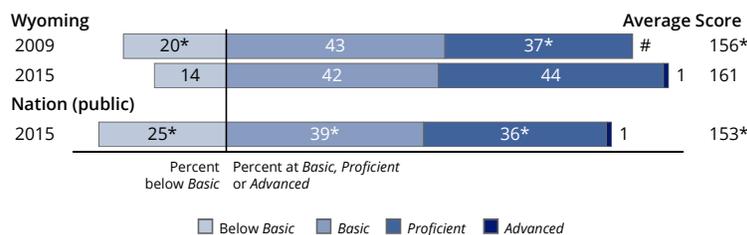


Overall Results

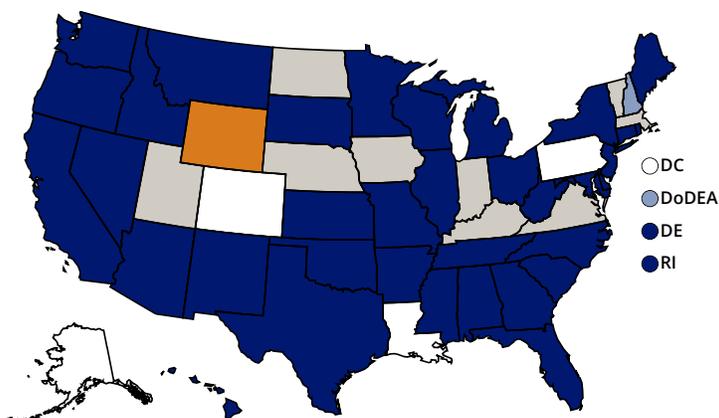
- In 2015, the average score of fourth-grade students in Wyoming was 161. This was higher than the average score of 153 for public school students in the nation.
- The average score for students in Wyoming in 2015 (161) was higher than their average score in 2009 (156).
- The percentage of students in Wyoming who performed at or above the NAEP *Proficient* level was 45 percent in 2015. This percentage was greater than that in 2009 (37 percent).
- The percentage of students in Wyoming who performed at or above the NAEP *Basic* level was 86 percent in 2015. This percentage was greater than that in 2009 (80 percent).

Achievement-Level Percentages and Average Score Results



Rounds to zero.
* Significantly different ($p < .05$) from state's results in 2015. Significance tests were performed using unrounded numbers.
NOTE: Detail may not sum to totals because of rounding.

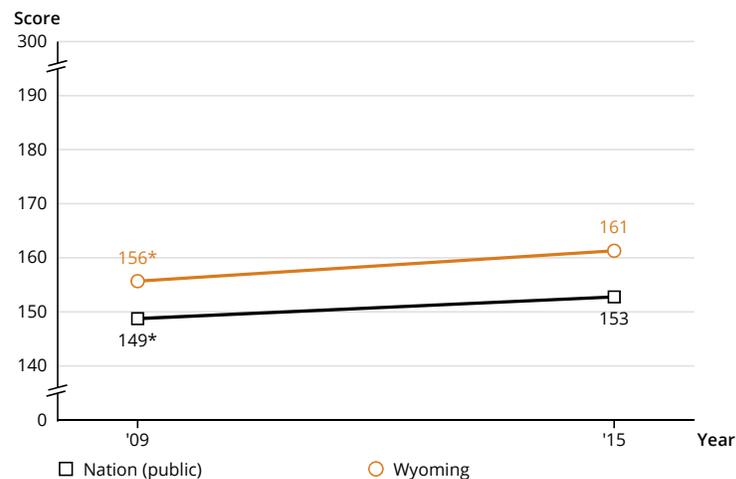
Compare the Average Score in 2015 to Other States/Jurisdictions



- In 2015, the average score in Wyoming (161) was
 - lower than those in 2 states/jurisdictions
 - higher than those in 35 states/jurisdictions
 - not significantly different from those in 9 states/jurisdictions
- 5 states/jurisdictions did not participate in 2015

DoDEA = Department of Defense Education Activity (overseas and domestic schools)

Average Scores for State/Jurisdiction and Nation (public)



