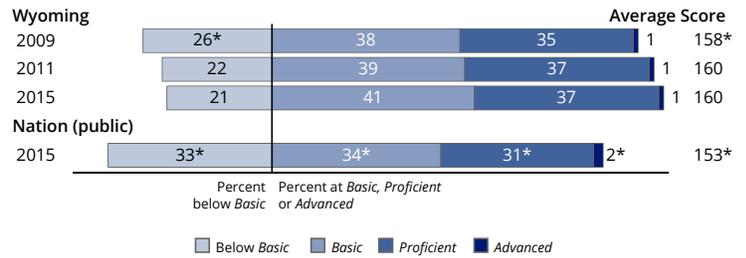


Overall Results

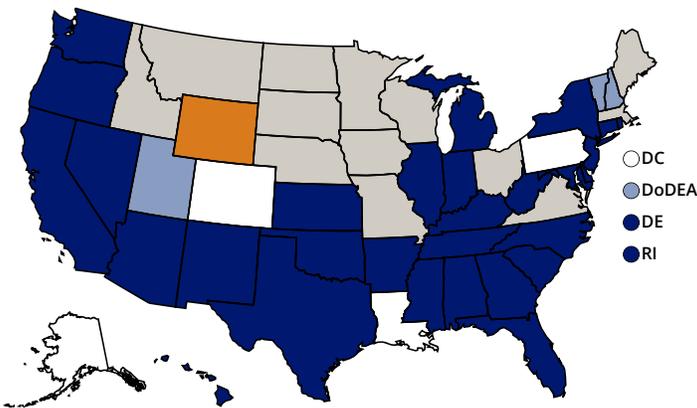
- In 2015, the average score of eighth-grade students in Wyoming was 160. This was higher than the average score of 153 for public school students in the nation.
- The average score for students in Wyoming in 2015 (160) was not significantly different from their average score in 2011 (160) and was higher than their average score in 2009 (158).
- The percentage of students in Wyoming who performed at or above the NAEP *Proficient* level was 38 percent in 2015. This percentage was not significantly different from that in 2011 (38 percent) and in 2009 (36 percent).
- The percentage of students in Wyoming who performed at or above the NAEP *Basic* level was 79 percent in 2015. This percentage was not significantly different from that in 2011 (78 percent) and was greater than that in 2009 (74 percent).

Achievement-Level Percentages and Average Score Results



* 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



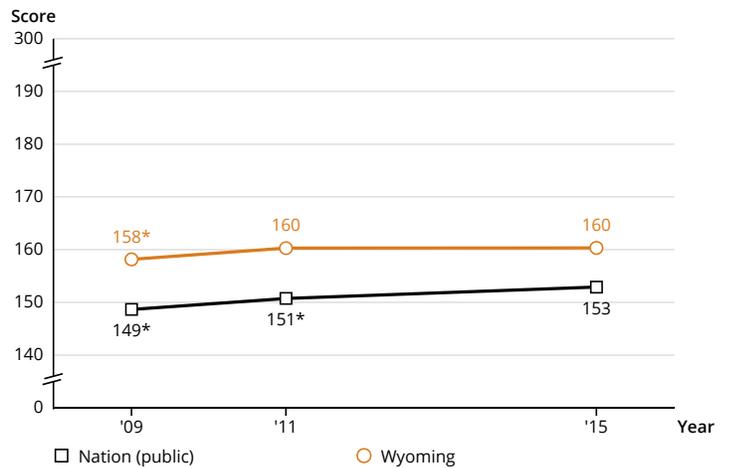
In 2015, the average score in Wyoming (160) was

- lower than those in 4 states/jurisdictions
- higher than those in 29 states/jurisdictions
- not significantly different from those in 13 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

