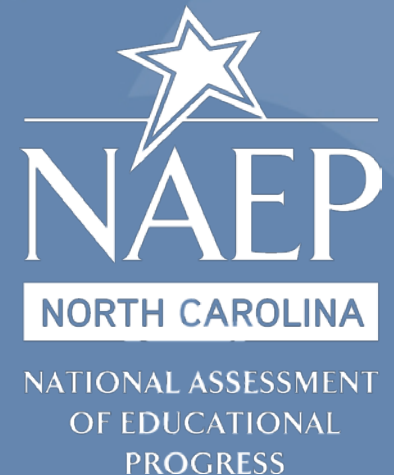




Public Schools of North Carolina

The National Assessment of Educational Progress (NAEP) and Student Achievement in North Carolina


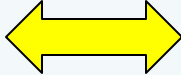
The Gold Standard



NAEP 2015

- 4th Grade
- 8th Grade
- Trends

2015 NAEP Reading Grade 4

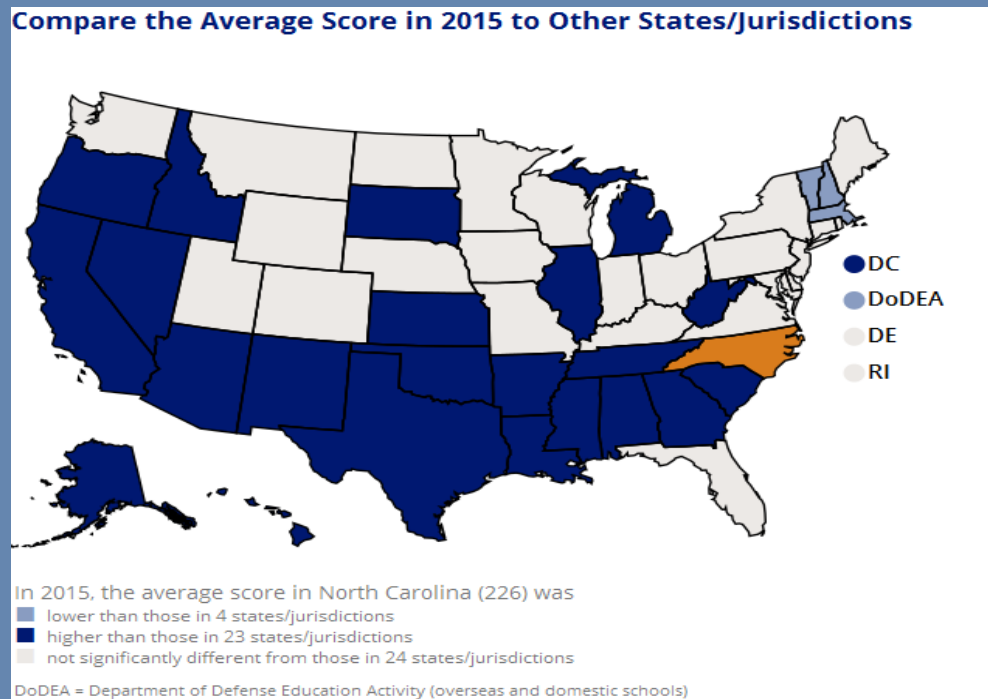
	North Carolina			National Public		
	2013	2015	Change	2013	2015	Change
Average Scale Score	222	226		221	221	