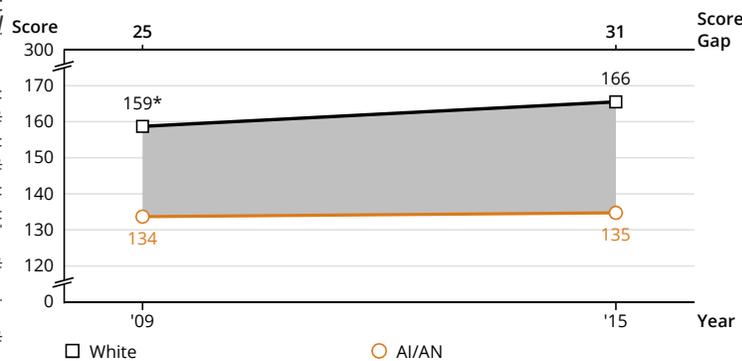
* Significantly different ($p < .05$) from 2015. Significance tests were performed using unrounded numbers.

Results for Student Groups in 2015

Reporting Groups	Percentage of students	Avg. score	Percentage at or above Basic	Percentage at or above Proficient	Percentage at Advanced
Race/Ethnicity					
White	77	166	90	51	1
Black	1	‡	‡	‡	‡
Hispanic	15	147	75	23	#
Asian	1	‡	‡	‡	‡
American Indian/Alaska Native	4	135	55	14	#
Native Hawaiian/Pacific Islander	#	‡	‡	‡	‡
Two or more races	2	‡	‡	‡	‡
Gender					
Male	50	162	87	47	#
Female	50	160	86	43	1
National School Lunch Program					
Eligible	40	151	77	30	#
Not eligible	59	168	93	54	1

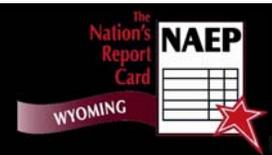
Rounds to zero.
‡ Reporting standards not met.
NOTE: Detail may not sum to totals because of rounding, and because the "Information not available" category for the National School Lunch Program, which provides free/reduced-price lunches, is not displayed. Black includes African American and Hispanic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

White - American Indian/Alaska Native (AI/AN) Score Gap



* Significantly different ($p < .05$) from 2015. Significance tests were performed using unrounded numbers.

