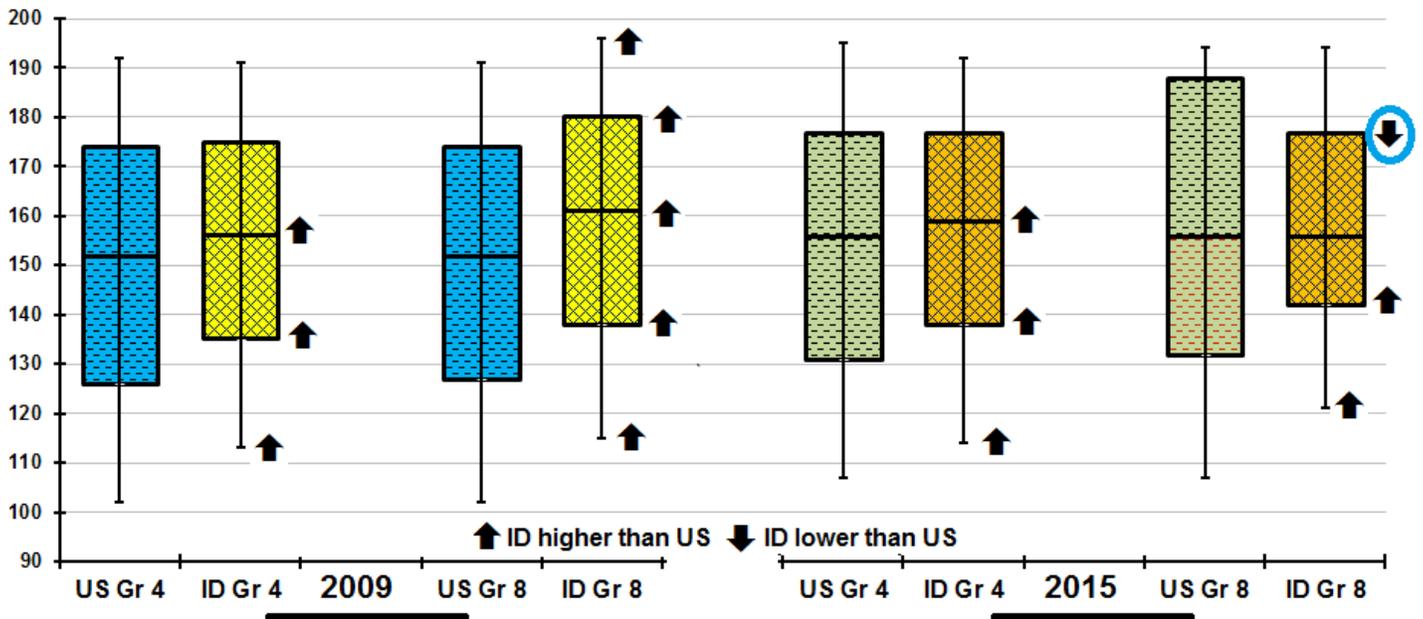




Idaho vs. National Percentile Comparisons in Grades 4 & 8 for NAEP Science, 2009 & 2015

The National Assessment of Educational Progress science assessment used multiple-choice and constructed-response items to examine student knowledge and skills in the earth, life and physical sciences. NAEP reports national and state results for the 90th (high), 75th (high average), 50th (average), 25th (low average), and 10th (low) percentiles. NAEP also provides data analysis tools for percentiles on the *NAEP Data Explorer*. Readers who are not familiar with the boxplot display of percentile results used here will find a brief overview on the attached page.



Grade 4:

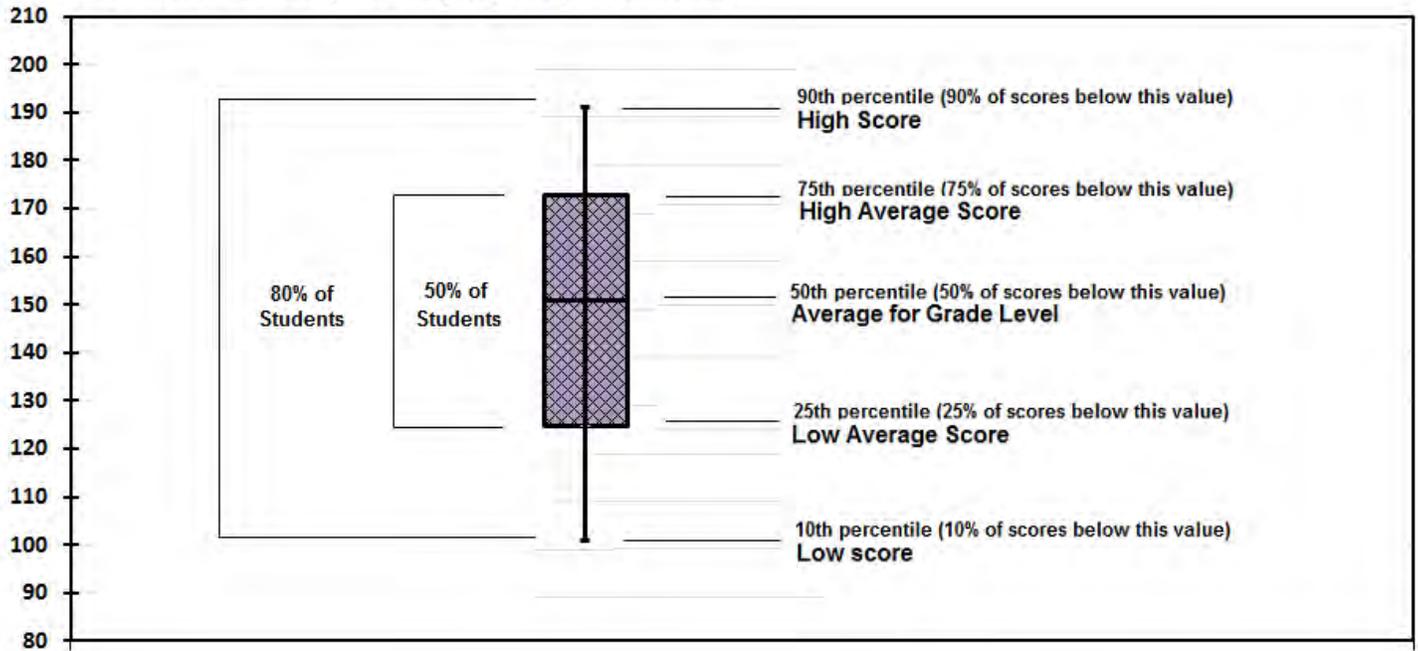
- From 2009 to 2015, Idaho fourth graders pretty much kept their “advantage” in science achievement at all five NAEP percentiles relative to their peers in the nation’s public schools.
- On NAEP science 2009, Idaho fourth graders scored higher at the 10th (low), 25th (low average) and 50th (average) percentiles than their national peers, and were not significantly different at the 75th (high average), and 90th (high) percentiles. On NAEP science 2015, Idaho fourth graders also scored higher at the 10th, 25th, and 50th percentiles than their national peers, and were not significantly different at the 75th, and 90th percentiles from their national peers.

Grade 8:

- From 2009 to 2015, Idaho eighth graders kept their “advantage” at the 10th (low) and 25th (low average) percentiles, but lost ground at the upper percentiles, significantly so at the 75th (high average) percentile.
- On NAEP science 2009, Idaho eighth graders scored higher at all five percentiles than their national peers. On NAEP science 2015, Idaho eighth graders scored higher at the 10th (low) and 25th (low average) percentiles than their national peers, were not significantly different at the 50th (average) and 90th (high) percentiles, and scored lower at the 75th (high average) percentile.

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), 2009 and 2015 Science Assessments.

Overview of boxplot display of percentiles



Idaho vs. the nation's public schools on NAEP science percentiles from 2009 and 2015, grades 4 and 8.

Science Total	2009				2015			
	US Gr 4	ID Gr 4	US Gr 8	ID Gr 8	US Gr 4	ID Gr 4	US Gr 8	ID Gr 8
90th High	192	191	191	196*	195	192	194	194
75th High Average	174	175	174	180*	177	177	188*	177
50th Average	152	156*	152	161*	156	159*	156	156
25th Low Average	126	135*	127	138*	131	138*	132	142*
10th Low	102	113*	102	115*	107	114*	107	121*

Notes:

