



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

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...*

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

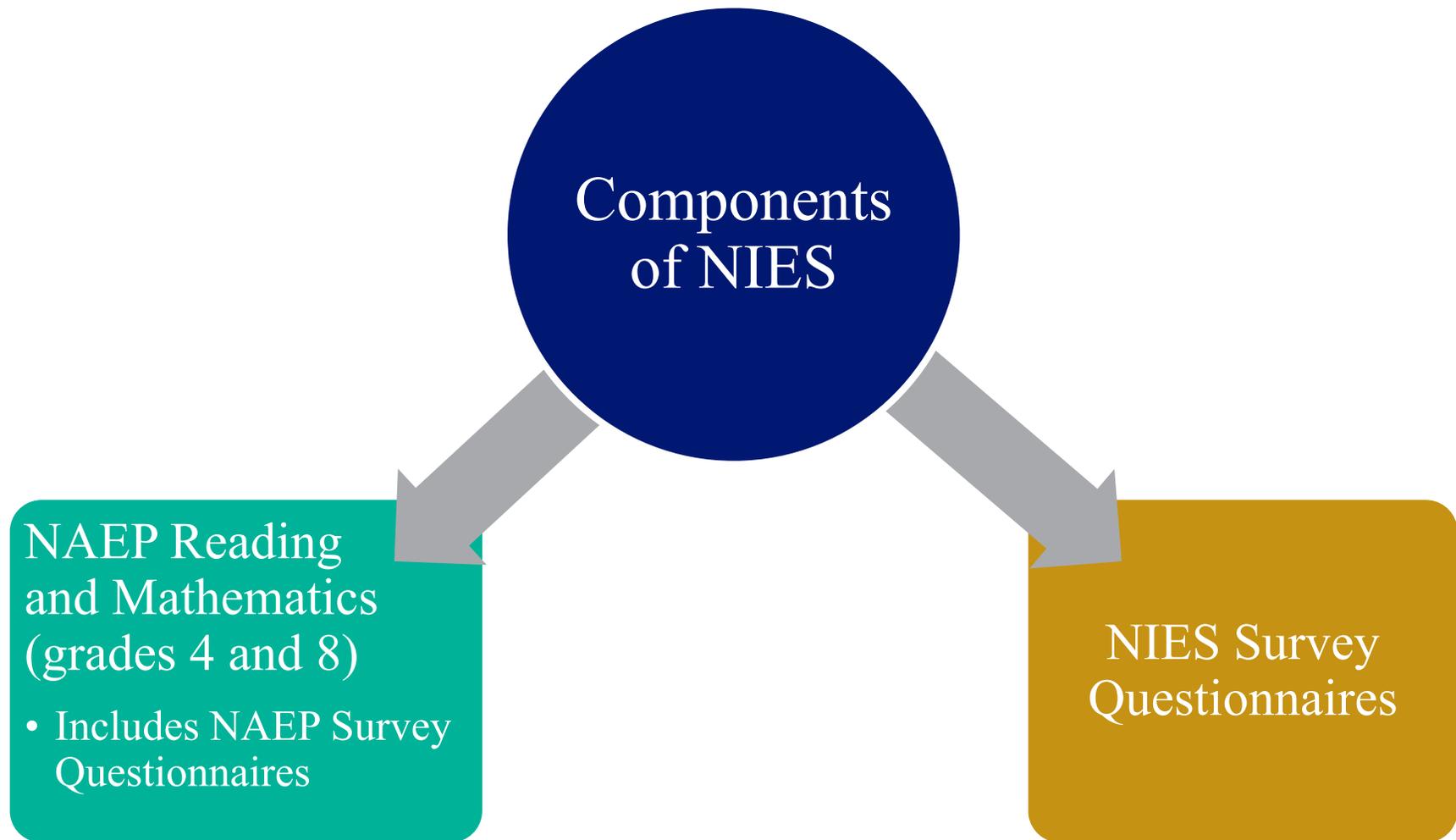


National Indian Education Study

- 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



National Indian Education Study (cont.)



