

Idaho vs. National Student Demographic Groups on NAEP 2013 Reading and Mathematics¹

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NAEP reports average scores for several demographic groups. Statistical comparisons for Idaho vs. national demographic scores on NAEP 2013 reading and mathematics (i.e., t test, 0.05 probability level, family size = two) were performed separately for each of nine student groups in grade 4 and in grade 8.

The groups included:

- All Students
- Male Students
- Female Students
- White Students
- Hispanic Students
- FRP Lunch Students = eligible for National School Lunch Program (NSLP)
- Not Eligible Students = not eligible for NSLP
- LEP Students = limited English proficiency (in US for at least one year)
- IEP Students = students with disability who have individual education plan

The statistical testing indicated whether Idaho student demographic groups performed higher than, lower than, or not significantly different from their peers in the nation's public schools.

Each of the next four pages is a data summary sheet presenting the results for one subject-grade analysis in graphic and narrative formats, e.g. reading grade 4, reading grade 8, mathematics grade 4, and mathematics grade 8.

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National Assessment of Educational Progress in Idaho

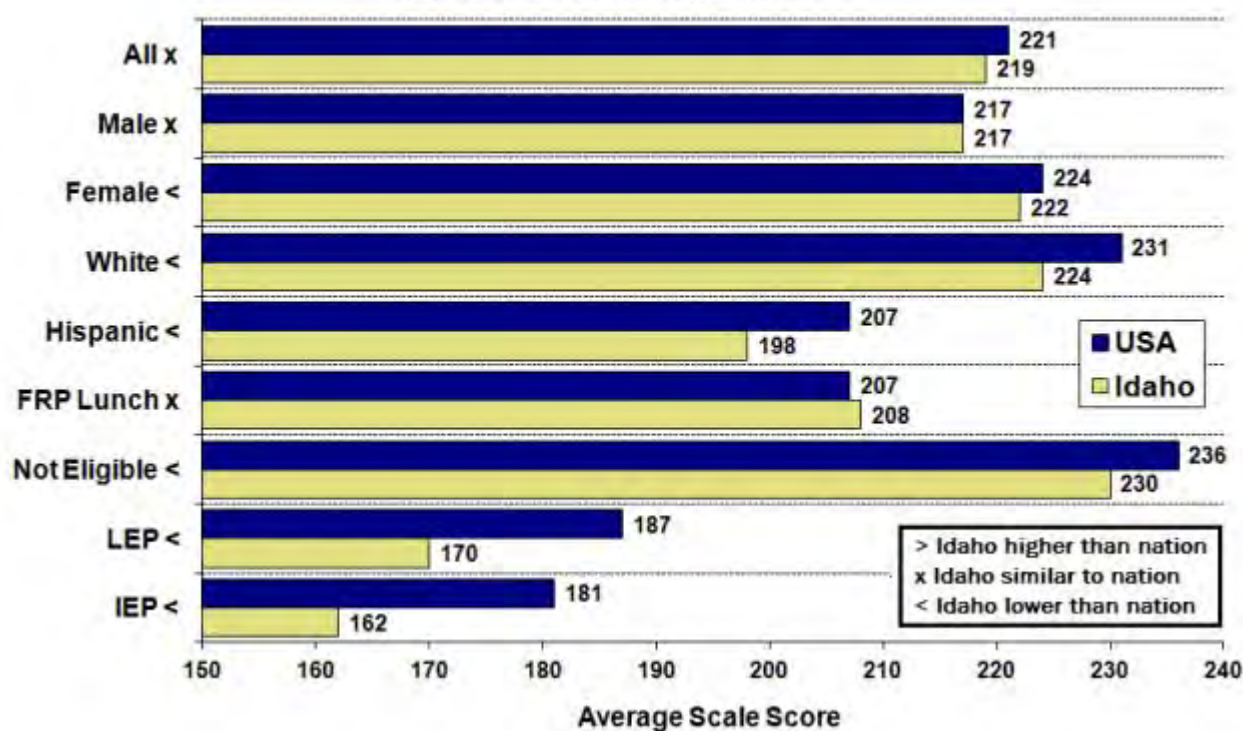
Idaho vs. National Student Demographic Groups NAEP 2013 Reading, Grade 4



[IDvUSgroups-rd13gr04.doc]

The National Assessment of Educational Progress (NAEP) reading assessment used multiple-choice and constructed-response items to examine student knowledge and skills using grade-appropriate literary and informational texts. Scores range from zero (0) to 500, where 208 is *Basic* (meets grade 4 expectations), 238 is *Proficient* (higher than grade level performance), and 268 is *Advanced*.

