



State Board of Education Meeting: *Assessment Update*

December 2, 2015

*Dr. Michele Walker, Director
Office of Student Assessment*



**Indiana
Department of Education**

Glenda Ritz, NBCT
Indiana Superintendent of Public Instruction

Agenda

- * NAEP Update
- * ISTEP+/IREAD-3 Update
- * Formative Assessment



NAEP Update



NAEP Update

- 2015 Indiana Results (Refer to handouts in SBOE packet)
 - **Grades 4, 8**
 - Reading
 - Mathematics
 - **Subcategories**
 - Areas of strength and areas of need for Indiana schools



ISTEP+/IREAD-3 Update



ISTEP+/IREAD-3 Update

- Online / Paper-Pencil Testing
 - ISTEP+ Part 1
 - ELA, Science, Social Studies
 - IREAD-3
 - Schools may choose online or paper/pencil testing
- PearsonAccess^{next}
 - Pearson's administration portal
 - December 7-11
 - CTCs indicate testing mode (ISTEP+ Part 1, IREAD-3)



ISTEP+/IREAD-3 Update

- Determining capacity/connectivity:
Pearson Technology Readiness Process
 - System Set-up
 - Device Inventory
 - Local Infrastructure Trial
 - Statewide Readiness Test
 - Scheduled to occur on January 12, 2016



Formative Assessment



Formative Assessment Test Grant Program Update

- Grant amounts
 - Based on Pupil Enrollment (PE) counts, which were finalized after October 30, 2015
 - K-2 Information (Refer to handouts in SBOE packet)



Thank you...



...for the opportunity to share
this update!





TOP PERFORMING STATISTICAL COMPARISON

While comparing state scores for 2015, Massachusetts, Minnesota, New Hampshire, and Indiana all had the top four Mathematics scores. However, if we were to compare each of the top three states to Indiana individually, the scores are not significantly different. The difference between the three scores when compared to Indiana does not represent the true difference between student state performance, so there is no real difference between any of the four top performing states. All four states had a sample of students take the Mathematics assessment, and when student scores were averaged together, these four states had the top scores in the nation. In 2015, there were eight states that did not have any significant difference from Indiana's score. There were also 43 states that had a significantly lower score than Indiana's. In 2013 there were only 38 states with a lower score.

In 2013, Indiana students who attend town schools received the **6th** highest score in the nation. In 2015, Indiana town students scored the

4th highest

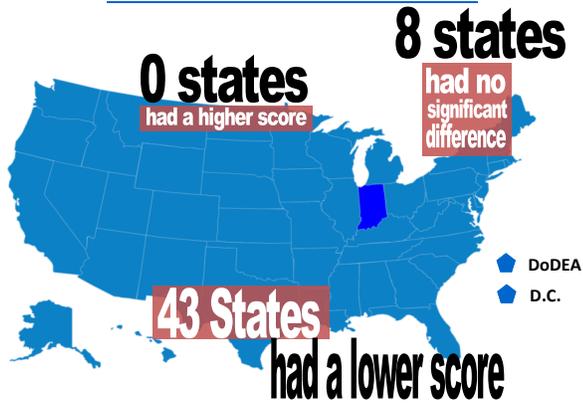


in the nation.

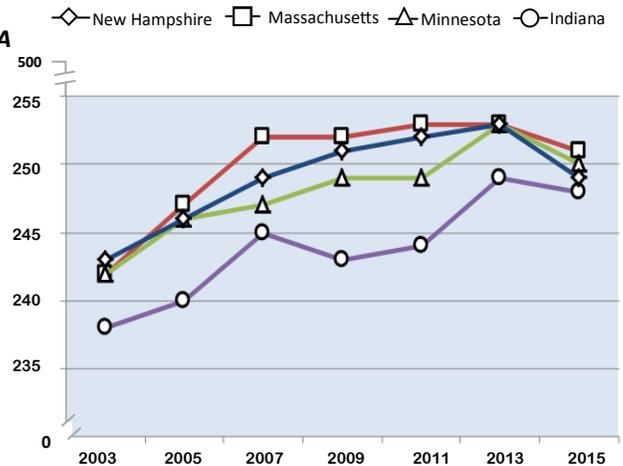
2015 TOP PERFORMING STATES OVER 15 YEARS

Indiana students were among the top performers again in 2015. (*Table A*) The other three states had a decrease in their state score from 2013. Indiana had a one-point decrease from 2013, but was not statistically significant, which means the difference happened by chance and should not be considered a measurable score decrease. Minnesota and New Hampshire had a significant decrease in scores, which means the score drop was not due to chance and is considered a measurable decrease.