- NC 4th graders increase reading scores
- No increase for the nation

NAEP 2015 Reading Grade 4

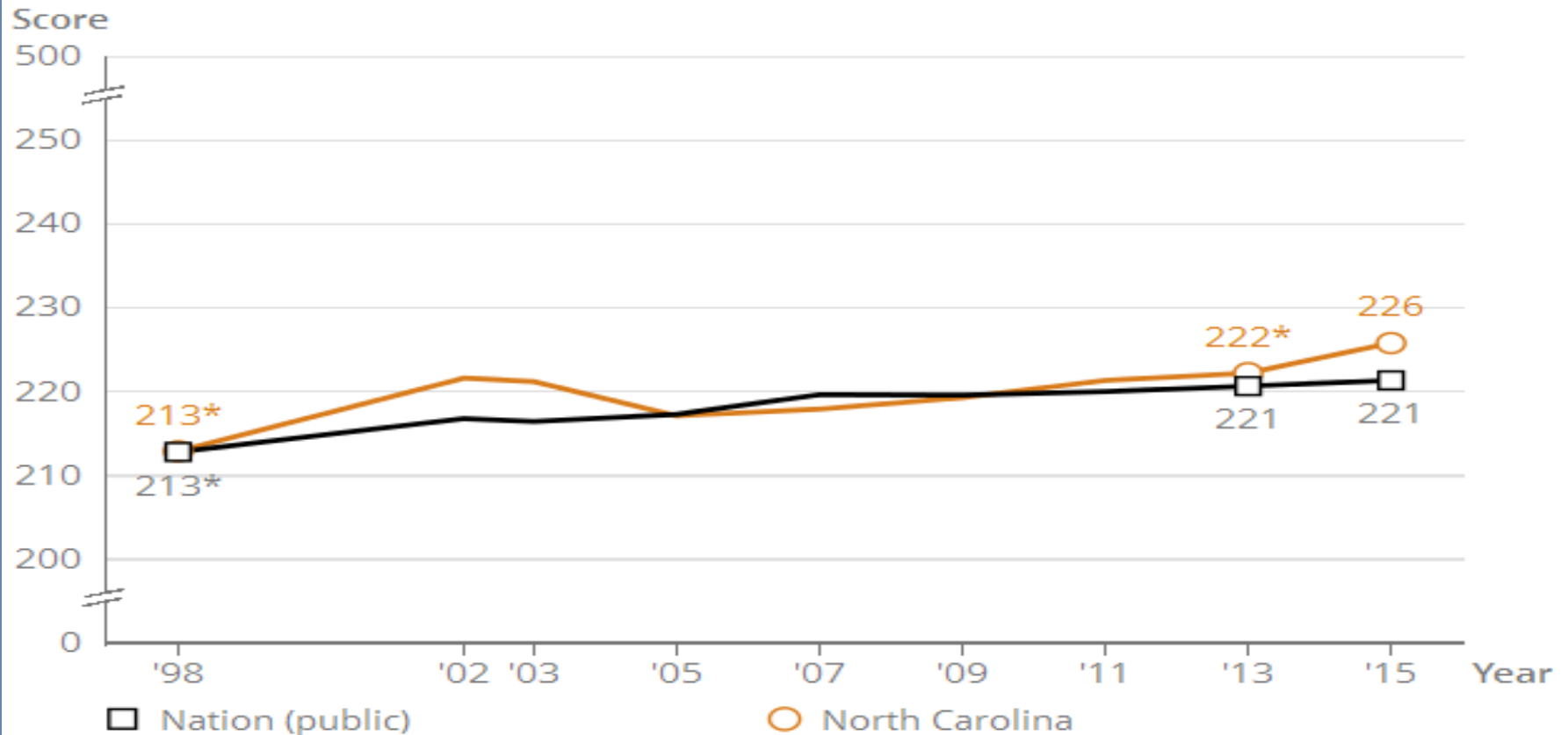
NC (226) Higher Than National Public (221)

- ❑ Lower than 4 states/jurisdictions (in light blue)
- ❑ Higher than 23 states/jurisdictions (in dark blue)
- ❑ Not significantly different from 24 states/jurisdictions (in white)



NAEP Reading Grade 4:1998–2015

Average Scores for State/Jurisdiction and Nation (public)



* Significantly different ($p < .05$) from 2015. Significance tests were performed using unrounded numbers.

2015 NAEP Mathematics Grade 4

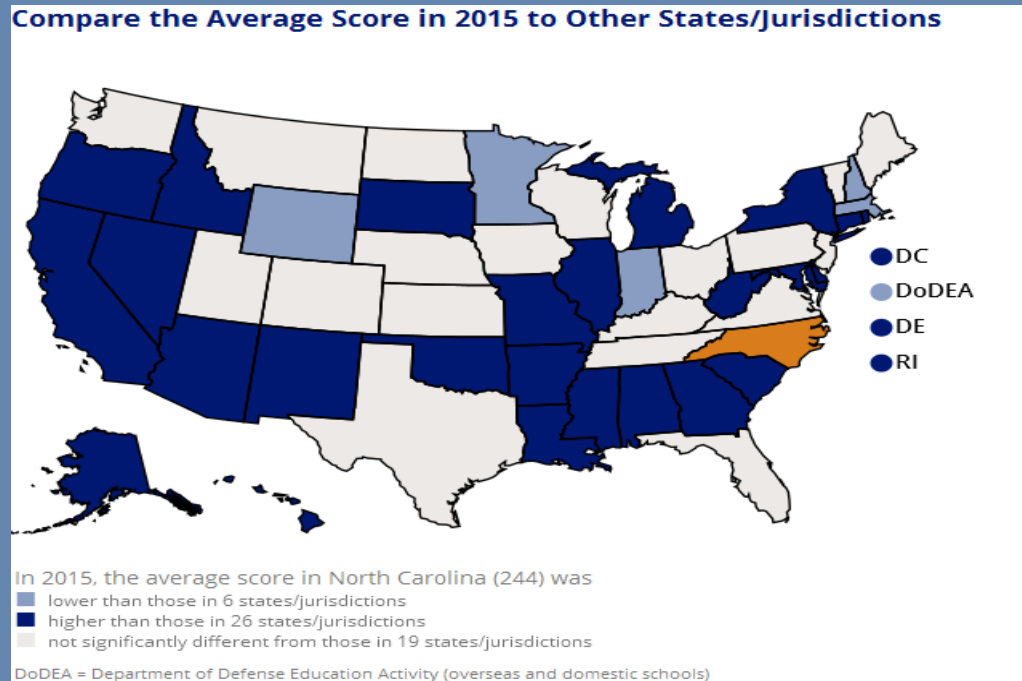
	North Carolina			National Public		
	2013	2015	Change	2013	2015	Change
Average Scale Score	245	244	↔	241	240	↓