Idaho vs. National Public Demographic Groups NAEP 2013 Reading, Grade 4



► No fourth-grade student group in Idaho had an average score on the NAEP 2013 reading test that was **higher** than its national peer group.

► Six fourth-grade student groups in Idaho had an average score on the NAEP 2013 reading test that was **lower** than their national peers: female students, White students, Hispanic students, students not eligible for free or reduced priced meals, students with limited English proficiency, and students with disabilities who have an IEP [no 504].

► Three fourth-grade student groups in Idaho had an average score on the NAEP 2013 reading test that was **not significantly different** from their national peers: all students, male students, and students who qualify for free or reduced price meals from the National School Lunch Program.

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.
Source: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2013 Reading Assessment.

National Assessment of Educational Progress in Idaho

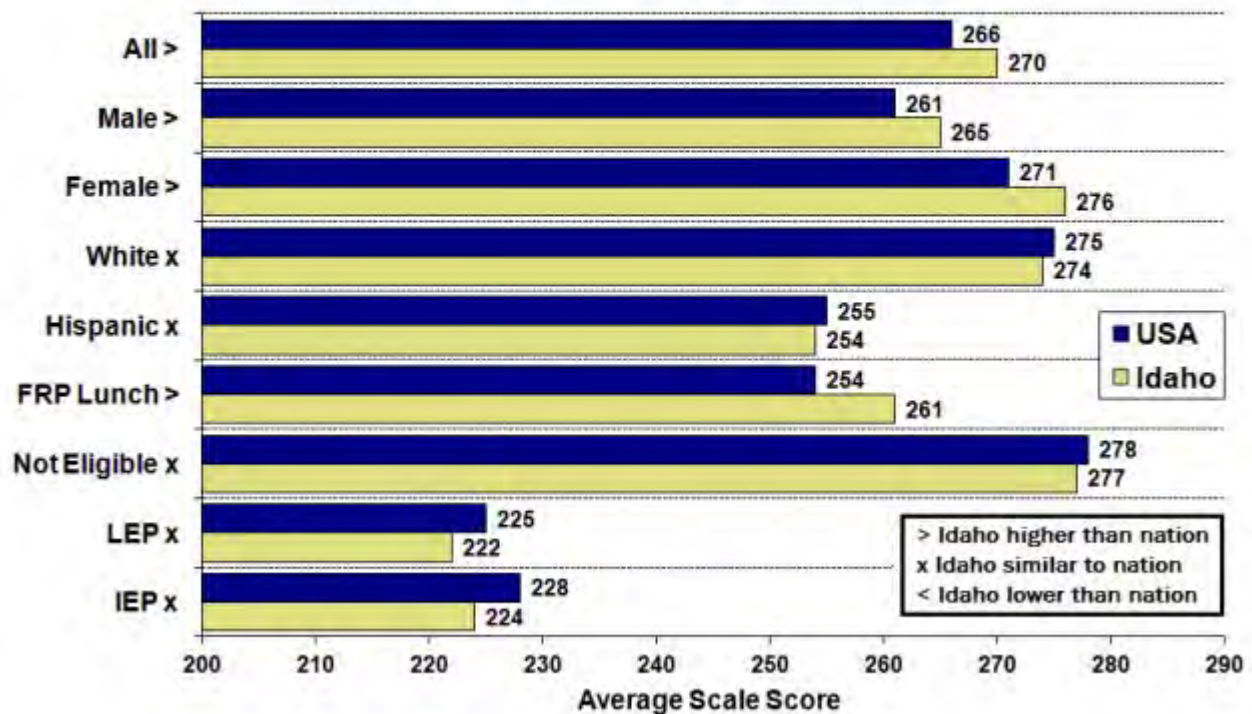
Idaho vs. National Student Demographic Groups NAEP 2013 Reading, Grade 8

[IDvUSgroups-rd13gr08.doc]



The National Assessment of Educational Progress (NAEP) reading assessment used multiple-choice and constructed-response items to examine student knowledge and skills using grade-appropriate literary and informational texts. Scores range from zero (0) to 500, where 243 is *Basic* (meets grade 8 expectations), 281 is *Proficient* (higher than grade level performance), and 323 is *Advanced*.

Idaho vs. National Public Demographic Groups NAEP 2013 Reading, Grade 8



► Four eighth-grade student groups in Idaho had an average score on the NAEP 2013 reading test that was **higher** than their national peers: all students, male students, female students, and students who qualified for free or reduced price meals.