2015 STATISTICAL RESULTS



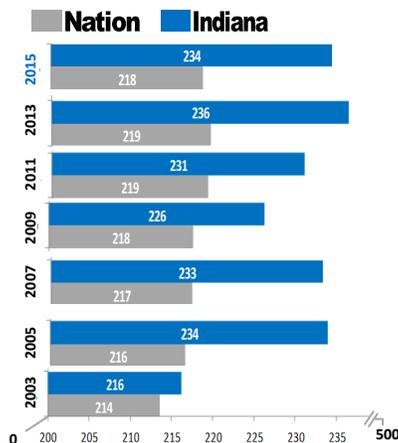
TAB. A



NOTE: The NAEP Mathematics scale ranges from 0 to 500. Some apparent differences between estimates may not be statistically significant. SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP) Mathematics Assessments

NATIONAL VS. INDIANA- ELL STUDENTS

In 2015, Indiana's 4th grade English Language Learner students scored 16 points higher than the nation and had the highest score in the nation among all ELL students. 2015 marks the third consecutive NAEP assessment that



Indiana ELL students scored more than 12 points higher than the national average. Due to the variation of the size of the Indiana ELL sample each year, there is no significant difference comparing Indiana's score in 2015 to other previous years except 2003, which is a significantly lower score. Indiana was significantly higher than the nation in 2005, 2007, 2009, 2011, 2013, and 2015.

NOTE: The NAEP Mathematics scale ranges from 0 to 500. SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP), Mathematics Assessments.

In 2013 Indiana rural school students got the **10th** highest score in the nation. In 2015, Indiana rural students got the

5th highest



score in the nation.

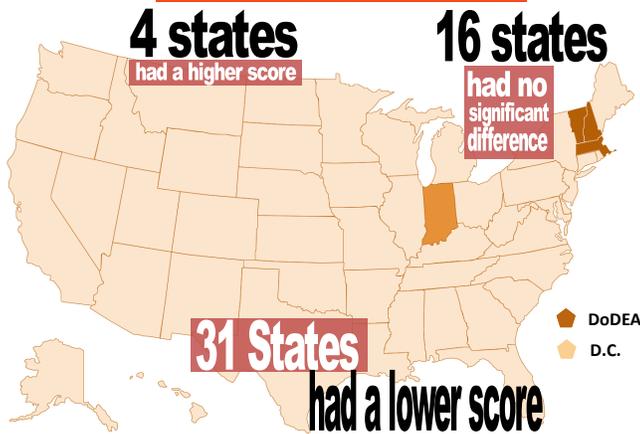
Indiana 4th Grade Students 10th in the Nation for 2015 Reading



TOP PERFORMING STATISTICAL COMPARISON

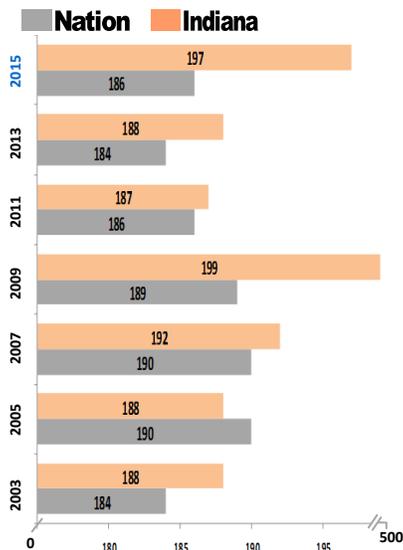
Indiana 4th grade students had the 10th highest reading score, which improved from 2013 (15th). In 2013, there were 22 states that, when compared to Indiana, did not have any significant difference between student state performance. In 2015, the number of states with no difference to Indiana performance dropped to 16 states. In 2013, there were 23 states that scored significantly lower than Indiana; in 2015, there were 31. However, all ten of the top scoring states had a sample of students take the reading assessment, and when student scores were averaged together, these ten states had the top scores in the nation.