- NC 4th graders maintain math score
- Nation as a whole declined

NAEP 2015 Mathematics Grade 4

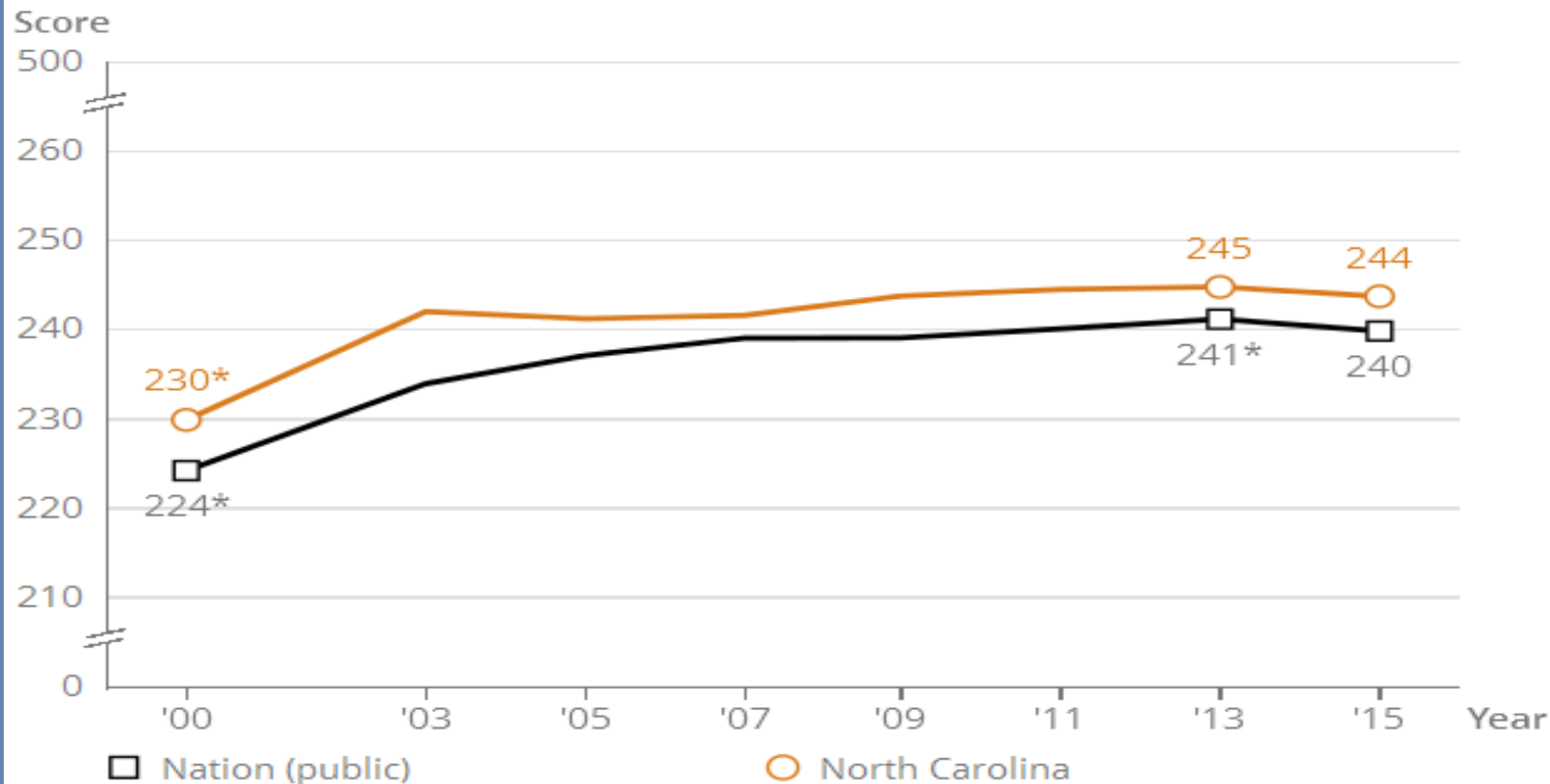
NC (244) Higher Than National Public (240)