Wyoming Science 2015

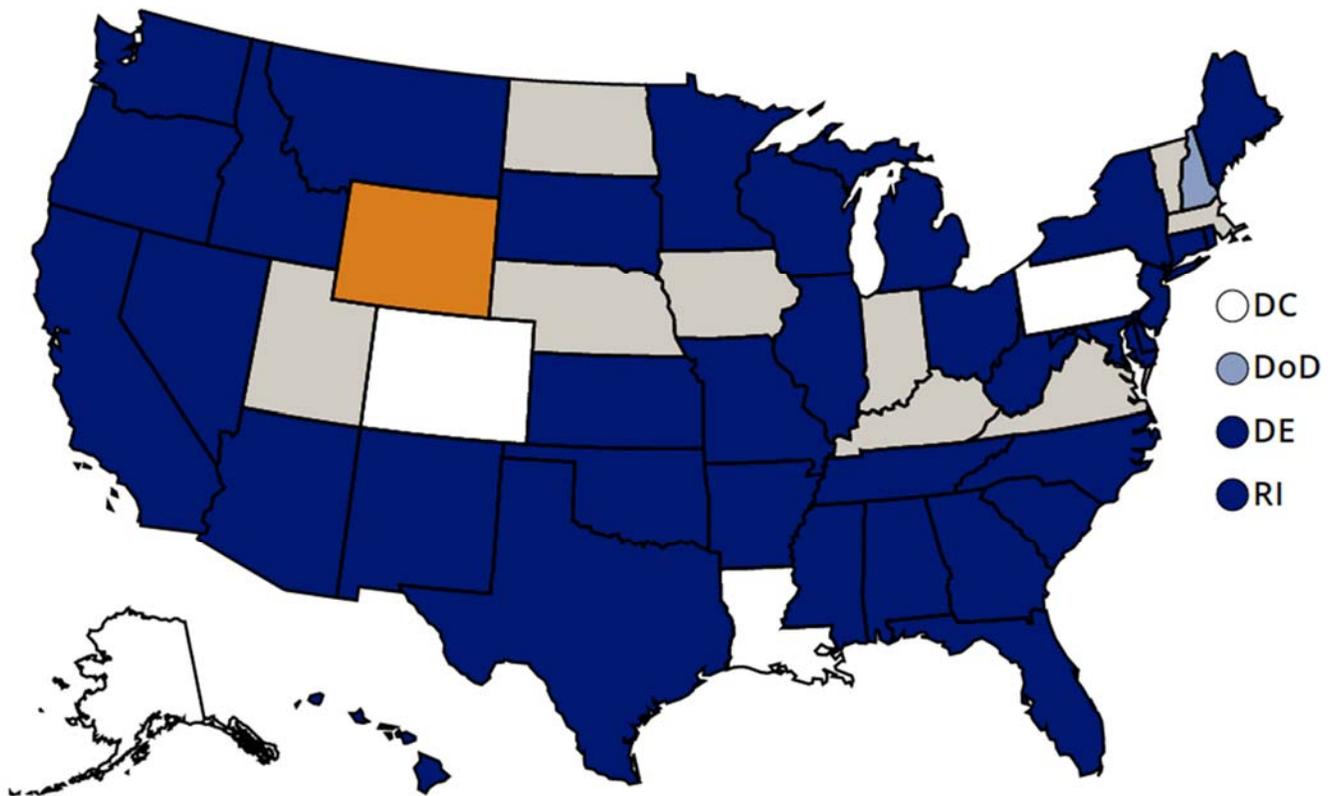


Grade 4 Report

National Snapshot

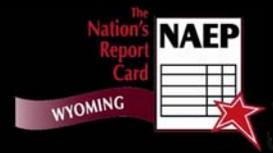
The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess fourth graders' skills in three science areas: Physical Science, Life Science, Earth and Space Science. Scale scores range from 0 to 300, wherein a 131 denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 167 reflects *Proficient* results which means competency on challenging material, and 224 is considered to be *Advanced*.

Wyoming and the Nation — Grade 4 Science Scale Scores



- ▶ On the 2015 science assessment, Wyoming 4th graders had an average scale score that was reliably higher than students in Alabama, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Kansas, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Mexico, New Jersey, New York, North Carolina, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Washington, West Virginia, and Wisconsin. Wyoming students also scored higher than the national public school average.
- ▶ Wyoming 4th graders had an average scale score that was not statistically different from students in Iowa, Indiana, Kentucky, Massachusetts, Nebraska, North Dakota, Utah, Vermont and Virginia.
- ▶ Wyoming 4th graders had an average scale score that was reliably lower than that of students in Department of Defense Schools and New Hampshire.
- ▶ Grade four students in Alaska, Colorado, District of Columbia, Louisiana and Pennsylvania did not participate in the 2015 NAEP science assessment.