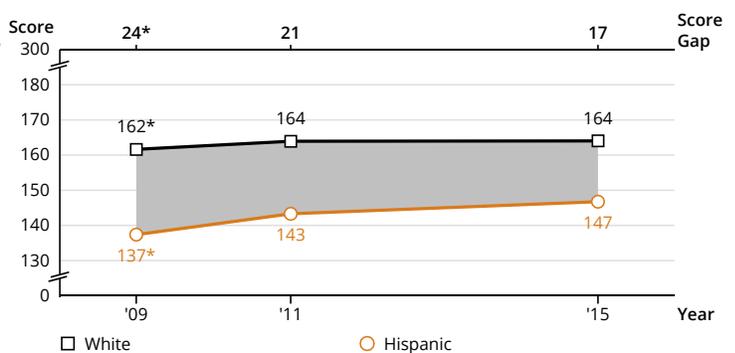
Reporting Groups	Percentage of students	Avg. score	Percentage at or above Basic	Percentage at or above Proficient	Percentage at Advanced
Race/Ethnicity					
White	79	164	84	43	1
Black	1	‡	‡	‡	‡
Hispanic	14	147	59	18	#
Asian	1	‡	‡	‡	‡
American Indian/Alaska Native	3	‡	‡	‡	‡
Native Hawaiian/Pacific Islander	#	‡	‡	‡	‡
Two or more races	2	‡	‡	‡	‡
Gender					
Male	52	161	79	41	1
Female	48	159	79	34	1
National School Lunch Program					
Eligible	37	151	67	25	#
Not eligible	62	166	86	45	1

Rounds to zero.

‡ Reporting standards not met.

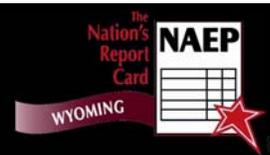
NOTE: Detail may not sum to totals because of rounding, and because the "Information not available" category for the National School Lunch Program, which provides free/reduced-price lunches, is not displayed. Black includes African American and Hispanic includes Latino. Race categories exclude Hispanic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