2015 STATISTICAL RESULTS



NATIONAL VS. INDIANA — students with disabilities

In 2015, Indiana's 4th grade student with disabilities scored 11 points higher than the nation and had the highest score in the nation among all students with disabilities. 2015 marks the fifth consecutive NAEP assessment that Indiana students with disabilities scored above the national average among all students with disabilities. In 2015, the Indiana students with disability score, when compared to other Indiana sampled years, was significantly higher than the 2003, 2005, 2011, and 2013 scores. Indiana was significantly higher than the nation in 2009 and 2015.



NOTE: The NAEP Reading scale ranges from 0 to 500. SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP), Reading Assessments.

In 2013, Indiana Hispanic students received the 8th highest score in the nation. In 2015, Indiana Hispanic students received the

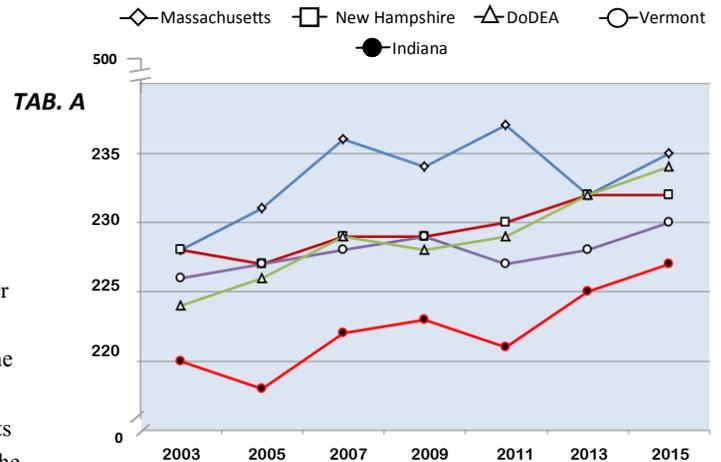
7th highest

score in the nation.



2015 TOP PERFORMING STATES OVER 15 YEARS

Indiana students performed amongst the top ten performing states in 2015. (Table A) However, if we were to compare each of the nine states to Indiana individually, only Massachusetts, New Hampshire, Vermont, and DoDEA scored significantly higher than Indiana. The other five states' scores were not significantly different than Indiana's score. Of the only four states that scored higher than Indiana, Indiana had the biggest score increase since 2011. Indiana has had a 6-point increase since 2011, Massachusetts a 2-point decrease, New Hampshire a 2-point increase, Vermont a 3-point increase, and DoDEA a 5-point increase.



NOTE: The NAEP Mathematics scale ranges from 0 to 500. Some apparent differences between estimates may not be statistically significant. SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP) Reading Assessments

In 2013, Indiana students with disabilities had the 18th highest score in the nation. In 2015, Indiana students with disabilities had the

8th highest

score in the nation.



Indiana 8th grade students had the 10th highest reading score which improved from the 2013 (15th). However, if we were to compare each of the nine states against Indiana individually, only Massachusetts, New Hampshire, and DoDEA scored significantly higher than Indiana. The other six state's scores were not significantly different than Indiana's score. Of the only three states that scored higher Indiana, Indiana, Indiana had a bigger decrease in score since 2011. Indiana has a 6 point increase since 2011, Massachusetts had a 2 point decrease, New Hampshire had a 2 point increase and DoDEA had a 5 point increase.

In 2013 there were 23 states that scored significantly lower than Indiana. In 2015 there were 31. In 2013 there were 22 states that when comparing scores one on one with Indiana, did not have any significant difference between student state performance, in 2015 the number of states with no difference to Indiana performance dropped to 16 states. (This matches the nation map)

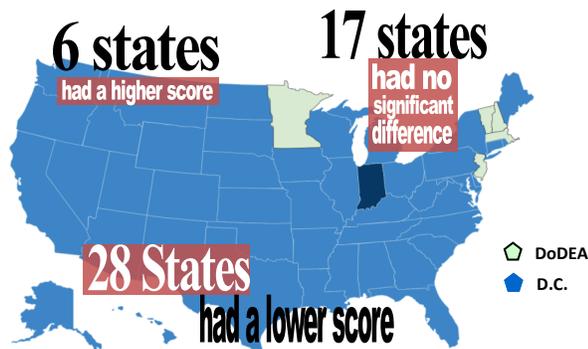
Indiana 8th Grade Students 11th in the Nation for 2015 Mathematics



TOP PERFORMING STATISTICAL COMPARISON

In 2015, Indiana 8th grade students received the 11th highest score in the nation, which was an improvement from 2013, when Indiana received the 19th highest score. In 2013, there were 20 states that, when comparing scores with Indiana, did not have any significant difference between student state performance. In 2015, the number of states with no difference to Indiana performance dropped to 17 states. There were also 28 states that had a significantly lower score than Indiana's. In 2013, there were only 25 states with a lower score. However, all eleven of the top scoring states had a sample of students take the mathematics assessment, and when student scores were averaged together, these eleven states had the top scores in the nation.