Wyoming Science 2015

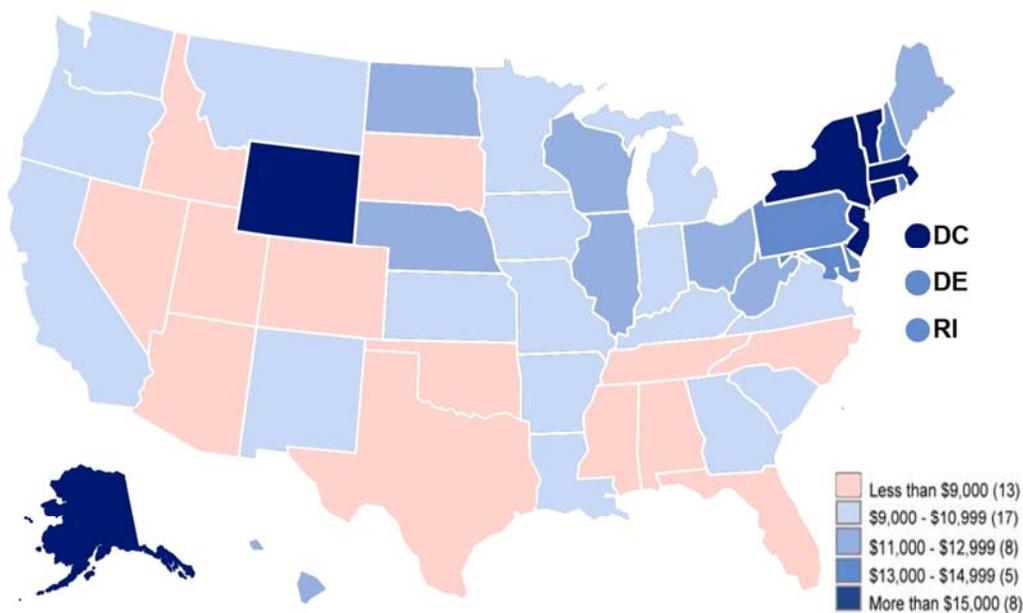


Grade 4 Report

Funding Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess fourth graders' skills in three science areas: Physical Science, Life Science, Earth and Space Science. Scale scores range from 0 to 300, wherein a 131 denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 167 reflects *Proficient* results which means competency on challenging material, and 224 is considered to be *Advanced*.

Per Capita Student Expenditures During Fiscal 2013



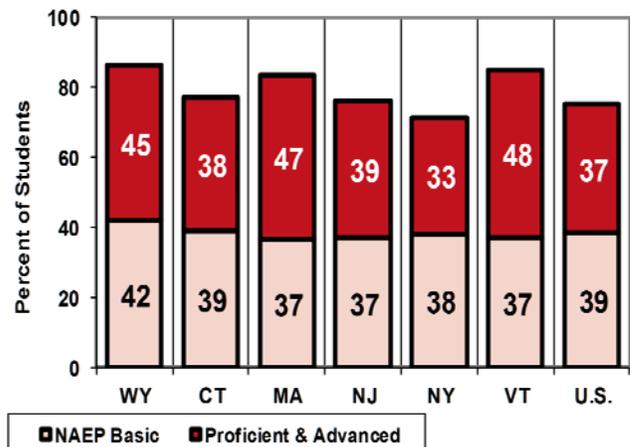
- ▶ Wyoming was one of eight jurisdictions spending over \$15,000 per student during the 2012-2013 school year. Jurisdictions* also at this spending level: Alaska, Connecticut, DC, Massachusetts, New Jersey, New York and Vermont.

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. Interschool 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 2013, Provisional Version 1a.

Achievement Levels

- ▶ Eighty-six (86) percent of Wyoming 4th graders scored *At or Above Basic* on the 2015 science assessment. This was higher than the nation's 75 percent.
- ▶ Two jurisdictions* (Alaska and DC) had similar per capita educational spending in FY13, but did not participate in 2015 NAEP science testing, i.e., and do not have current results.
- ▶ Wyoming also had a higher percentage of 4th graders scoring *At or Above Basic* than Connecticut, New Jersey and New York—states with similar per-student expenditures.
- ▶ The percentage of Wyoming 4th graders scoring *At or Above Basic* was not reliably different from peer expenditure states Massachusetts 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:

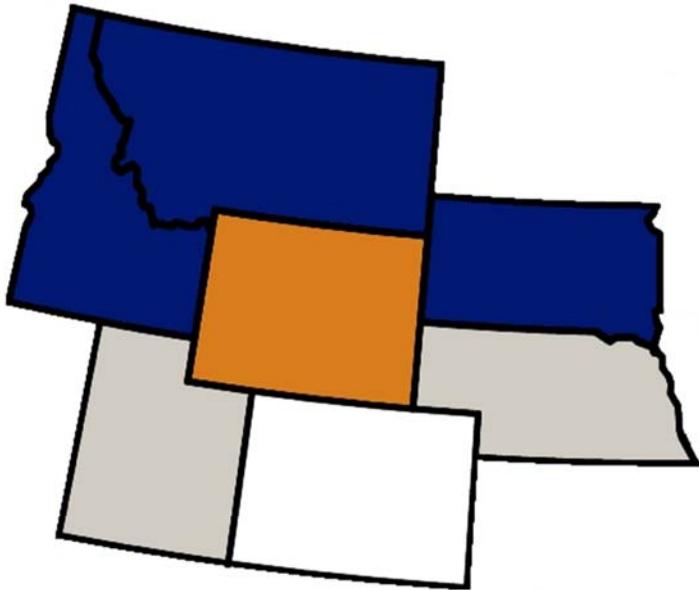
<https://edu.wyoming.gov/educators/state-assessment/naep/>

