



The National Assessment of Educational Progress: National Indian Education Study

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The National Assessment of Educational Progress: NIES

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Outline

1. What is National Assessment of Educational Progress (NAEP) ?
2. History of National Indian Education Study (NIES)
3. Results
4. Survey Questionnaires
5. Tour of NIES NAEP Data Explorer

What is NAEP?

What is NAEP?

- The largest nationally representative and continuing assessment of what America's students know and can do in various subject areas
 - First national assessment administered in 1969
 - Just completed 2017 reading and mathematics data collection
 - Administered via tablet computers
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What is NAEP? (cont.)

- Congressional mandate: Elementary and Secondary Education Act (ESEA) Reauthorization of 2001
 - *NAEP will conduct national and state assessments at least once every two years in reading and mathematics in grades 4 and 8. These assessments will be conducted in the same year.*
 - *Any state that wishes to receive a Title I grant must...participate in the biennial state-level...NAEP in reading and mathematics at grades 4 and 8.*
 - *To the extent time and money allow, NAEP will be conducted in grades 4, 8 and 12 at regularly scheduled intervals in additional subjects...*
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What is NAEP? (cont.) – Sample

- National representative to report performance of students in public schools, regions, gender, race/ethnicity, school location, parental education, NSLP participation
- Approximately 2,200 students and 100 schools per state
 - If the state has a Trial Urban District Assessment (TUDA) these numbers increase
- Approximately 30 students per grade and subject randomly selected in each school

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National Indian Education Study

- Established in 2004
 - Assist American Indian/ Alaska Native (AI/AN) students in meeting academic standards
 - Report on current status of AI/AN students
 - Required compilation of comprehensive data on AI/AN academic achievement



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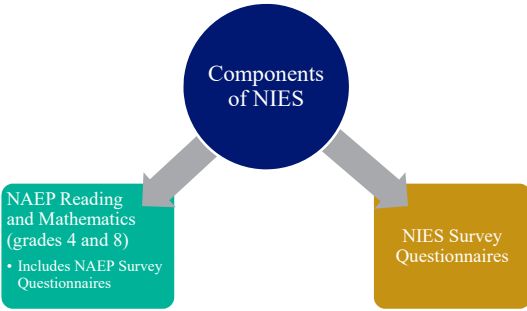
National Indian Education Study

- First administered in 2005
- Conducted every two years from 2005-2011
 - Frequency reduced due to funding
 - Last administered in 2015
- The first Digitally Based Assessment (DBA) is scheduled to take place in 2019



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National Indian Education Study (cont.)

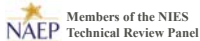


Partners

In collaboration with:



The Office of Indian Education



Members of the NIES Technical Review Panel



Kauffman Associates



The Bureau of Indian Education



TRIBAL TECH, LLC



Karen Francis-Begay,
Assistant Vice President of Tribal Relations

NIES Results

Participation

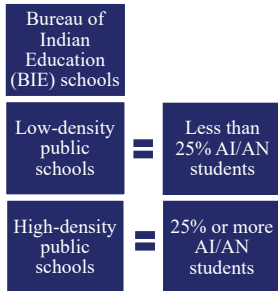
- Students were identified as AI/AN based on school records and were sampled along with other students participating in the NAEP 2015 math and reading assessments
- Survey Participants:



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School Categories

- Results are disaggregated into three mutually exclusive categories of schools
- Results are also reported overall



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Grades 4 and 8 Characteristics

Percentage of fourth and eighth-grade AI/AN students, by grade and student characteristics: 2015

| Grade and student characteristics | All AI/AN students | School type/density | | |
|---------------------------------------|--------------------|----------------------------|-----------------------------|-------------|
| | | Low density public schools | High density public schools | BIE schools |
| Grade 4 | | | | |
| Attend rural schools | 45 | 27 | 64 | 88 |
| English language learners | 11 | 6 | 12 | 49 |
| Eligible for free/reduced price lunch | 73 | 64 | 87 | 94 |
| Computer in home | 69 | 74 | 63 | 56 |
| Grade 8 | | | | |
| Attend rural schools | 38 | 21 | 57 | 79 |
| English language learners | 7 | 3 | 9 | 39 |
| Eligible for free/reduced price lunch | 66 | 56 | 80 | 96 |
| Computer in home | 75 | 82 | 68 | 55 |

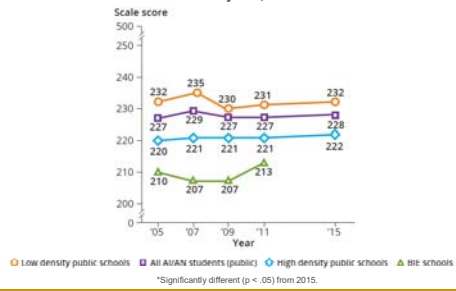
All characteristics shown in this table are significantly different for BIE schools compared to both high AND low density schools.