► No eighth-grade student group in Idaho had an average score on the NAEP 2013 reading test that was **lower** than its national peer group.

► Five eighth-grade student groups in Idaho had an average score on the NAEP 2013 reading test that was **not significantly different** from their national peers: White students, Hispanic students, students who did not qualify for free or reduced price means, students with limited English proficiency, and students with disabilities who had an IEP [no 504].

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2013 Reading Assessment.

National Assessment of Educational Progress in Idaho

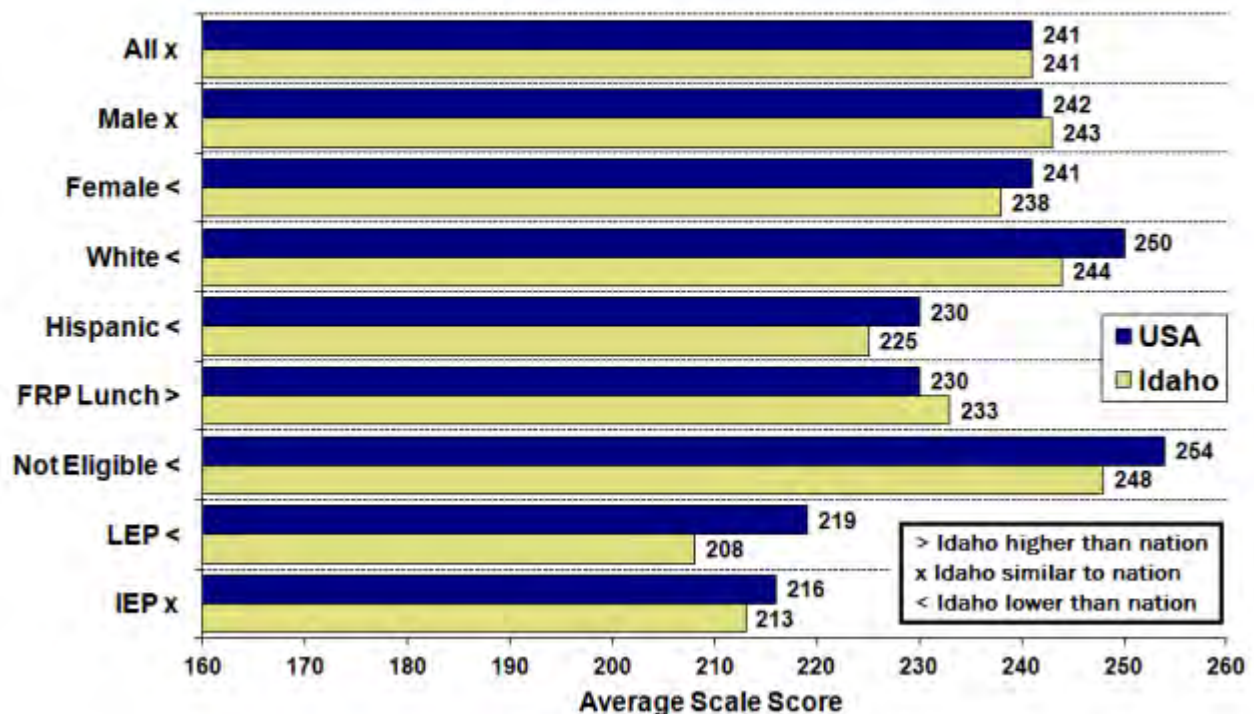
Idaho vs. National Student Demographic Groups NAEP 2013 Mathematics, Grade 4



[IDvUSgroups-ma13gr04]

The mathematics assessment of the National Assessment of Educational Progress (NAEP) used multiple-choice and constructed-response questions to examine student skills in number properties & operations, measurement, geometry, algebra & functions, and data analysis & probability. Mathematics scores range from 0 to 500, where 214 is *Basic* (meets grade 4 expectations), 249 is *Proficient* (higher than grade level performance), and 282 is *Advanced*.

Idaho vs. National Public Demographic Groups NAEP 2013 Mathematics, Grade 4



► One fourth-grade student group in Idaho had an average score on the NAEP 2013 mathematics test that was **higher** than its national peer groups: students who qualified for free or reduced price meals.

► Five fourth-grade student groups in Idaho had an average score on the NAEP 2013 mathematics test that was **lower** than their national peers: female students, White students, Hispanic students, students not eligible for free or reduced priced lunches, and students with limited English proficiency.

► Three fourth-grade student groups in Idaho had an average score on the NAEP 2013 mathematics test that was **not significantly different** from their national peers: all students, male students, and students with disabilities who have an IEP [no 504].