- ❑ Lower than 6 states/jurisdictions (in light blue)
- ❑ Higher than 26 states/jurisdictions (in dark blue)
- ❑ Not significantly different from 19 states/jurisdictions (in white)





NAEP Math Grade 4: 2000–2015

Average Scores for State/Jurisdiction and Nation (public)



* Significantly different ($p < .05$) from 2015. Significance tests were performed using unrounded numbers.

2015 NAEP Reading Grade 8

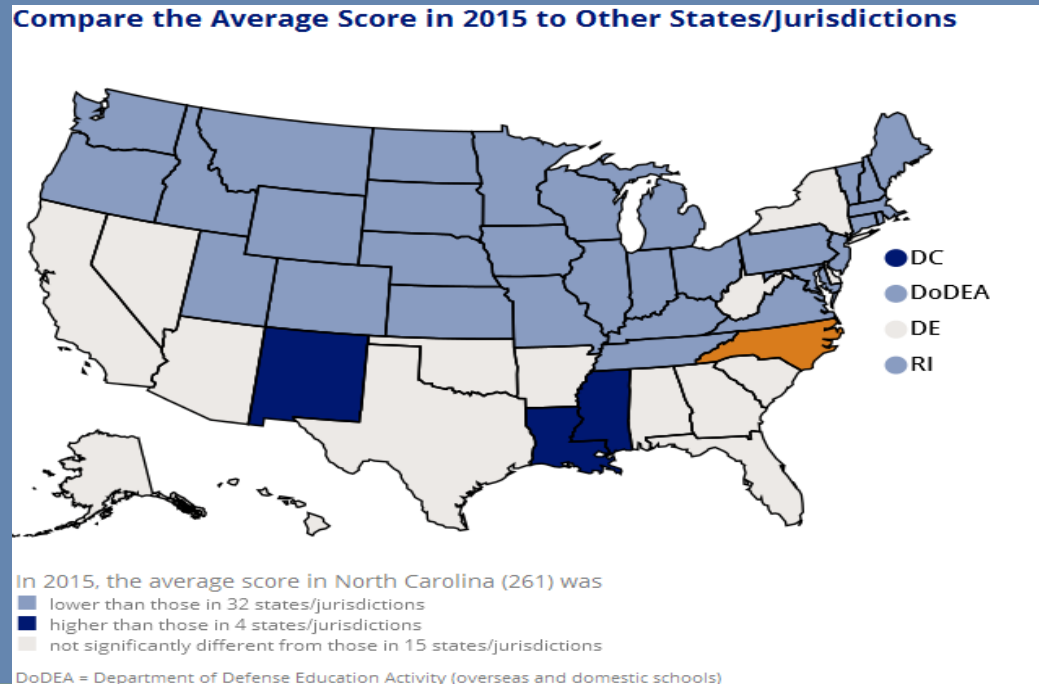
	North Carolina			National Public		
	2013	2015	Change	2013	2015	Change
Average Scale Score	265	261		266	264	