2015 STATISTICAL RESULTS



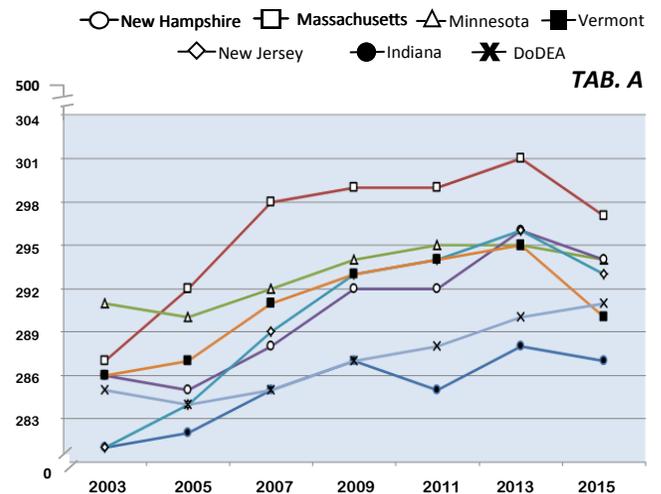
In 2013, Indiana students who attend town schools received the 6th highest score in the nation. In 2015, Indiana town students got the

4th highest
score in the nation.



2015 TOP PERFORMING STATES OVER 15 YEARS

In 2015, there were 5 states that got a significantly higher score than Indiana (*Table A*). Of those states, Massachusetts and Vermont had a significant drop in score from 2013. Indiana had a one-point decrease from 2013, but was not statistically significant, which means the difference happened by chance and should not be considered a measureable decrease. Minnesota, New Hampshire, and New Jersey all had a decrease in scores in 2015, but had no statistical difference in their scores from 2013.

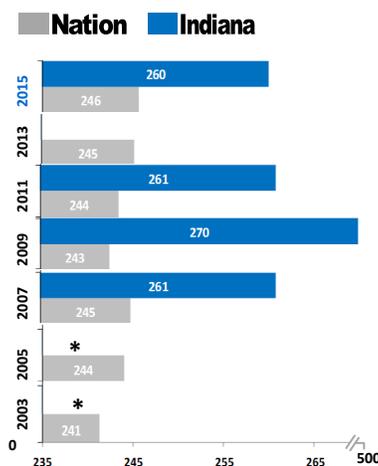


NOTE: The NAEP Mathematics scale ranges from 0 to 500. Some apparent differences between estimates may not be statistically significant. SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP) Mathematics Assessments

NATIONAL VS. INDIANA— ELL STUDENTS

In 2015, Indiana's 8th grade English Language Learner students scored 14 points higher than the nation and had the 4th highest score in the nation among all ELL students. Indiana's ELL students continue to pull away from the national average. Due to the variation of the size of the Indiana ELL

sample each year, there is no significant difference comparing Indiana's score in 2015 to other previous years. There is a justified margin of error for both national and Indiana ELL samples to allow comparisons that shows a significant difference in scores in 2007, 2009, 2011, and 2015 among all ELL students.



*Insufficient data to produce a reliable estimate. NOTE: The NAEP Mathematics scale ranges from 0 to 500. SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP), Mathematics Assessments.

In 2013, Indiana rural school students got the 10th highest score in the nation. In 2015, Indiana rural students got the

5th highest
score in the nation.



Indiana 8th Grade Students 16th in the Nation for 2015 Reading



TOP PERFORMING STATISTICAL COMPARISON

Indiana 8th grade students had the 16th highest reading score, which improved from 2013 (27th). In 2013, there were 23 states, that when comparing scores with Indiana, did not have any significant difference between student state performance. In 2015, the number of states with no difference to Indiana performance increased to 24 states. In 2013, there were 15 states that scored significantly lower than Indiana; in 2015, there were 22. However, all ten of the top scoring states had a sample of students take the reading assessment, and when student scores were averaged together, these ten states had the top scores in the nation.