Grade 4 Report

Regional Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess fourth graders' skills in three science areas: Physical Science, Life Science, Earth and Space Science. Scale scores range from 0 to 300, wherein a 131 denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 167 reflects *Proficient* results which means competency on challenging material, and 224 is considered to be *Advanced*.

Average Scale Scores

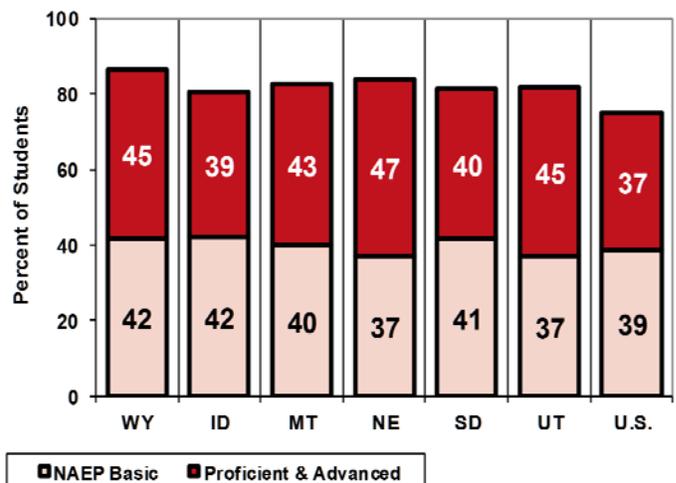


- ▶ In 2015, the average science scale score for 4th grade students in Wyoming was 161; this was reliably higher than the national average (153).
- ▶ Wyoming 4th graders also had a higher average science scale score in 2015 than students in Idaho, Montana and South Dakota.
- ▶ Wyoming 4th grade average science scale score in 2015 that was not statistically different from Nebraska or Utah.
- ▶ Colorado did not participate in the 2015 NAEP science assessment.

Legend: Wyoming is the focal state.
States in dark blue scored reliably lower than Wyoming. Scores in gray states were not reliably different than Wyoming. Colorado did not participate in the 2015 NAEP science assessment.

Achievement Levels

- ▶ Eighty-six (86) percent of Wyoming's 4th graders scored at or above *Basic* on the 2015 science assessment. This was reliably higher than the nation's 75 percent.
- ▶ Wyoming also had a higher percentage of 4th graders scoring at or above *Basic* on the 2015 science assessment than Idaho, Montana, South Dakota and Utah .
- ▶ The percentage of Wyoming's 4th graders scoring *At or Above Basic* on science in 2015 was not reliably different from Nebraska.
- ▶ Colorado did not participate in the 2015 NAEP science assessment.