- Unprecedented declines in the nation
- Similar decline in NC

NAEP 2015 Reading Grade 8

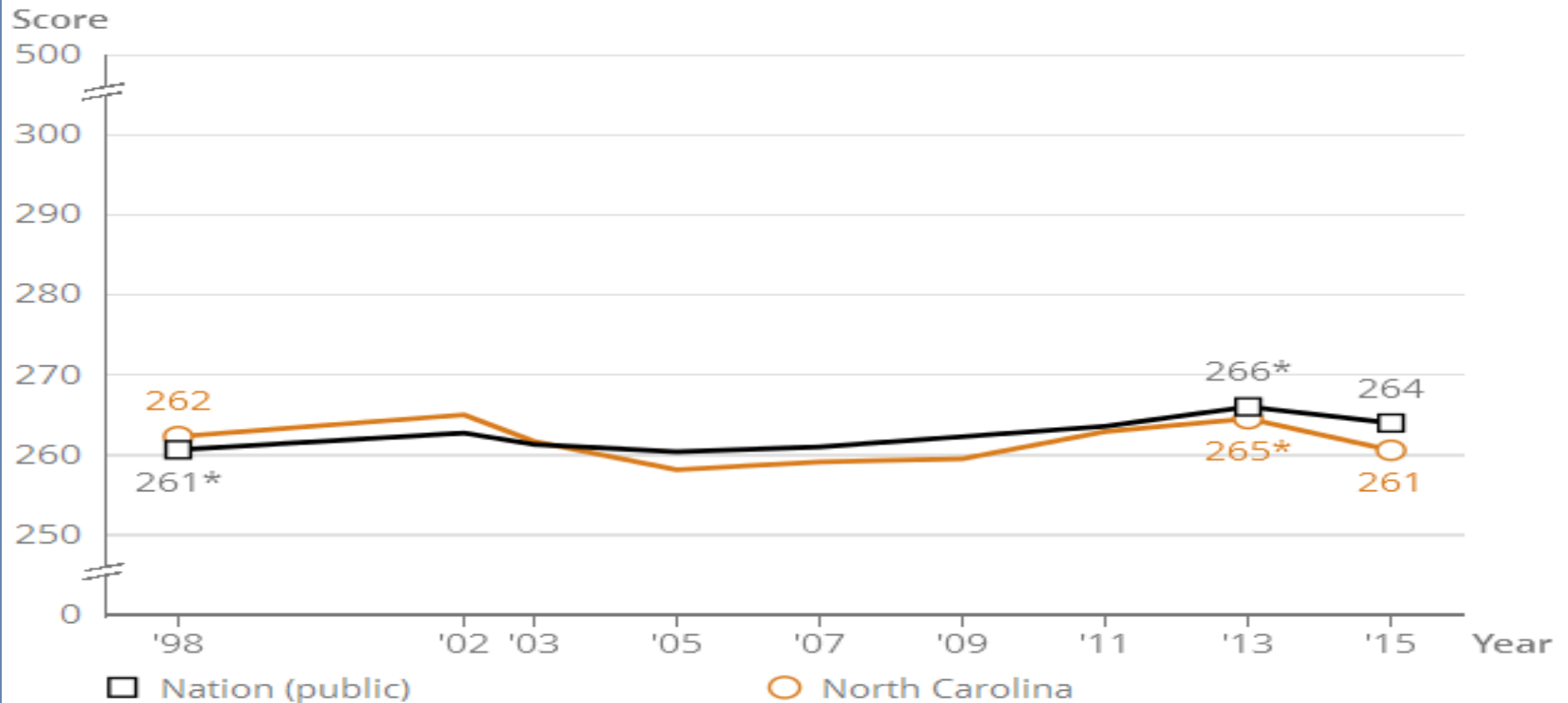
NC (261) Lower than National Public (264)

- ❑ Lower than 32 states/jurisdictions (in light blue)
- ❑ Higher than 4 states/jurisdictions (in dark blue)
- ❑ Not significantly different from 15 states/jurisdictions (in white)





NAEP Reading Grade 8:1998–2015

Average Scores for State/Jurisdiction and Nation (public)



* Significantly different ($p < .05$) from 2015. Significance tests were performed using unrounded numbers.

2015 NAEP Mathematics Grade 8

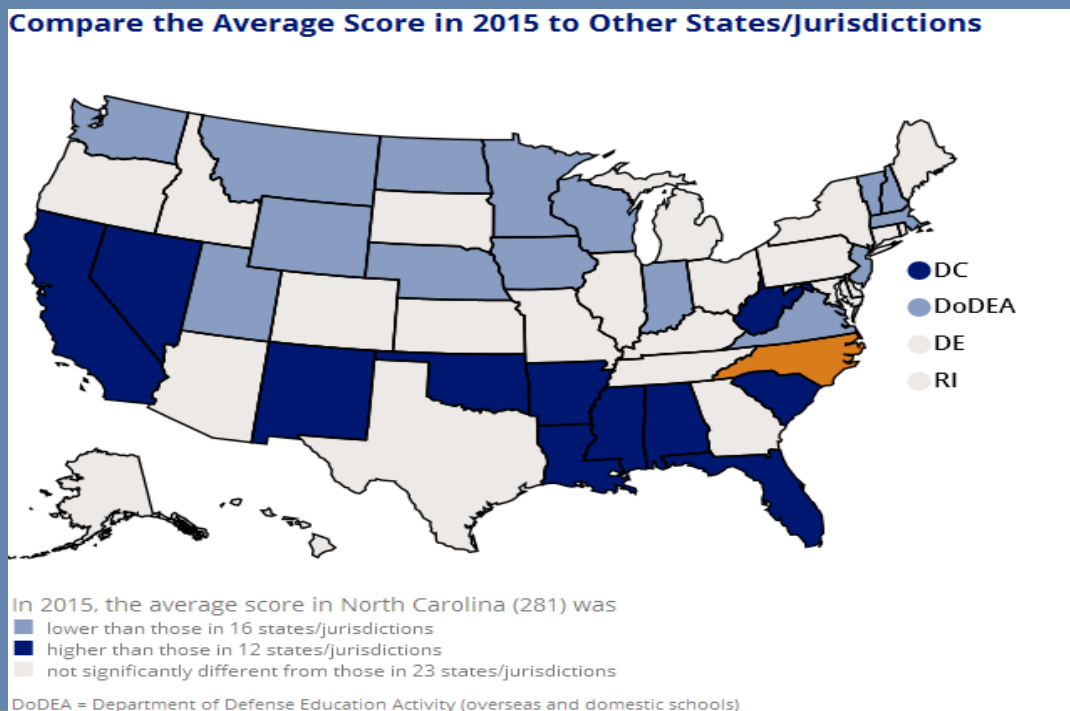
	North Carolina			National Public		
	2013	2015	Change	2013	2015	Change
Average Scale Score	286	281		284	281	