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.

Source: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2013 Mathematics Assessment.

National Assessment of Educational Progress in Idaho

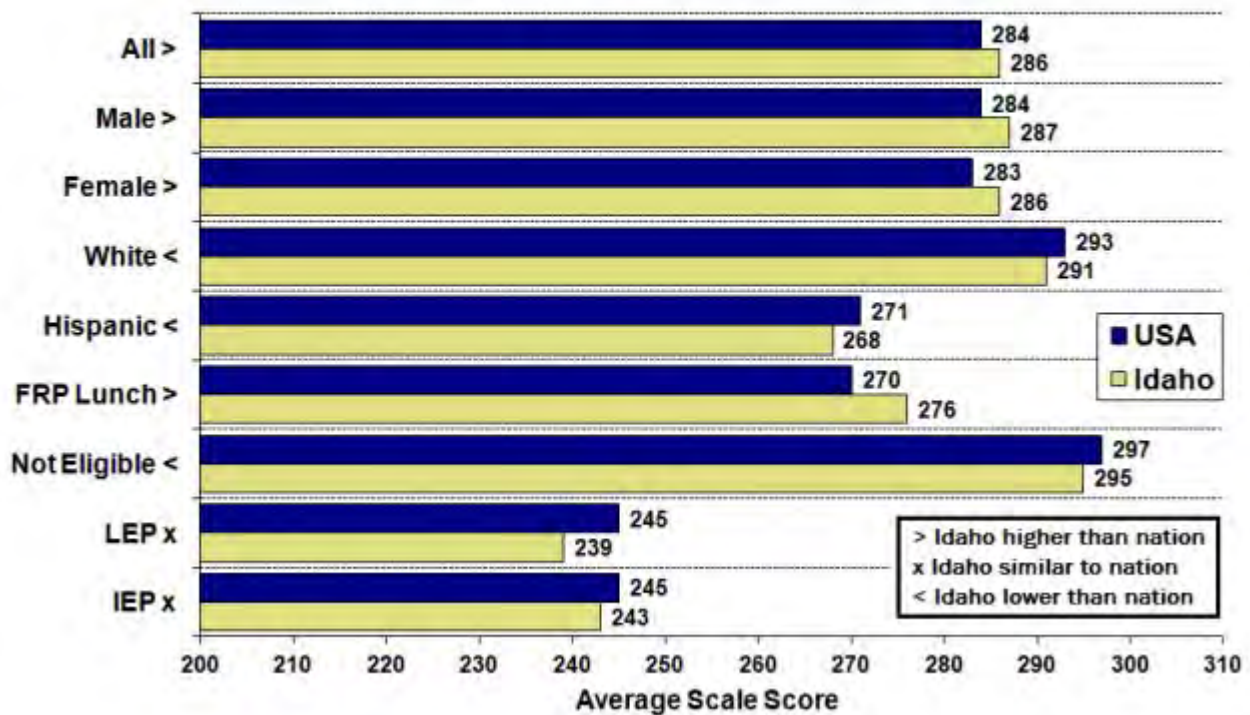
Idaho vs. National Student Demographic Groups NAEP 2013 Mathematics, Grade 8

[IDvUSgroups-ma13gr08]



The mathematics assessment of the National Assessment of Educational Progress (NAEP) used multiple-choice and constructed-response questions to examine student skills in number properties & operations, measurement, geometry, algebra & functions, and data analysis & probability. Mathematics scores range from 0 to 500, where 261 is *Basic* (meets grade 8 expectations), 299 is *Proficient* (higher than grade level performance), and 333 is *Advanced*.

Idaho vs. National Public Demographic Groups NAEP 2013 Mathematics, Grade 8



► Four eighth-grade student groups in Idaho had an average score on the NAEP 2013 mathematics test that was **higher** than their national peers: all students, male students, female students, and students who qualified for free or reduced price meals.

► Three eighth-grade student groups in Idaho had an average score on the NAEP 2013 mathematics test that was **lower** than its national peer group: White students, Hispanic students, and students not eligible for free or reduced price meals.

► Two eighth-grade student groups in Idaho had an average score on the NAEP 2013 mathematics test that was **not significantly different** from their national peers: students with limited English proficiency, and students with disabilities who have an IEP [no 504].

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors.
Source: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2013 Mathematics Assessment.

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Author Note

Bert Stoneberg was Idaho's NAEP State Coordinator from 2002 to 2012. Now retired he keeps busy with independent research and consulting in educational measurement and evaluation. He maintains a website to make his findings public. Visit <http://k12researchidaho.com>

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