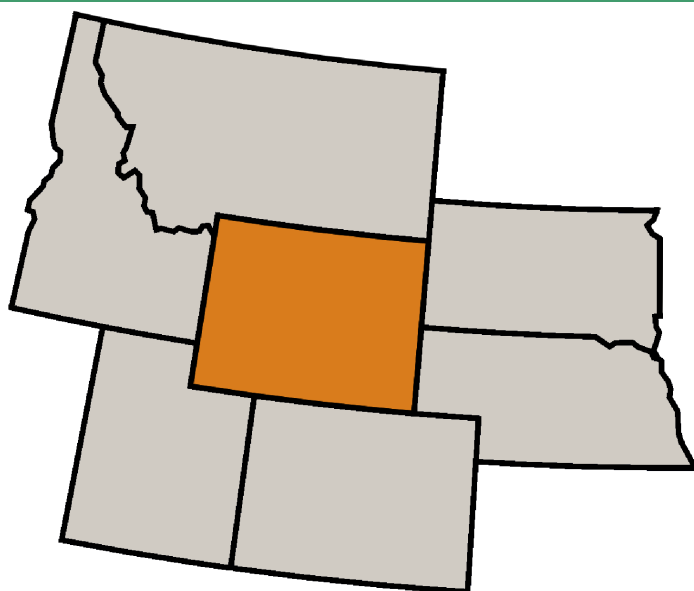


Grade 8 Report

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

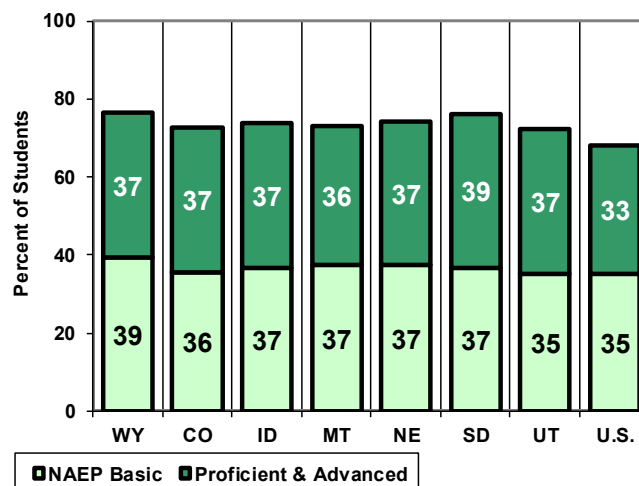


Legend: Wyoming is the focal state. States in beige were not statistically different from Wyoming.

- ▶ In 2019, the average mathematics scale score for 8th grade students in Wyoming was 286; this was reliably higher than the national average (281).
- ▶ Wyoming eighth graders had an average mathematics scale score in 2019 that was not statistically different from Colorado, Idaho, Montana, Nebraska, South Dakota or Utah.

Achievement Levels

- ▶ Seventy-six (76) percent of Wyoming's 8th graders scored at or above *Basic* on the 2019 mathematics assessment. This was higher than the nation's 68%
- ▶ The percentage of Wyoming's 8th graders scoring at or above *Basic* on mathematics in 2019 was not reliably different from Colorado, Idaho, Montana, Nebraska, South Dakota or Utah.