- Unprecedented declines in the nation
- Similar decline in NC

NAEP 2015 Mathematics Grade 8

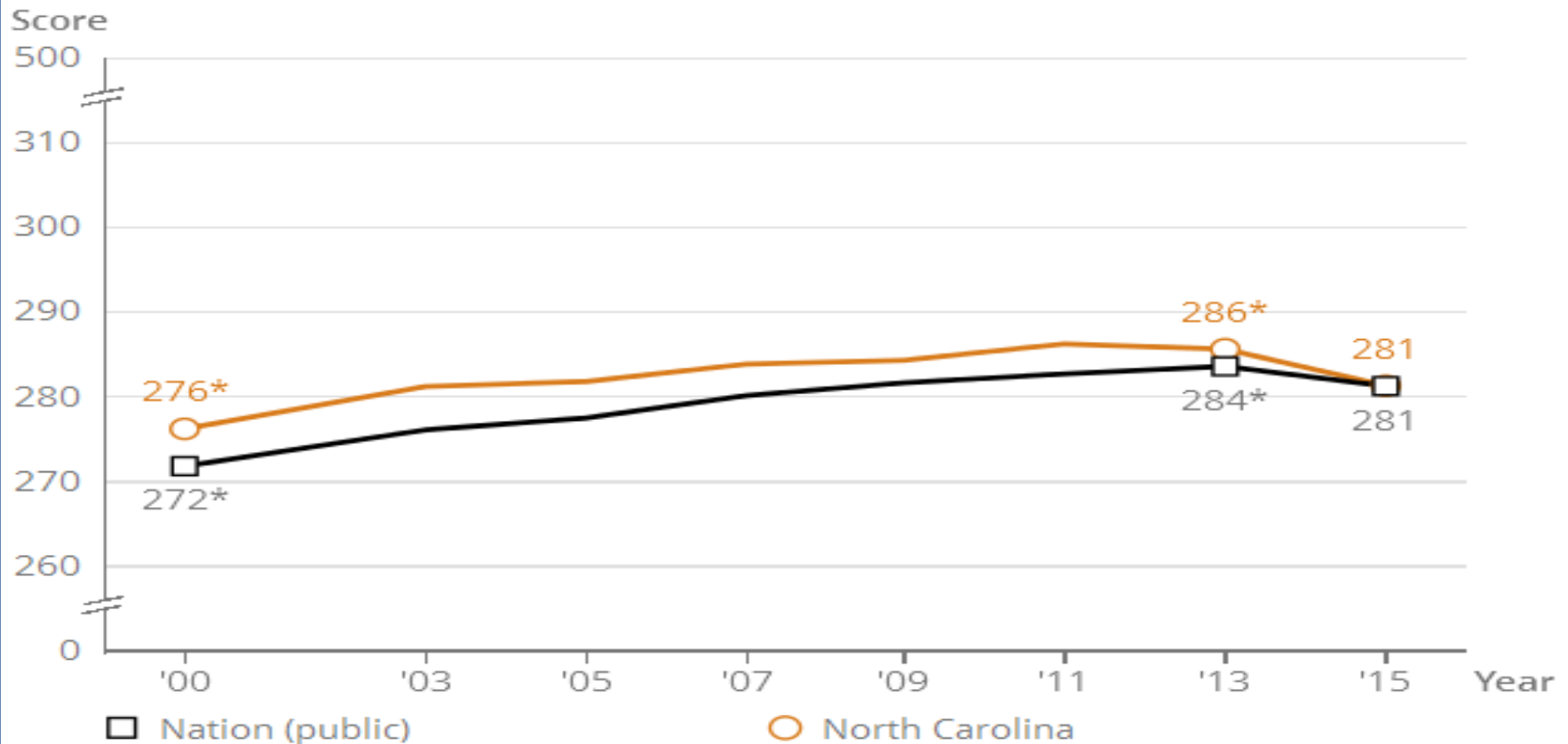
NC (281) Not Significantly Different Than National Public (281)