White - Hispanic Score Gap



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

Wyoming Science 2015

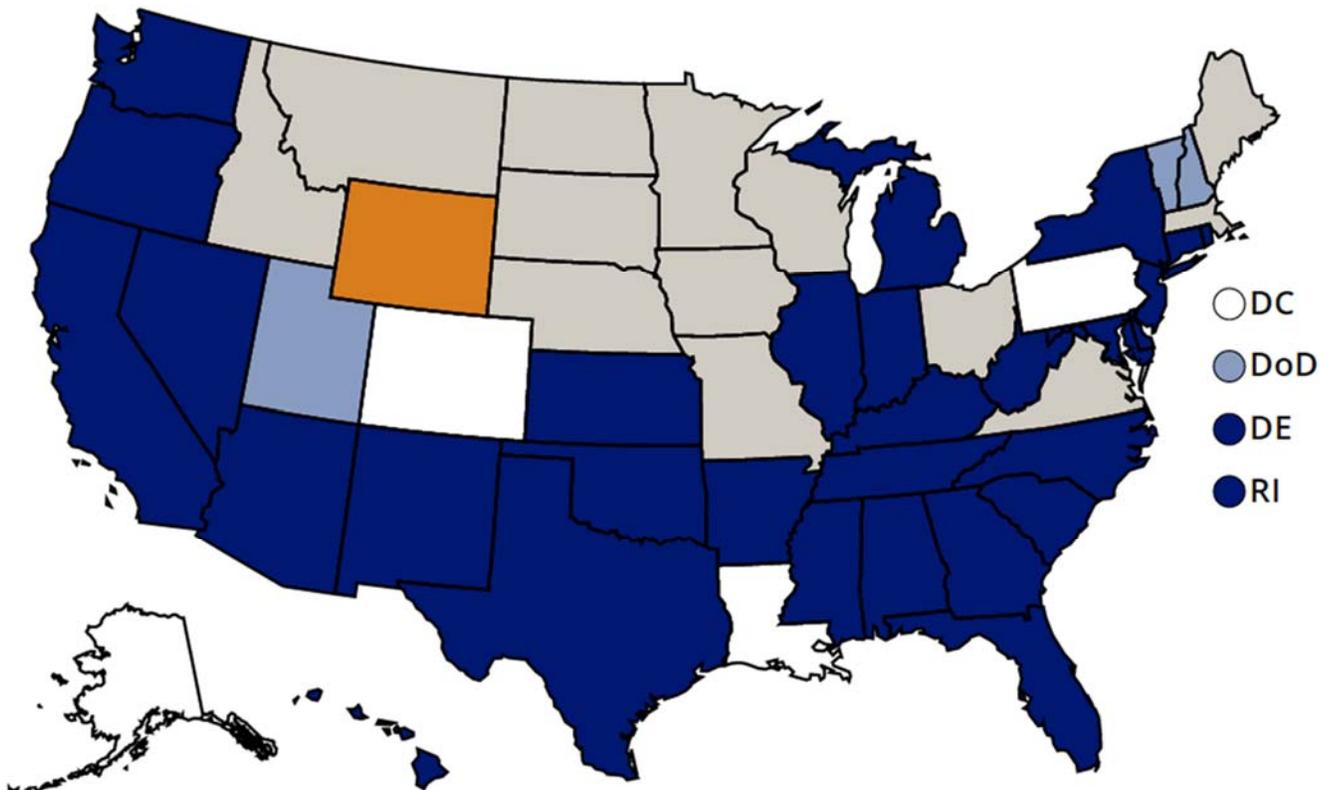


Grade 8 Report

National Snapshot

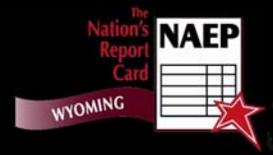
The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess eighth graders' skills in three science areas: Physical Science, Life Science, Earth and Space Science. Scale scores range from 0 to 300, wherein a 141 denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 170 reflects *Proficient* results which means competency on challenging material, and 215 is considered to be *Advanced*.

Wyoming and the Nation — Grade 8 Science Scale Scores



- ▶ On the 2015 science assessment, Wyoming 8th graders had an average scale score that was reliably higher than students in Alabama, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Hawaii, Illinois, Indiana, Kansas, Kentucky, Maryland, Michigan, Mississippi, Nevada, New Mexico, New Jersey, New York, North Carolina, Oklahoma, Oregon, Rhode Island, South Carolina, Tennessee, Texas, Washington, and West Virginia. Wyoming students scored higher than the national public school average.
- ▶ Wyoming 8th graders had an average scale score that was not statistically different from students in Idaho, Iowa, Maine, Massachusetts, Minnesota, Missouri, Montana, Nebraska, North Dakota, South Dakota, Ohio, Virginia and Wisconsin.
- ▶ Wyoming 8th graders had an average scale score that was reliably lower than students in Department of Defense Schools, New Hampshire, Utah and Vermont.
- ▶ Grade eight students in Alaska, Colorado, District of Columbia, Louisiana and Pennsylvania did not participate in the 2015 NAEP science assessment.