Wyoming Mathematics 2019

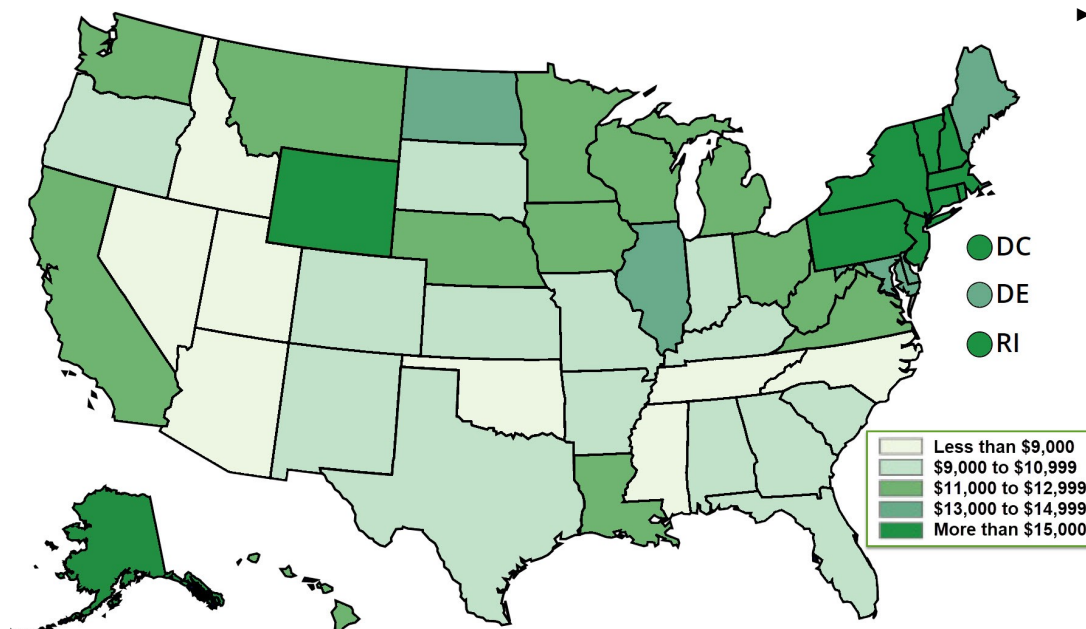


Grade 8 Report

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 2015-2016



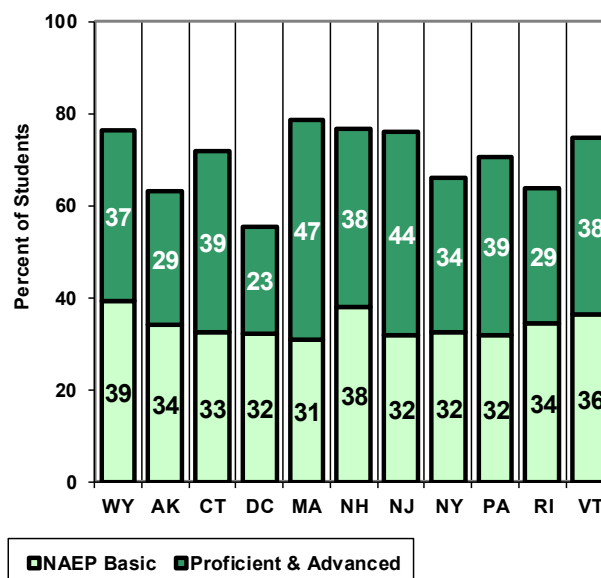
► Wyoming was one of eleven jurisdictions spending over \$15,000 per student during the 2015-2016 school year. Jurisdictions also at this spending level: Alaska, Connecticut, DC, Massachusetts, New Jersey, New York, New Hampshire, Pennsylvania, Rhode Island, and Vermont.

NOTE: Current expenditures include instruction, instruction-related, support services, and other elementary/secondary expenditures, but exclude expenditures on capital outlay, other programs, and interest on long term debt. Interscholar transactions are excluded to prevent double-counting.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "National Public Education Financial Survey (NPEFS)," fiscal year 2016, First Look.

Achievement Levels

- Seventy-six (76) percent of Wyoming 8th graders scored at or above *Basic* on the 2019 mathematics assessment. This was higher than the nation's 68 percent.
- Wyoming had a higher percentage of 8th graders scoring at or above *Basic* on the 2019 mathematics assessment than Alaska, Connecticut, District of Columbia, New York, Pennsylvania and Rhode Island i.e., states with similar per student expenditures.
- The percentage of Wyoming eighth grade students performing at or above *Basic* on the 2019 assessment was not reliably different from Massachusetts, New Hampshire, New Jersey, and Vermont.

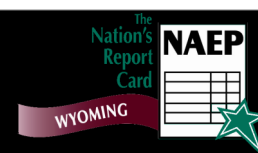


Results are based on statistical tests which take into account the variability of NAEP sampling.

For additional results and more information about Wyoming NAEP, please visit:

<http://edu.wyoming.gov/educators/assessment/naep>.