- ❑ Lower than 16 states/jurisdictions (in light blue)
- ❑ Higher than 12 states/jurisdictions (in dark blue)
- ❑ Not significantly different from 23 states/jurisdictions (in white)



NAEP Math Grade 8: 2000–2015

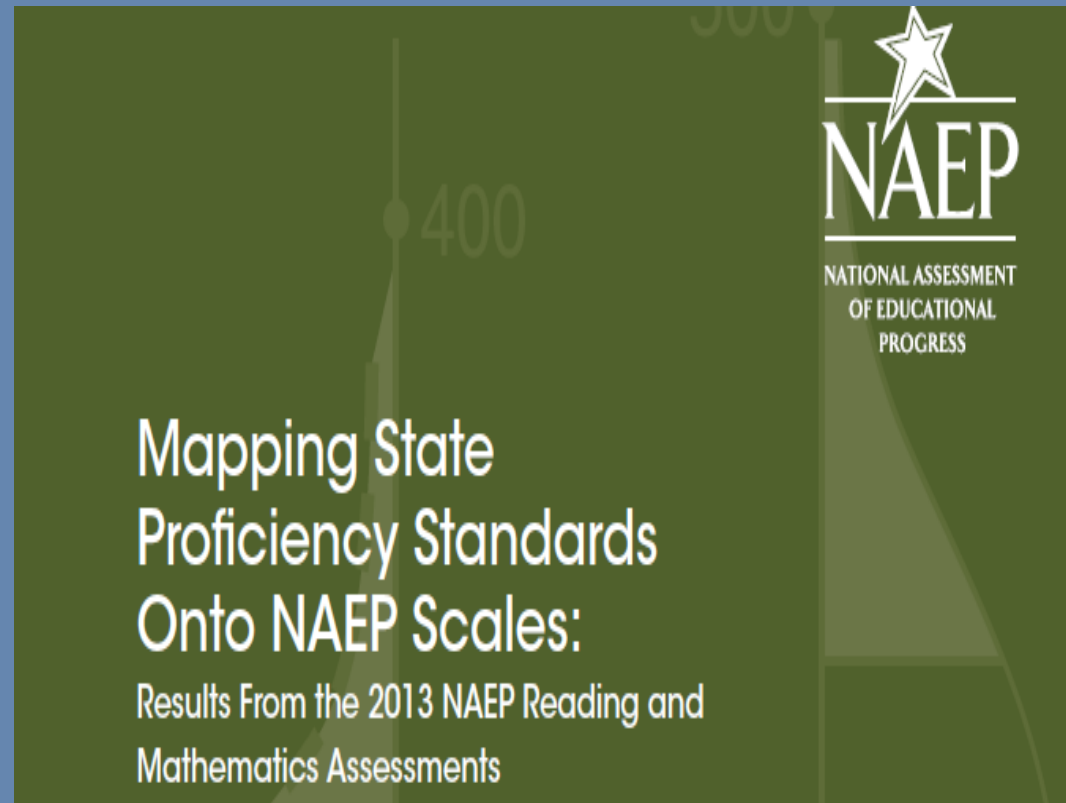
Average Scores for State/Jurisdiction and Nation (public)



* Significantly different ($p < .05$) from 2015. Significance tests were performed using unrounded numbers.

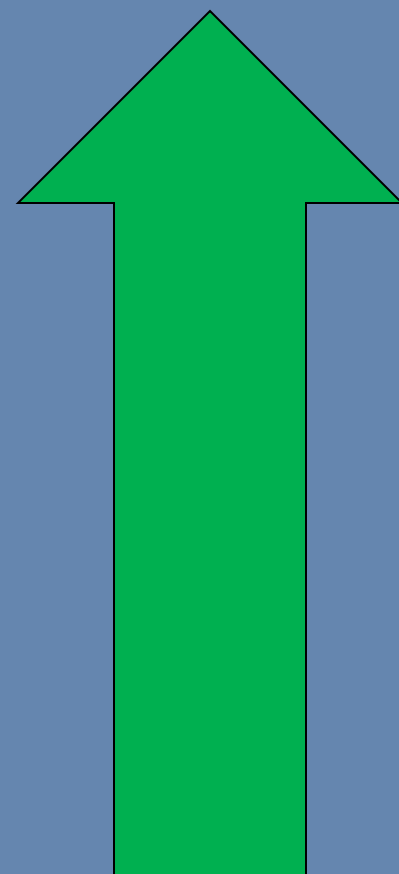
How Do NC End of Grade (EOG) Results Compare With NAEP?