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National Results

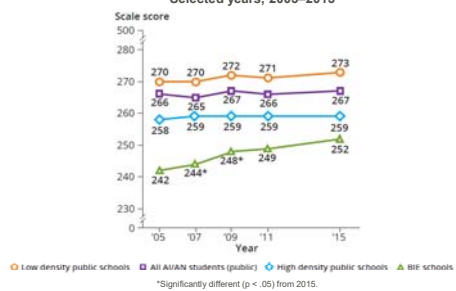
Mathematics Grade 4

Fourth-grade AI/AN students, by school type/density:
Selected years, 2005–2015



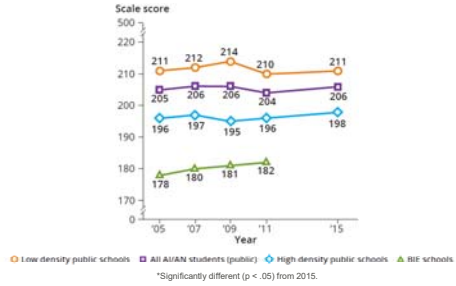
Mathematics Grade 8

Eighth-grade AI/AN students, by school type/density:
Selected years, 2005–2015



Reading Grade 4

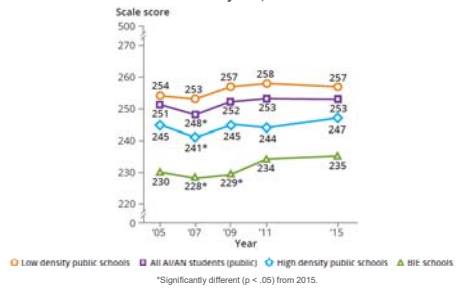
Fourth-grade AI/AN students, by school type/density:
Selected years, 2005–2015



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Reading Grade 8

Eighth-grade AI/AN students, by school type/density:
Selected years, 2005–2015



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State Results

Grade 4 Mathematics AI/AN

| Jurisdiction | 2005 | 2007 | 2009 | 2011 | 2015 |
|--|------------|------------|------------|------------|------------|
| NOTE: The national and state results reported here include only public and Bureau of Indian Education (BIE) schools. Results for Alaska include public schools only. | | | | | |
| Nation | 226 | 228 | 225 | 226 | 227 |
| Alaska | 220 | 218 | 216 | 213* | 219 |
| Arizona | 215 | 213 | 213 | 215 | 218 |
| Minnesota | — | 234* | 232 | 232 | 223 |
| Montana | 223* | 222* | 227* | 220 | 216 |
| New Mexico | 215 | 217 | 214 | 218 | 218 |
| North Carolina | — | 229 | 232 | 225 | 229 |
| North Dakota | 221 | 223 | 223 | 220 | 224 |
| Oklahoma | 229* | 234 | 234 | 234 | 235 |
| Oregon | — | 220 | 223 | 220 | — |
| South Dakota | 217 | 215 | 217 | 218 | 215 |
| Utah | — | — | 218 | 214 | — |
| Washington | — | 226* | 225* | 222 | 216 |
| Wisconsin | — | — | — | — | 231 |
| Wyoming | — | — | — | — | 220 |

— Not available. State was not sampled for NIES reporting of separate state results.
* Significantly different ($p < .05$) from 2015.

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Grade 8 Mathematics for AI/AN Students

| Jurisdiction | 2005 | 2007 | 2009 | 2011 | 2015 |
|--|------------|------------|------------|------------|------------|
| NOTE: The national and state results reported here include only public and Bureau of Indian Education (BIE) schools. Results for Alaska include public schools only. | | | | | |
| Nation | 264 | 264 | 266 | 265 | 266 |
| Alaska | 264* | 260 | 262 | 258 | 257 |
| Arizona | 256 | 255 | 254 | 253 | 258 |
| Minnesota | — | 266 | 275* | 263 | 261 |
| Montana | 259 | 260 | 260 | 263 | 256 |
| New Mexico | 251* | 250* | 252* | 256 | 258 |
| North Carolina | — | 261 | 256 | 265 | 261 |
| North Dakota | 260 | 260 | 260 | 262 | 259 |
| Oklahoma | 267 | 269 | 269 | 272 | 269 |
| Oregon | — | 264 | 273 | 260 | — |
| South Dakota | 250 | 254 | 260 | 257 | 257 |
| Utah | — | — | 263* | 244 | 240 |
| Washington | — | 264 | 268 | 256 | 263 |
| Wisconsin | — | — | — | — | 273 |
| Wyoming | — | — | — | — | 252 |

— Not available. State was not sampled for NIES reporting of separate state results.
* Significantly different ($p < .05$) from 2015.