Wyoming Mathematics 2019



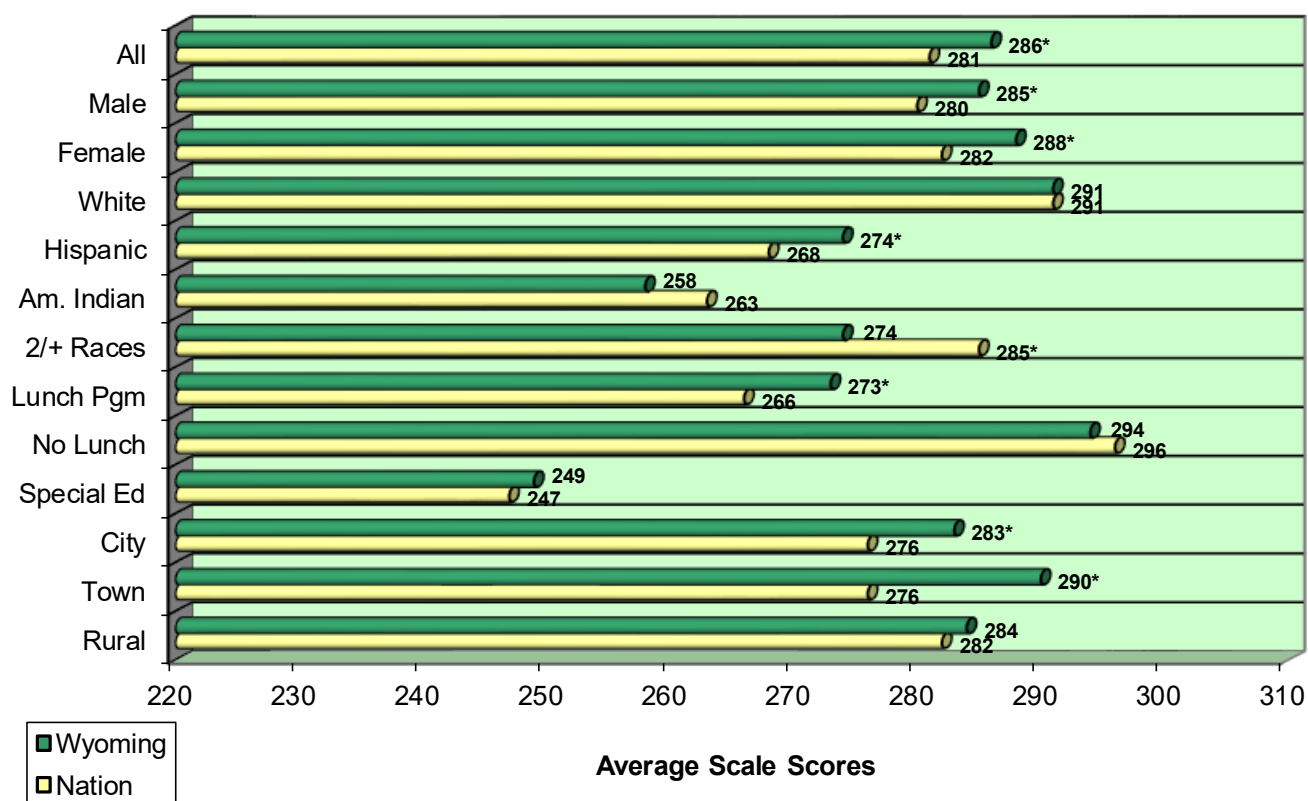
Grade 8 Report

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 2019, Wyoming eighth graders' average scale score in mathematics was higher than students nationally;

Wyoming also had higher results students in six 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) and students in city or town schools (as defined by the US Census Bureau).

- Wyoming Non-eligible students (i.e., students *not* qualifying for free or reduced price meals from the National School Lunch Program) and students of two or more races had average scale scores in mathematics that were lower than their peers nationally.
- Wyoming White eighth graders, Native American students and Special Education students and students in rural schools had average scale scores in mathematics that were not reliably different from their peers nationally.

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/educators/assessment/naep>.