Wyoming Science 2015

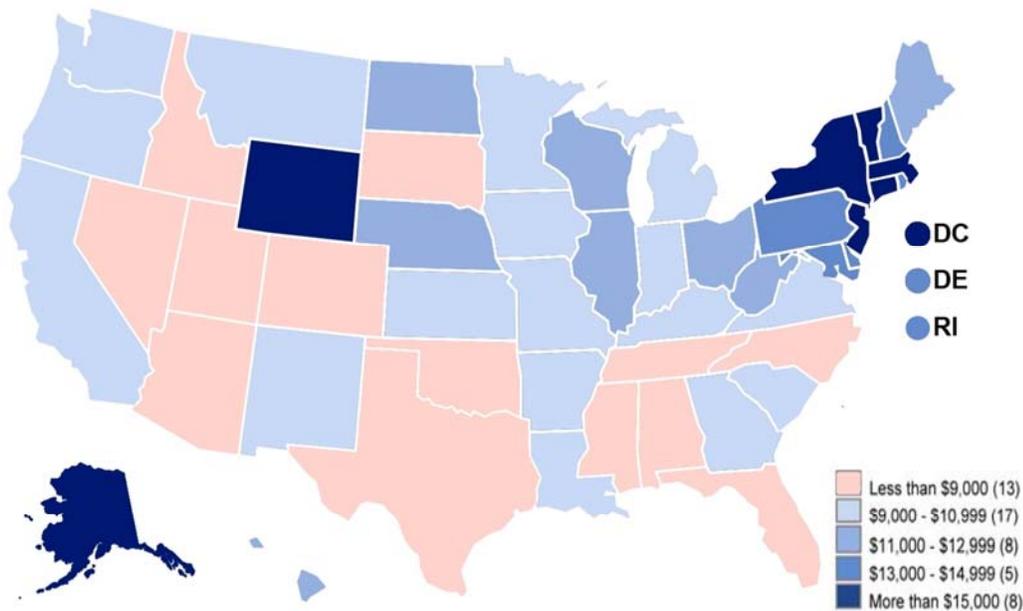


Grade 8 Report

Funding Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess eighth graders' skills in three science areas: Physical Science, Life Science, Earth and Space Science. Scale scores range from 0 to 300, wherein a 141 denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 170 reflects *Proficient* results which means competency on challenging material, and 215 is considered to be *Advanced*.

Per Capita Student Expenditures During Fiscal 2013



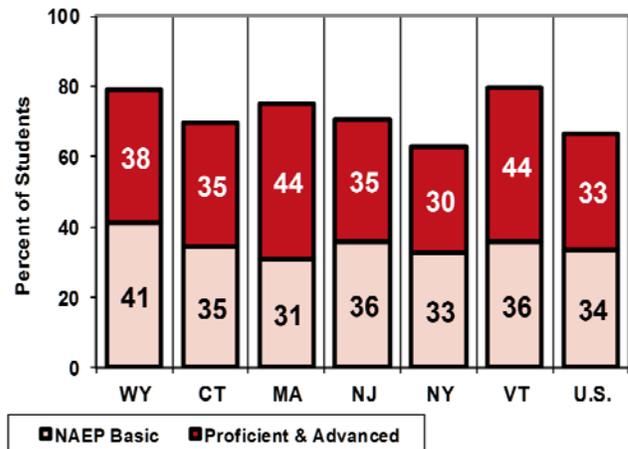
- ▶ Wyoming was one of eight jurisdictions spending over \$15,000 per student during the 2012-2013 school year. Jurisdictions* also at this spending level: Alaska, Connecticut, DC, Massachusetts, New Jersey, New York and Vermont.

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

- ▶ Seventy-nine (79) percent of Wyoming 8th graders scored *At or Above Basic* on the 2015 science assessment. This was higher than the nation's 67 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 8th graders scoring *At or Above Basic* than Connecticut, Massachusetts, New Jersey and New York—states with similar per-student expenditures.
- ▶ The percentage of Wyoming 8th graders scoring *At or Above Basic* was not reliably different from Vermont, a peer expenditure state.



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:

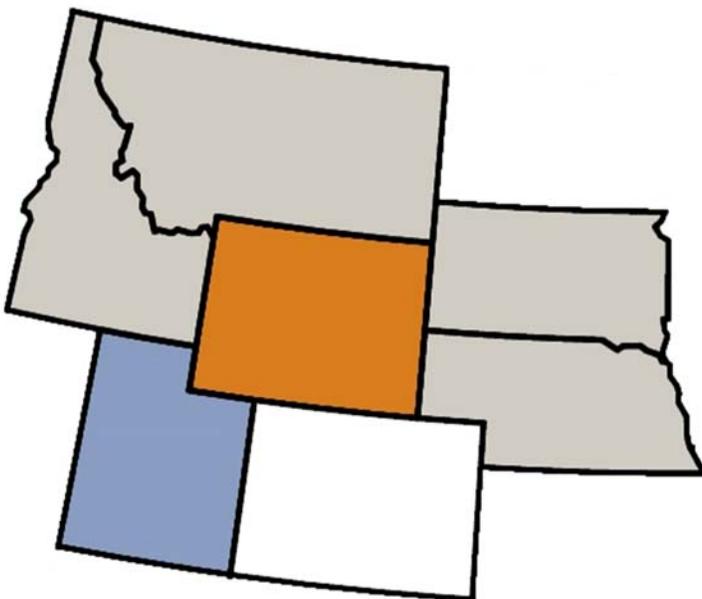
<https://edu.wyoming.gov/educators/state-assessment/naep/>

Grade 8 Report

Regional Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess eighth graders' skills in three science areas: Physical Science, Life Science, Earth and Space Science. Scale scores range from 0 to 300, wherein a 141 denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 170 reflects *Proficient* results which means competency on challenging material, and 215 is considered to be *Advanced*.

