## 2015 Mathematics State Snapshot Report <br> Wyoming - Grade 8 - Public Schools

## Overall Results

- In 2015, the average score of eighth-grade students in Wyoming was 287. This was higher than the average score of 281 for public school students in the nation.
- The average score for students in Wyoming in 2015 (287) was not significantly different from their average score in 2013 (288) 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 35 percent in 2015. This percentage was not significantly different from that in 2013 (38 percent) and was greater than that in 2000 ( 23 percent).
- The percentage of students in Wyoming who performed at or above the NAEP Basic level was 78 percent in 2015. This percentage was not significantly different from that in 2013 (81 percent) and was greater than that in 2000 ( 69 percent).

Compare the Average Score in 2015 to Other States/Jurisdictions


In 2015, the average score in Wyoming (287) was
lower than those in 6 states/jurisdictions

- higher than those in 28 states/jurisdictions
not significantly different from those in 17 states/jurisdictions
DoDEA = Department of Defense Education Activity (overseas and domestic schools)

| Results for Student Groups in 2015 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage of | Avg. |  | entage at above | Percentage <br> at |
| Reporting Groups | students | score |  | Proficient | Advanced |
| Race/Ethnicity |  |  |  |  |  |
| White | 79 | 290 | 82 | 39 | 8 |
| Black | 1 | $\ddagger$ | $\ddagger$ | $\ddagger$ | $\ddagger$ |
| Hispanic | 14 | 273 | 65 | 18 | 2 |
| Asian | 1 | $\ddagger$ | $\ddagger$ | $\ddagger$ | $\ddagger$ |
| American Indian/Alaska Native | 3 | 251 | 37 | 6 | \# |
| Native Hawaiian/Pacific Islander | \# | $\ddagger$ | $\ddagger$ | \# | $\ddagger$ |
| Two or more races | 2 | $\ddagger$ | $\ddagger$ | $\ddagger$ | ま |
| Gender |  |  |  |  |  |
| Male | 52 | 286 | 77 | 35 | 7 |
| Female | 48 | 288 | 80 | 36 | 8 |
| National School Lunch Program |  |  |  |  |  |
| Eligible | 35 | 274 | 65 | 20 | 3 |
| Not eligible | 64 | 294 | 86 | 44 | 10 |

\# Rounds to zero.
$\ddagger$ 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.

## Achievement-Level Percentages and Average Score Results

| Wyoming 2000 |  |  |  | Average Score |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 31* | 45 | 20* | 3* | 276* |
| 2013 | 19 | 43 | 31 | 7 | 288 |
| 2015 | 22 | 43 | 28 | 7 | 287 |
| Nation (public) |  |  |  |  |  |
| 2015 | 30 | 38 | 24 | 8 | 281 |
|  | Percent Percent at Basic, Proficient below Basic or Advanced |  |  |  |  |
|  | Below Basic | asic | - | Advanced |  |

* 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.
Average Scores for State/Jurisdiction and Nation (public)

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


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## Wyoming <br> Mathematics 2015

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## 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 2011-2012



## Achievement Levels

- Seventy-eight (78) percent of Wyoming 8th graders scored at or above Basic on the 2015 mathematics assessment. This was higher than the nation's 70 percent.
- Wyoming had a higher percentage of 8th graders scoring at or above Basic on the 2015 mathematics assessment than Alaska, Connecticut, District of Columbia, New York, 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 2015 assessment was not reliably different from New Jersey and Vermont.



## Wyoming <br> Mathematics 2015

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Average Scale Scores


- In 2015, the average mathematics scale score for 8th grade students in Wyoming was 287; this was reliably higher than the national average (281).
- Wyoming 8th graders had a higher average mathematics scale score in 2015 than their peers in Idaho.
- Wyoming eighth graders had an average mathematics scale score in 2015 that was not statistically different from Colorado, Montana, Nebraska, South Dakota or Utah.

Legend: Wyoming is the focal state. States in white were not statistically different from Wyoming. State in dark blue scored reliably lower than Wyoming.

## Achievement Levels

- Seventy-eight (78) percent of Wyoming's 8th graders scored at or above Basic on the 2015 mathematics assessment. This was higher than the nation's $70 \%$
- Wyoming had a higher percentage of 8 th graders scoring at or above Basic on the 2015 mathematics assessment than Colorado and Idaho.
- The percentage of Wyoming's 8th graders scoring at or above Basic on mathematics in 2015 was not reliably different from Montana, Nebraska, South Dakota or Utah.



## Wyoming <br> Mathematics 2015

NAEP Card $\qquad$
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## 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 2015 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, Idaho, Illinois, Kentucky, Louisiana, Maryland, Michigan, Mississippi, Missouri, Nevada, New Mexico, New York, North Carolina, Oklahoma, Oregon, Rhode Island, South Carolina, Tennessee, and West Virginia.
- Wyoming 8th graders had an average scale score that was not statistically different from students in Colorado, Connecticut, Indiana, lowa, Kansas, Maine, Montana, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota, Texas, Utah, 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, and Vermont.


## Wyoming <br> Mathematics 2015

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## 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.


- On the NAEP 2015 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 ( 65 percent) and Native American ( 37 percent) students in Wyoming scoring at or above Basic was lower than their White peers ( 82 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 ( 64 percent) was lower than students not eligible for the program ( 87 percent).
- Special education students scoring at or above Basic (38 percent) was lower than general education students ( 85 percent).
- Sampling was not sufficient to permit reporting of reading performance for grade eight English Language Learners in Wyoming.


## Wyoming <br> Mathematics 2015

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## 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 2015, 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, 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 White eighth graders, Hispanic students, and Non-eligible students (i.e., students not qualifying for free or reduced price meals from the National School Lunch Program had average scale scores in mathematics that were not reliably different from the national results.
- Wyoming Native American students had average scale scores that were lower than their peers nationally.


[^0]:    * Significantly different ( $p<.05$ ) from 2015. Significance tests were performed using unrounded numbers.