Partners

In collaboration with:



**The Office of
Indian Education**



**Members of the NIES
Technical Review Panel**



**Kauffman
& Associates
INCORPORATED**



**The Bureau of
Indian Education**



**Karen Francis-Begay,
Assistant Vice President of
Tribal Relations**

NIES Results

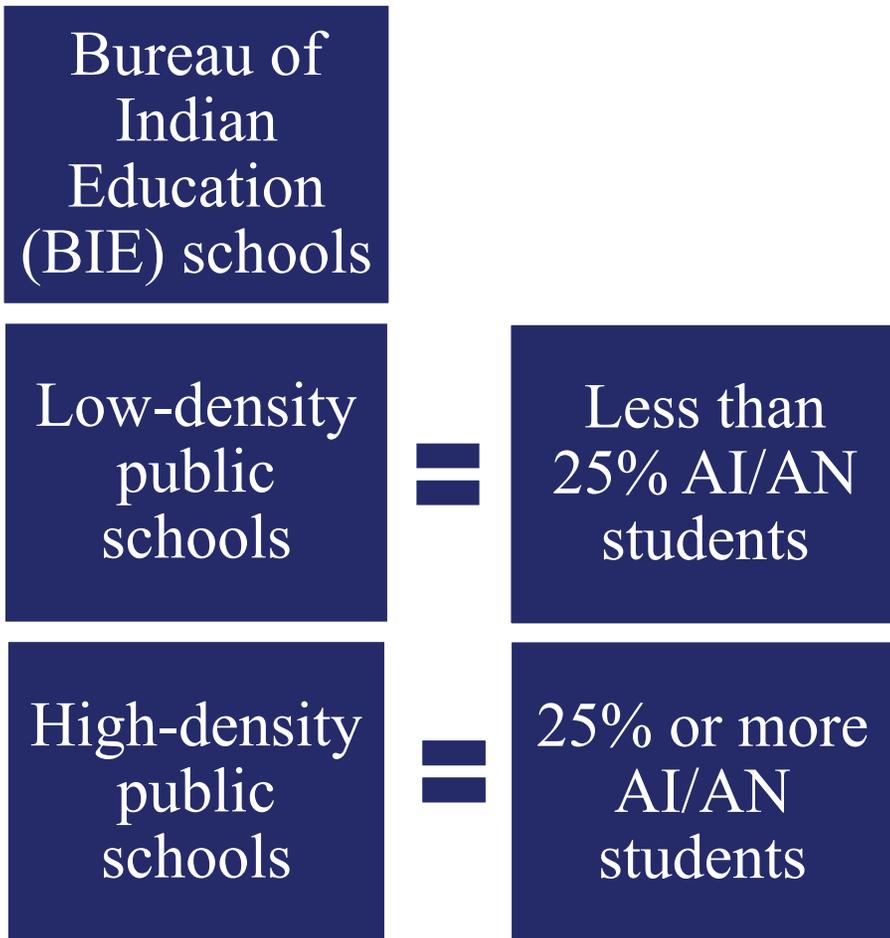
Participation

- 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:



School Categories

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



Grades 4 and 8 Characteristics

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

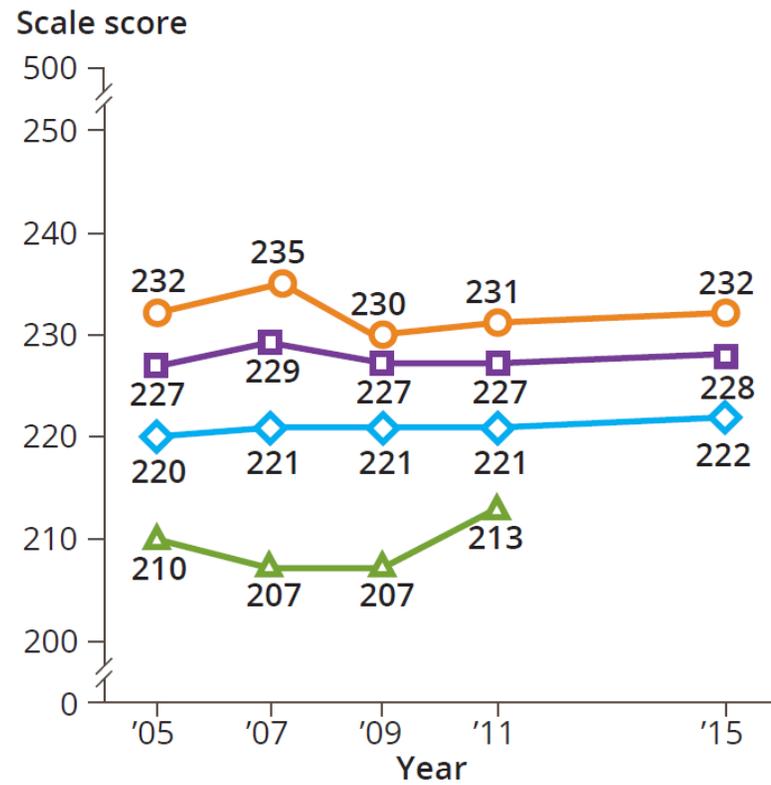
Grade and student characteristics	All AI/AN students	School type/density		
		Low density public schools	High density public schools	BIE schools
Grade 4				
Attend rural schools	45	27	64	88
English language learners	11	6	12	49
Eligible for free/reduced price lunch	73	64	87	94
Computer in home	69	74	63	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.

National Results

Mathematics Grade 4

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

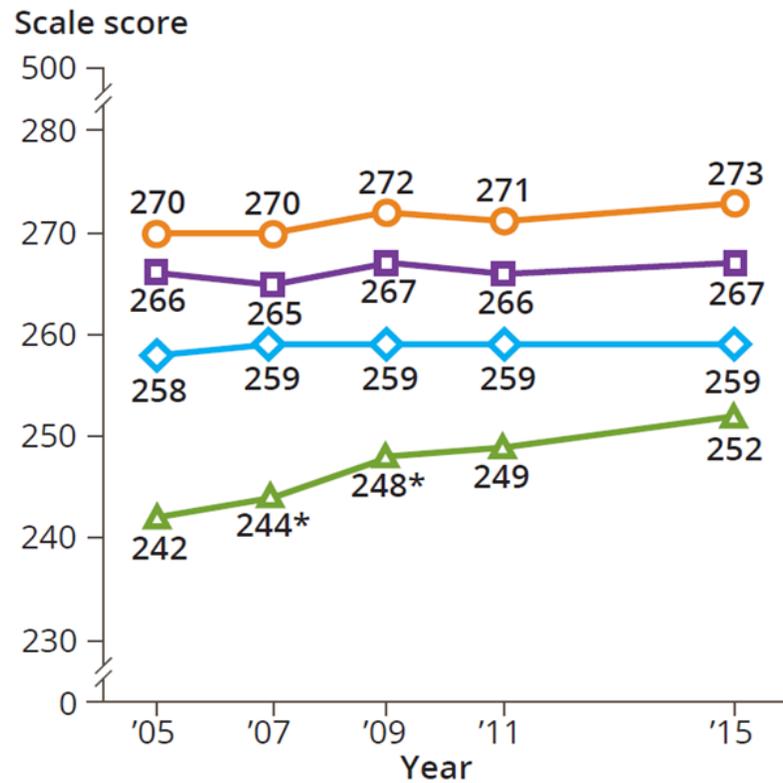


○ Low density public schools ■ All AI/AN students (public) ◆ High density public schools ▲ BIE schools

*Significantly different ($p < .05$) from 2015.