Average Scale Scores

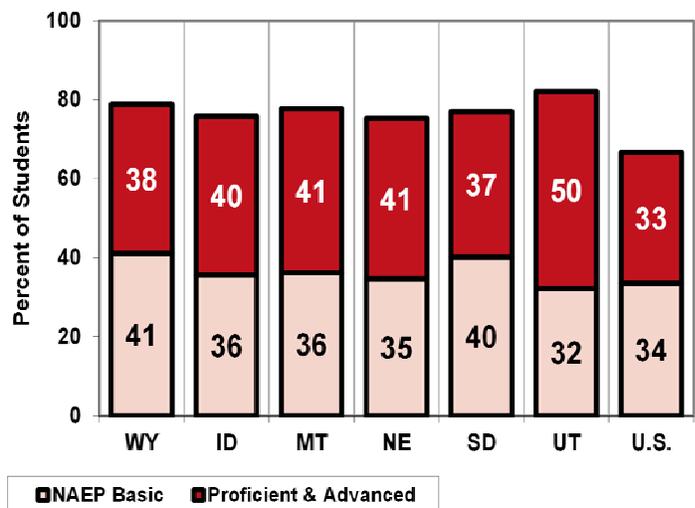


- ▶ In 2015, the average science scale score for 8th grade students in Wyoming was 160; this was reliably higher than the national average (153).
- ▶ Wyoming 8th grade average science scale score in 2015 that was not statistically different from Idaho, Montana, Nebraska and South Dakota.
- ▶ The average science scale score for 8th grade students in Wyoming was lower than scores in Utah.
- ▶ Colorado did not participate in the 2015 NAEP science assessment.

Legend: Wyoming is the focal state. States in grey scored were not reliably different than Wyoming. Utah was reliably higher than Wyoming. Colorado did not participate in the 2015 NAEP science assessment.

Achievement Levels

- ▶ Seventy-nine (79) percent of Wyoming's 8th graders scored at or above *Basic* on the 2015 science assessment. This was reliably higher than the nation's 67 percent.
- ▶ The percentage of Wyoming's 8th graders scoring *At or Above Basic* on science in 2015 was not reliably different from Idaho, Montana, Nebraska, South Dakota and Utah.
- ▶ Colorado did not participate in the 2015 NAEP science assessment.



