NAEP 2013 Mathematics and Reading Results

Beth Fultz
NAEP State Coordinator
November 7, 2013
What is NAEP?

• The National Assessment of Educational Progress (NAEP) is the largest continuing and nationally representative assessment of what our nation’s students know and can do in core subjects.

• A survey designed to produce national, state, and select urban district level results.
  – NAEP results are for populations of students, not for individual students nor schools.
  – Measures student performance nationally and reports changes over time.
  – Allows comparisons between states and the nation.
NAEP uses a carefully designed sampling procedure for the assessment to be representative of the geographical, racial, ethnic, and socio-economic diversity of schools and students in the state.

- First, schools are selected to be representative of schools.
- Then, within each chosen school students are randomly selected to participate. Each participating student represents hundreds of other similar students.
NAEP Administration

- NAEP is administered over a six-week period.
  - For 2013: January 28\textsuperscript{th} – March 8\textsuperscript{th}

- About 3,000 students in approximately 100 schools are selected in each state for each grade and subject.
  - Each student is only assessed in one subject area.
  - Students only take a small portion of the assessment
  - Accommodations are provided as necessary for students with disabilities and English language learners.
• The results of NAEP are released as *The Nation’s Report Card*.
  – The report card provides national, state, and district-level results, results for different demographic groups, inclusion information, and sample questions.

• NAEP Results are reported in two formats
  – Average Scale Scores
    • Numeric scale
    • 0 – 500 on mathematics and reading assessments
    • Scores cannot be compared across content areas
  – Achievement Levels
    • Categorical scale
    • Below *Basic, Basic, Proficient, Advanced*
Grade 4 Mathematics Results
Average Scale Scores Over Time

NOTE: Observed differences are not necessarily statistically significant.
2013 Achievement Levels

<table>
<thead>
<tr>
<th>% Advanced</th>
<th>% Proficient</th>
<th>% Basic</th>
<th>% Below Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Public</td>
<td>8</td>
<td>34</td>
<td>41</td>
</tr>
<tr>
<td>Kansas</td>
<td>8</td>
<td>40</td>
<td>41</td>
</tr>
</tbody>
</table>

NOTE: Observed differences are not necessarily statistically significant. Percentages might not sum to 100 due to rounding.
Score Gap Comparison: NSLP Not Eligible and Eligible

NOTE: Observed differences are not necessarily statistically significant. Score gaps are calculated based on differences between unrounded average scale scores.
Grade 8 Mathematics Results
Average Scale Scores Over Time

NOTE: Observed differences are not necessarily statistically significant.
2013 Achievement Levels

<table>
<thead>
<tr>
<th></th>
<th>National Public</th>
<th>Kansas</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Advanced</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>% Proficient</td>
<td>26</td>
<td>30</td>
</tr>
<tr>
<td>% Basic</td>
<td>39</td>
<td>39</td>
</tr>
<tr>
<td>% Below Basic</td>
<td>27</td>
<td>21</td>
</tr>
</tbody>
</table>

NOTE: Observed differences are not necessarily statistically significant. Percentages might not sum to 100 due to rounding.
Score Gap Comparison: NSLP Not Eligible and Eligible

**National Public**

Not Eligible: 258, 261, 265, 266, 269, 270
Eligible: 287, 288, 291, 293, 295, 297

**Kansas**

Not Eligible: 291, 293, 299, 298, 300, 301
Eligible: 270, 270, 275, 276, 276, 276

NOTE: Observed differences are not necessarily statistically significant. Score gaps are calculated based on differences between unrounded average scale scores.
Grade 4 Reading Results
Average Scale Scores Over Time

NOTE: Observed differences are not necessarily statistically significant.
2013 Achievement Levels

<table>
<thead>
<tr>
<th>National Public</th>
<th>Kansas</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Advanced</td>
<td>8</td>
</tr>
<tr>
<td>% Proficient</td>
<td>33</td>
</tr>
<tr>
<td>% Basic</td>
<td>33</td>
</tr>
<tr>
<td>% Below Basic</td>
<td>26</td>
</tr>
</tbody>
</table>

NOTE: Observed differences are not necessarily statistically significant. Percentages might not sum to 100 due to rounding.
Score Gap Comparison: NSLP Not Eligible and Eligible

National Public

Kansas

NOTE: Observed differences are not necessarily statistically significant. Score gaps are calculated based on differences between unrounded average scale scores.
Grade 8 Reading Results
Average Scale Scores Over Time

**NOTE:** Observed differences are not necessarily statistically significant.
2013 Achievement Levels

<table>
<thead>
<tr>
<th></th>
<th>National Public</th>
<th>Kansas</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Advanced</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>% Proficient</td>
<td>31</td>
<td>33</td>
</tr>
<tr>
<td>% Basic</td>
<td>42</td>
<td>42</td>
</tr>
<tr>
<td>% Below Basic</td>
<td>23</td>
<td>22</td>
</tr>
</tbody>
</table>

NOTE: Observed differences are not necessarily statistically significant. Percentages might not sum to 100 due to rounding.
Score Gap Comparison: NSLP Not Eligible and Eligible

National Public

Kansas

NOTE: Observed differences are not necessarily statistically significant. Score gaps are calculated based on differences between unrounded average scale scores.