2015 STATISTICAL RESULTS



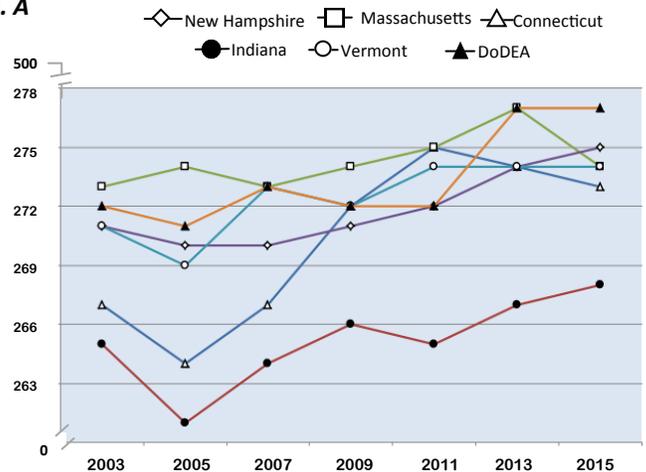
In 2013, Indiana students who attend city schools received the **29th** highest score in the nation. In 2015, Indiana town students had the **13th** highest score in the nation.



2015 TOP PERFORMING STATES OVER 15 YEARS

Indiana students performed amongst the top sixteen performing states in 2015. (Table A) However, if we were to compare each of the fifteen states to Indiana individually, only Massachusetts, New Hampshire, Connecticut, Vermont, and DoDEA scored significantly higher than Indiana. The other ten states' scores were not significantly different than Indiana's score. Of the only five states that scored higher than Indiana, Indiana tied for the second biggest score increase since 2011. Indiana has had a 3-point increase since 2011, Massachusetts a 1-point decrease, New Hampshire a 3-point increase, Connecticut a 2-point decrease, DoDEA a 5-point increase while Vermont had no score change since 2011.

TAB. A



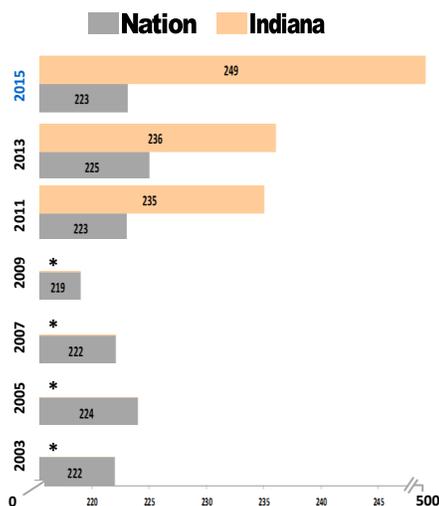
NOTE: The NAEP Reading scale ranges from 0 to 500. Some apparent differences between estimates may not be statistically significant. SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP) Reading Assessments

In 2013, Indiana suburb school students got the **30th** highest score in the nation. In 2015, Indiana suburb students received the **9th** highest score in the nation.



NATIONAL VS. INDIANA—ELL STUDENTS

In 2015, Indiana's 8th grade English language learners scored 26 points higher than the nation and had the second highest score in the nation among all English language learners. 2015 marks the third consecutive NAEP



*Insufficient data from Indiana to produce a reliable estimate. NOTE: The NAEP Reading scale ranges from 0 to 500. SOURCE: National Center for Education Statistics, National Assessment of Educational Progress (NAEP), Reading Assessments.

assessment that Indiana students with disabilities scored 10 points above the national average among all English language learners. In 2015, the Indiana students with disability score, when compared to other Indiana sampled years, was significantly higher than the 2011 and 2013 scores. Indiana did not have a big enough ELL student sample to produce reliable data before 2011. Indiana was significantly higher than the nation in 2011, 2013, and 2015.

NAEP Sub-Categories

Mathematics-

has five subcategories for both 4th & 8th grades on the NAEP mathematics assessment

- **Algebra**
- **Data Analysis**
- **Geometry**
- **Measurement**
- **Number properties**

Reading

Has two subcategories for both 4th & 8th grades on the NAEP reading assessment

- **Gain Information**
- **Literary Experience**

2015 Assessment Score Gain or Drop

Subject/ Subcategory	4th grade	8th grade
<u>Mathematics-</u>		
• Algebra	↓	—
• Data Analysis	↓	↓
• Geometry	↓	↓
• Measurement	↓	↓
• Number properties	↓	↑
<u>Reading</u>		
• Gain Information	↑	↑
• Literary Experience	↑	↑