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Grades 4 and 8 Mathematics for AI/AN Students

Comparison of NAEP mathematics average scores for fourth- and eighth-grade AI/AN students in public and BIE schools, by jurisdiction: 2015

| | Grade 4 only | Grade 8 only |
|---------------------------|--|--|
| Higher than nation | Oklahoma | |
| Lower than nation | Alaska Arizona Montana New Mexico South Dakota Washington | Alaska Montana New Mexico North Dakota South Dakota Utah Wyoming |

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Grade 4 Reading for AI/AN Students

| Jurisdiction | 2005 | 2007 | 2009 | 2011 | 2015 |
|--|------|------|------|------|------|
| NOTE: The national and state results reported here include only public and Bureau of Indian Education (BIE) schools. Results for Alaska include public schools only. | | | | | |
| Nation | 203 | 204 | 204 | 202 | 204 |
| Alaska | 183 | 188 | 179 | 175* | 184 |
| Arizona | 184 | 184 | 188 | 183 | 189 |
| Minnesota | — | 205 | 199 | 195 | 197 |
| Montana | 201 | 204 | 206 | 199 | 199 |
| New Mexico | 186 | 193 | 188 | 190 | 184 |
| North Carolina | — | 202 | 202 | 192 | 198 |
| North Dakota | 198 | 201 | 202 | 205 | 202 |
| Oklahoma | 211* | 213* | 215* | 212* | 223 |
| Oregon | — | 206 | 210 | 213* | 192 |
| South Dakota | 194 | 192 | 190 | 191 | 190 |
| Utah | — | — | 194 | 185 | — |
| Washington | — | 204 | 212 | 201 | 196 |
| Wisconsin | — | — | — | — | 207 |
| Wyoming | — | — | — | — | 203 |

— Not available. State was not sampled for NIES reporting of separate state results.
*Significantly different ($p < .05$) from 2015.

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Grade 8 Reading for AI/AN Students

| Jurisdiction | 2005 | 2007 | 2009 | 2011 | 2015 |
|--|------|------|------|------|------|
| NOTE: The national and state results reported here include only public and Bureau of Indian Education (BIE) schools. Results for Alaska include public schools only. | | | | | |
| Nation | 249 | 247* | 251 | 252 | 252 |
| Alaska | 240* | 236 | 239* | 234 | 231 |
| Arizona | 238 | 232* | 241 | 240 | 242 |
| Minnesota | — | 246 | 257 | 258 | 250 |
| Montana | 247 | 249 | 253 | 256 | 249 |
| New Mexico | 236 | 233* | 236 | 240 | 241 |
| North Carolina | — | 236 | 235 | 245 | 250 |
| North Dakota | 248 | 246 | 242 | 244 | 245 |
| Oklahoma | 254* | 256 | 258 | 256 | 260 |
| Oregon | — | 260 | 259 | 256 | — |
| South Dakota | 238* | 241 | 242 | 240 | 245 |
| Utah | — | — | 235 | 244 | 247 |
| Washington | — | 251 | 253 | 253 | 251 |
| Wisconsin | — | — | — | — | 253 |
| Wyoming | — | — | — | — | — |

— Not available. State was not sampled for NIES reporting of separate state results.
*Significantly different ($p < .05$) from 2015.

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Grades 4 and 8 Reading for AI/AN Students

Comparison of NAEP mathematics average scores for fourth- and eighth-grade AI/AN students in public and BIE schools, by jurisdiction: 2015

| | Grade 4 | Grade 8 |
|-------------------------|---|---|
| ↑ Higher than nation | Oklahoma | Oklahoma |
| ↓ Lower than nation | Alaska Arizona New Mexico South Dakota | Alaska Arizona New Mexico South Dakota |

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Survey Questionnaires

Purpose

- Main Focus of Report:
 - The extent to which AI/AN culture and language is part of the curricula
 - School resources available for improving AI/AN student achievement

The survey included:

Students: knowledge of Native culture and language use

Teachers: knowledge and skill development for teaching AI/AN students, culturally specific instruction, and classroom practices

School Administrators: involvement of AI/AN community members, sufficiency and quality of books specific to AI/AN culture

Student Findings

Percentage distribution of fourth- and eighth-grade AI/AN students who reported on learning about AI/AN traditions, by grade and school type/density: 2015

| Grade and school type/density | Who taught you most of what you know about AI/AN traditions (ways of life, customs)? | | | | | |
|-------------------------------|--|----------------|---------|----------|----------------------------------|--------------|
| | No one | Family members | Friends | Teachers | Tribal representatives or elders | Someone else |
| Grade 4 | | | | | | |
| All AI/AN students | 17 | 55 | 2 | 16 | 8 | 4 |
| Low density public schools | 16 | 55 | 1 | 16 | 7 | 3 |
| High density public schools | 17 | 55 | 2 | 15 | 8 | 4 |
| BIE schools | 13 | 53 | 4 | 15 | 9 | 6 |
| Grade 8 | | | | | | |
| All AI/AN students | 17 | 59 | 1 | 11 | 10 | 2 |
| Low density public schools | 21 | 57 | 1 | 11 | 9 | 2 |
| High density public schools | 14 | 61 | 2 | 11 | 11 | 2 |
| BIE schools | 3 | 65 | 2 | 14 | 12 | 3 |

Explore the 2015 NIES Questionnaire results online:
<http://nces.ed.gov/nationsreportcard/niesdata/>



For more information:

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