Mathematics Grade 8

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

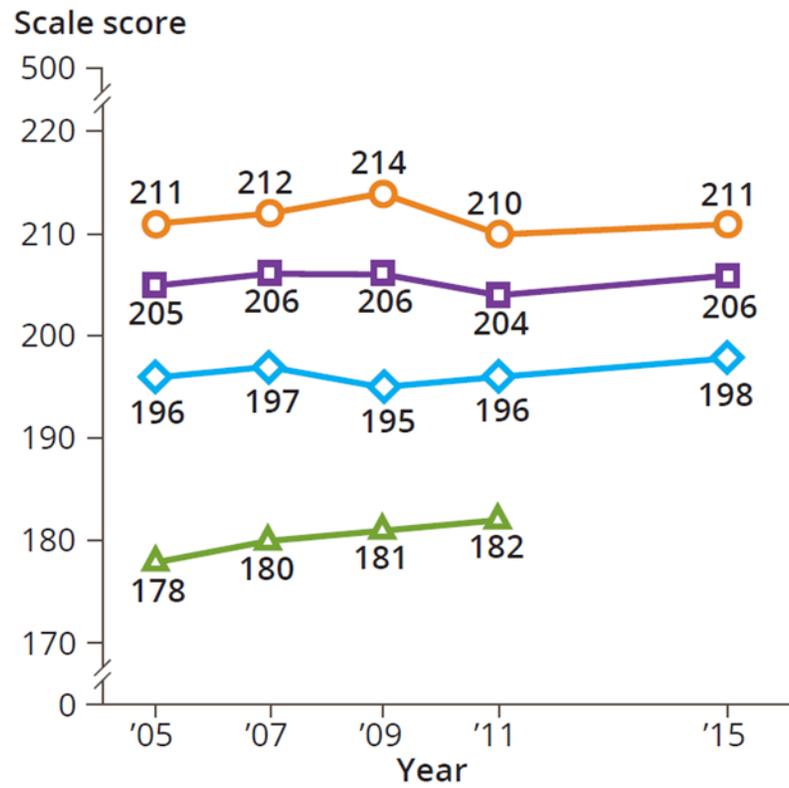


○ Low density public schools ■ All AI/AN students (public) ◆ High density public schools ▲ BIE schools

*Significantly different ($p < .05$) from 2015.

Reading Grade 4

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

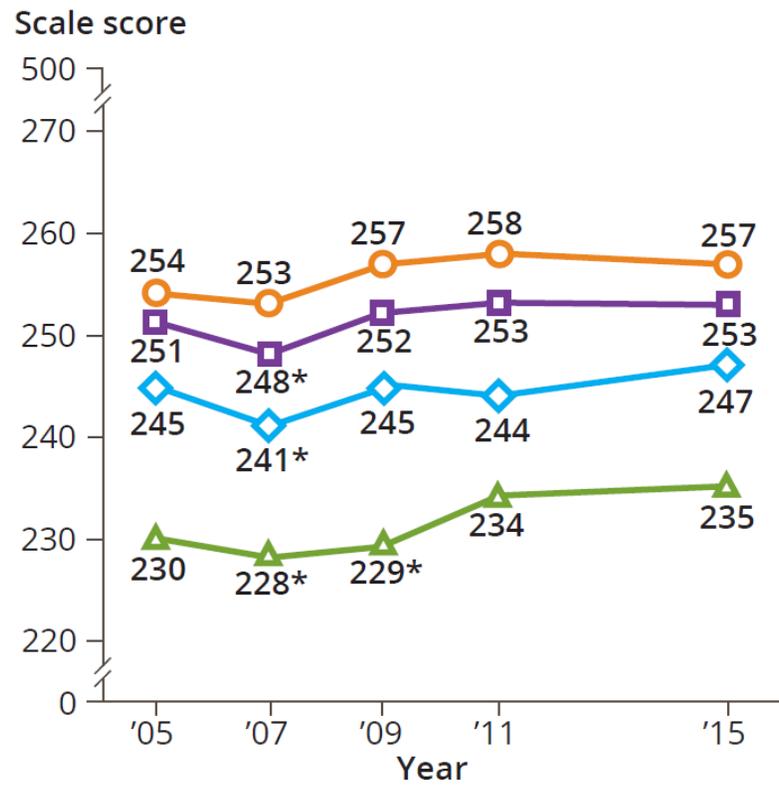


○ Low density public schools ■ All AI/AN students (public) ◆ High density public schools ▲ BIE schools

*Significantly different ($p < .05$) from 2015.

Reading Grade 8

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



○ Low density public schools ■ All AI/AN students (public) ◆ High density public schools ▲ BIE schools

*Significantly different ($p < .05$) from 2015.

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.

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.

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

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.

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.

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

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

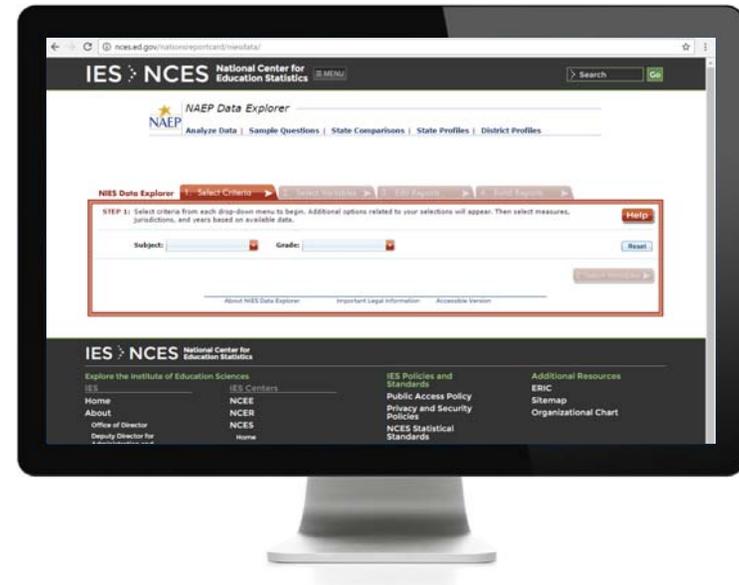
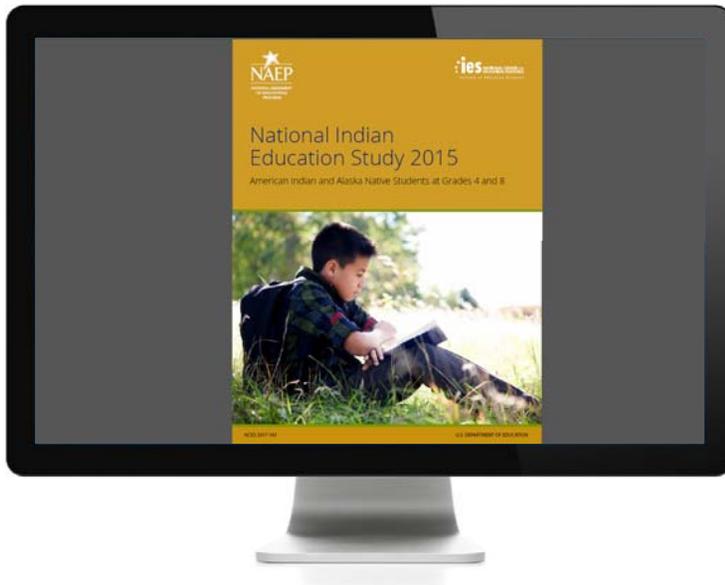
School Administrators: involvement of AI/AN community members, sufficiency and quality of books specific to AI/AN culture

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/>



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