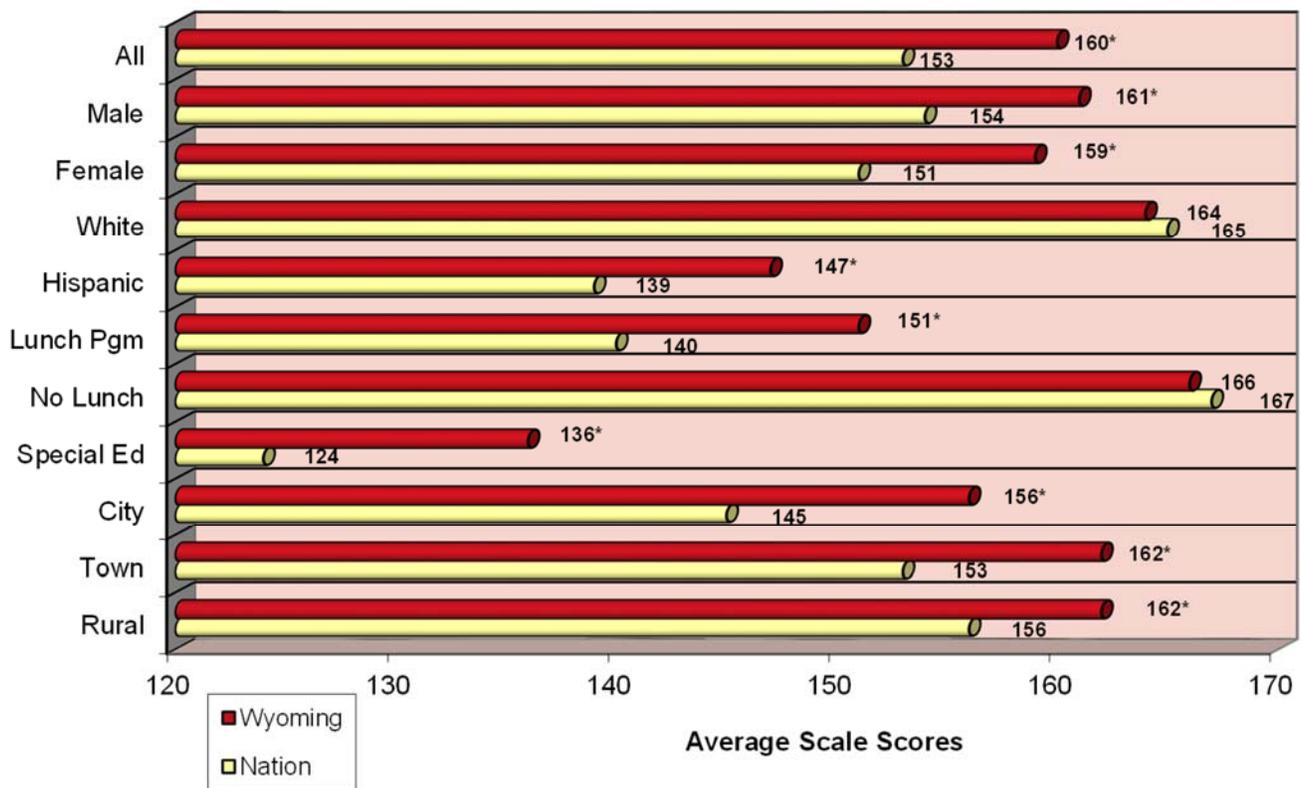
Grade 8 Report

WY-US Student Gaps Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess eighth graders’ skills in three science areas: Physical Science, Life Science, Earth and Space Science. Scale scores range from 0 to 300, wherein a 141 denotes NAEP’s *Basic* achievement benchmark (i.e., approximately a “grade level” performance); 170 reflects *Proficient* results which means competency on challenging material, and 215 is considered to be *Advanced*.

Student Group Comparisons

Wyoming and National Results



- In 2015, Wyoming eighth 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, eighth grade average science scale 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:

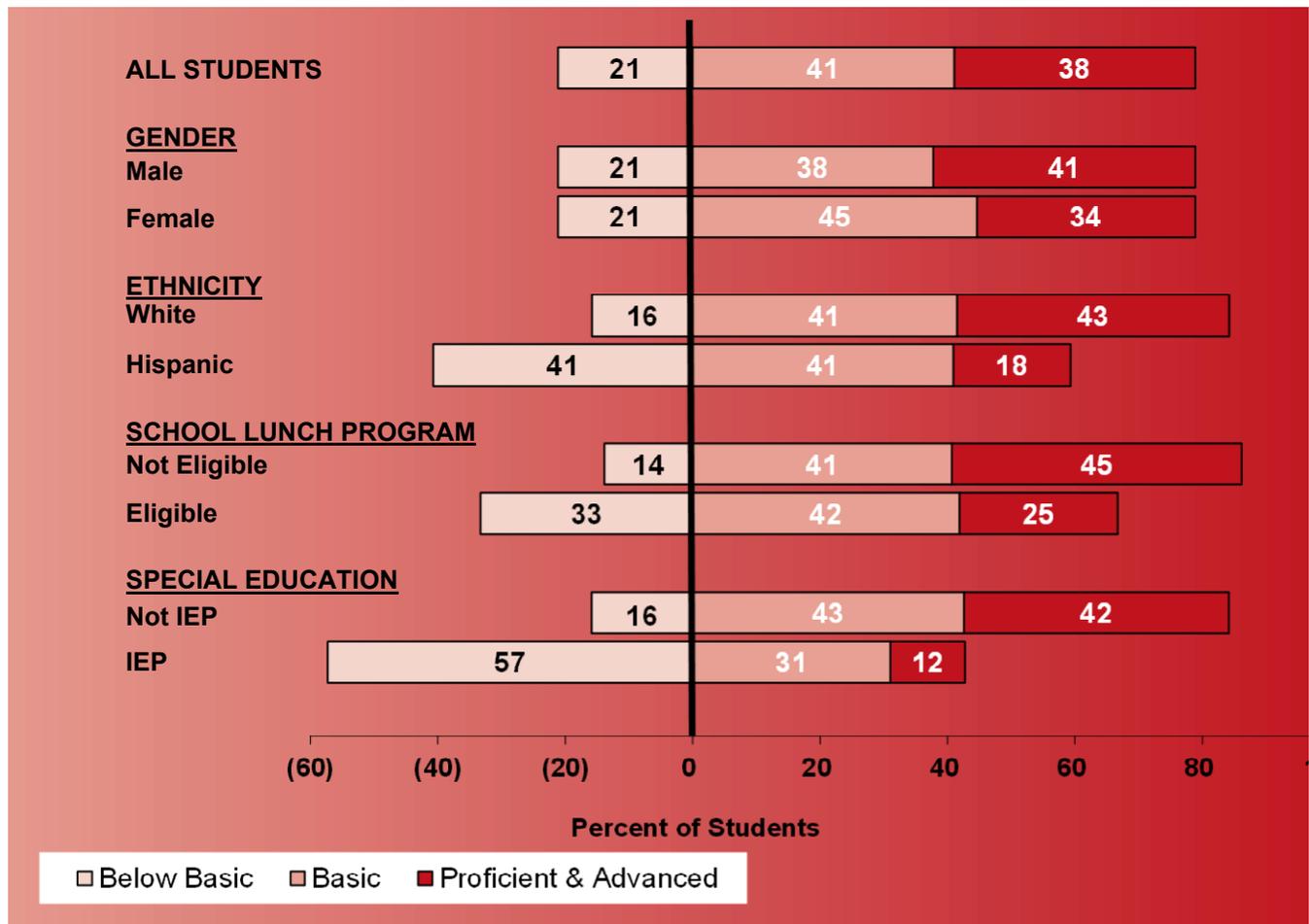
White students (79% of Wyoming’s 8th graders) and students from more affluent home (i.e., those students *Not* qualifying for free or reduced price meals from the National School Lunch Program—62% of Wyoming’s 8th graders).

Grade 8 Report

Student Groups Snapshot

The National Assessment of Educational Progress (NAEP) uses both multiple choice and constructed-response test items to assess eighth graders' skills in three science areas: Physical Science, Life Science, Earth and Space Science. Scale scores range from 0 to 300, wherein a 141 denotes NAEP's *Basic* achievement benchmark (i.e., approximately a "grade level" performance); 170 reflects *Proficient* results which means competency on challenging material, and 215 is considered to be *Advanced*.

Student Groups in Wyoming



- ▶ On the NAEP 2015 science assessment, the proportion of eighth grade female students in Wyoming scoring at or above *Basic* (79 percent) was *not* reliably different than male students (79 percent).
- ▶ The proportion of eighth grade Hispanic (59 percent) in Wyoming scoring at or above *Basic* was lower than White students (84 percent). Sampling was not sufficient to permit reporting of science performance for eighth grade Native American, 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* (67 percent) was lower than students not eligible for the program (86 percent).
- ▶ Special education students scoring at or above *Basic* (43 percent) was lower than general education students (84 percent).
- ▶ Sampling was not sufficient to permit reporting of science performance for eighth grade ELL students.