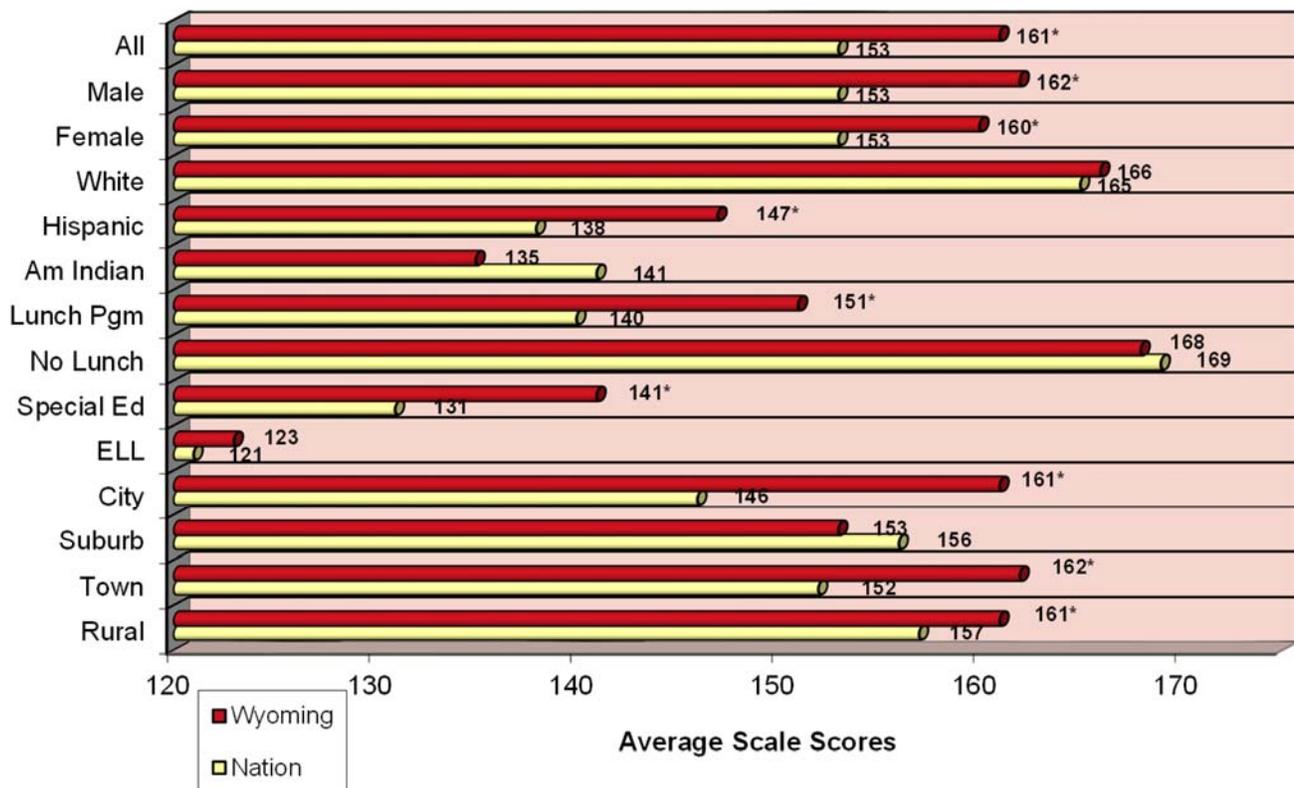
Grade 4 Report

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' skills in three science areas: Physical Science, Life Science, Earth and Space Science. Scale scores range from 0 to 300, wherein a 131 denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 167 reflects *Proficient* results which means competency on challenging material, and 224 is considered to be *Advanced*.

Student Group Comparisons

Wyoming and National Results



► In 2015, Wyoming fourth graders' scale scores in science were above the national average.

Wyoming also had higher results in eight student groups: 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, students in city, town and rural schools (as defined by the Census Bureau).

► However fourth grade scores were not reliably different in Wyoming from the rest of the nation in two of the state's largest and more advantaged students groups:

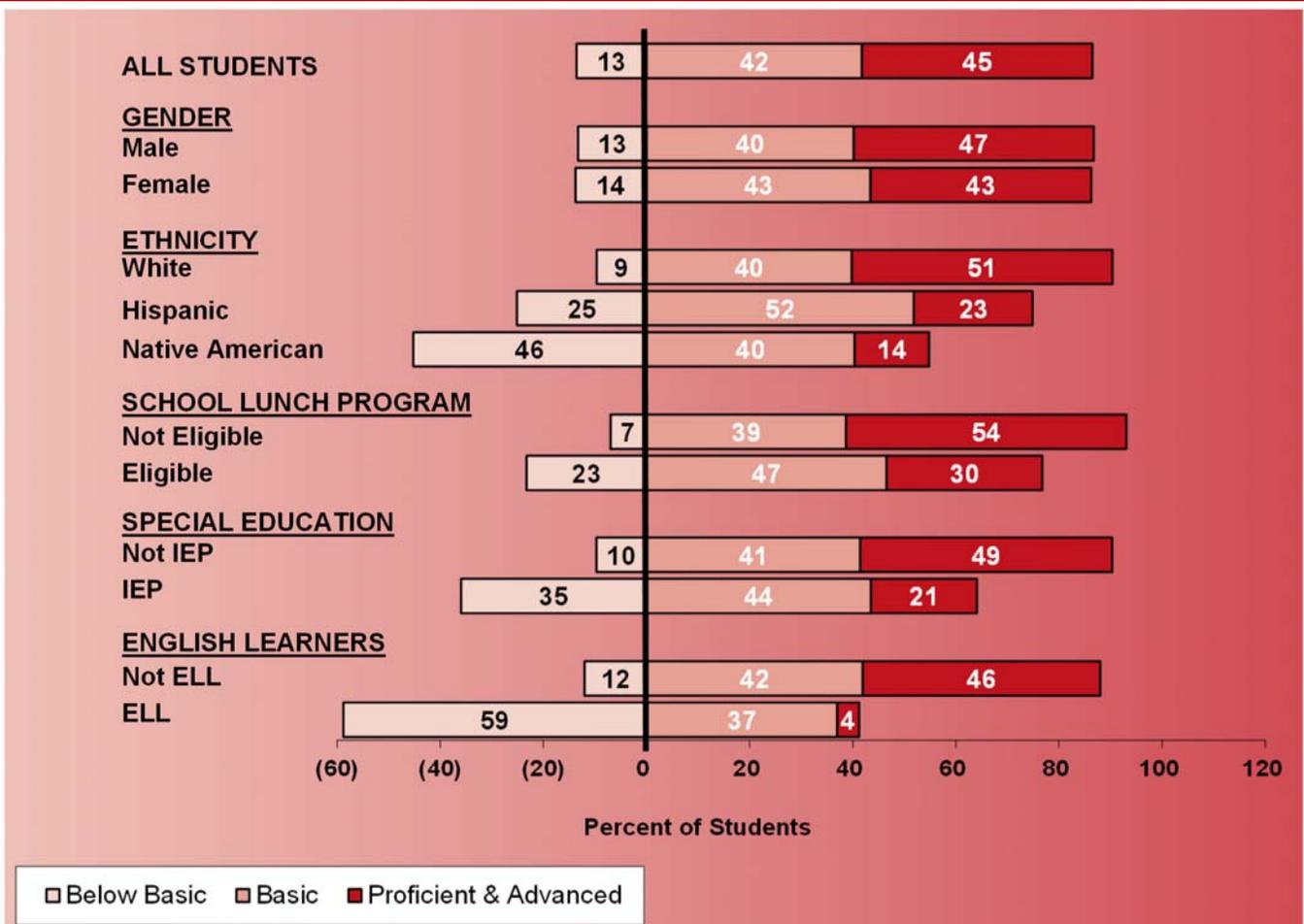
White students (77% of Wyoming's 4th graders) and students from more affluent homes (i.e., those students *Not* qualifying for free or reduced price meals from the National School Lunch Program—59% of Wyoming's 4th graders).

Grade 4 Report

Student Groups Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess fourth graders' skills in three science areas: Physical Science, Life Science, Earth and Space Science. Scale scores range from 0 to 300, wherein a 131 denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 167 reflects *Proficient* results which means competency on challenging material, and 224 is considered to be *Advanced*.

Student Groups in Wyoming



- ▶ On the NAEP 2015 science assessment, the proportion of fourth grade female students in Wyoming scoring at or above *Basic* (86 percent) was *not* reliably different than male students (87 percent).
- ▶ The proportion of fourth grade Hispanic (75 percent) and Native American (54 percent) students in Wyoming scoring at or above *Basic* was lower than White students (91 percent). Sampling was not sufficient to permit reporting of science performance for fourth grade Asian and Black students.
- ▶ Wyoming fourth graders qualifying for free or reduced price meals in the School Lunch Program and scoring at or above *Basic* (77 percent) was lower than students not eligible for the program (93 percent).
- ▶ Special education students scoring at or above *Basic* (65 percent) was lower than general education students (90 percent).
- ▶ ELL students scoring at or above *Basic* (41 percent) was lower than non-English learners (88 percent).