Wyoming Mathematics 2019

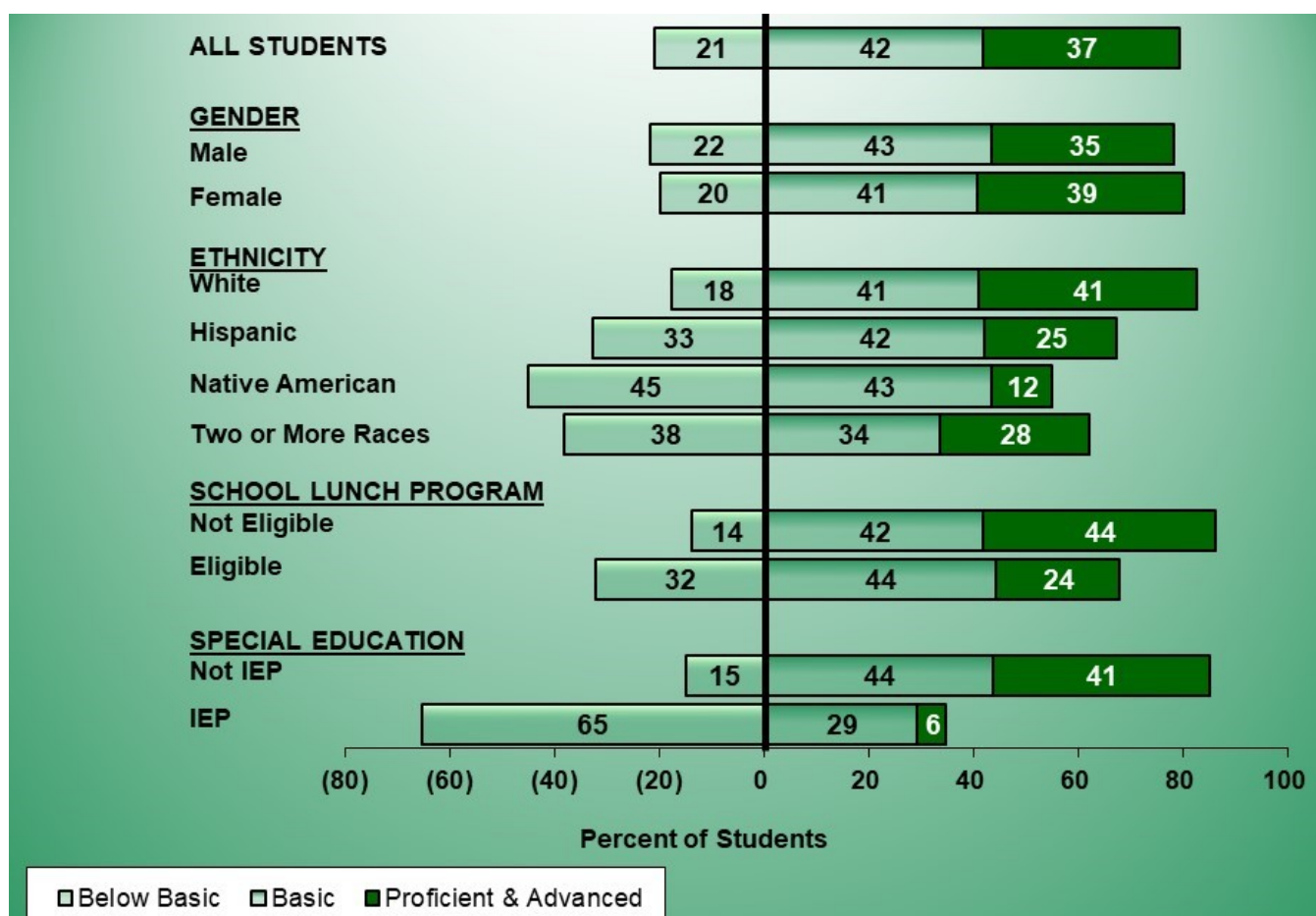


Grade 8 Report

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 2019 mathematics assessment, the proportion of eighth grade female students in Wyoming scoring at or above *Basic* (80 percent) was not reliably different than male students (78 percent).
- ▶ The proportion of eighth grade Hispanic (67 percent), Native American (55 percent) and Two or More Race (62 percent) students in Wyoming scoring at or above *Basic* was lower than their White peers (82 percent).
- ▶ Wyoming eighth graders qualifying for free or reduced price meals in the School Lunch Program and scoring at or above *Basic* (68 percent) was lower than students not eligible for the program (86 percent).
- ▶ Special education students scoring at or above *Basic* (35 percent) was lower than general education students (85 percent).
- ▶ Sampling was not sufficient to permit reporting of mathematics performance for grade eight Asian or Black students English Language Learners in Wyoming.

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/educators/assessment/naep>