- National Center for Educational Statistics (NCES) conducted 2013 NAEP mapping study to determine current rigor of state standards
- NCES study determined increased rigor in NC standards over the decades



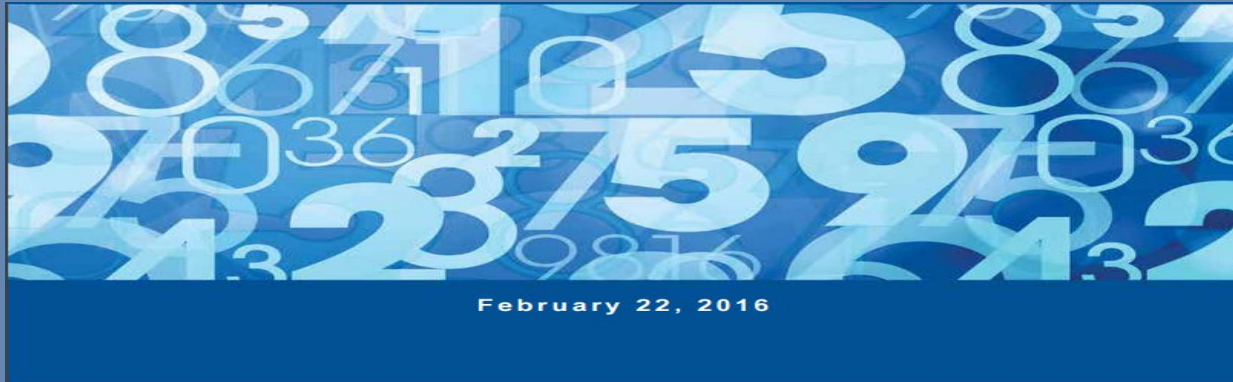
NAEP 2013 State Comparison Showed Increased Rigor In NC Proficiency Standards

Grade	Subject	Year	Rank
Grade 4	Reading	2013	4
Grade 4	Reading	2011	24
Grade 4	Mathematics	2013	5
Grade 4	Mathematics	2011	35
Grade 8	Reading	2013	3
Grade 8	Reading	2011	25
Grade 8	Mathematics	2013	3
Grade 8	Mathematics	2011	45



AIR National Benchmarks: NC Levels Mapped to NAEP

<u>Grade 4 ELA</u>	<u>Grade 4 Math</u>	<u>Grade 8 ELA</u>	<u>Grade 8 Math</u>
Level 4-Basic	Level 4-Basic	Level 4-Basic	Level 4-Basic
Level 5-Advanced	Level 5-Proficient	Level 5-Proficient	Level 5-Proficient



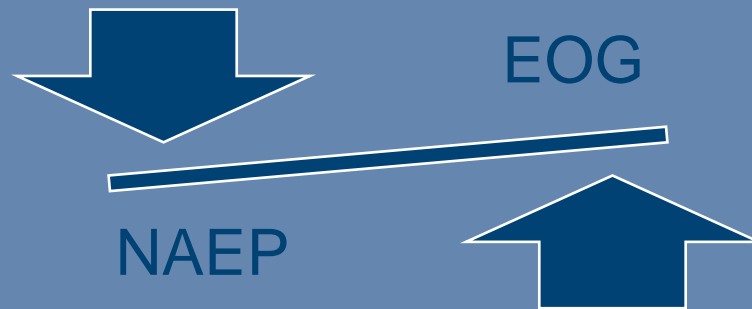
Achieve Conducted Rigor Studies In 2015 And 2016

- *Achieve* study compared state proficiency standards to NAEP proficiency standards
- *Achieve* rank ordered states

Achieve 2015

Report Methodology

- *Achieve* compared EOG data from 2013–14 and NAEP data from Spring 2013
- *Achieve* concluded positive correlation for states within 15 points of NAEP proficiency percentage
- *Achieve* outcome in 2015: North Carolina—Positive correlation with NAEP grade 8 mathematics



2015 *Achieve* Report

Percent NC EOG Grade 4 Reading (Level 3 and above)	Percent NAEP Grade 4 Reading (at or above proficient)	Difference
56	35	21
Percent NC EOG Grade 8 Mathematics (Level 3 and above)	Percent NAEP Grade 8 Mathematics (at or above proficient)	Difference
42	36	6

2015 States Recognized for Positive Correlation with NAEP

Reading 4th Grade

New York
Wisconsin
Utah
Alabama
Massachusetts
Missouri
Minnesota
Tennessee

Mathematics 8th Grade

New York
Massachusetts
Utah
Michigan
North Carolina
Wisconsin
Nevada
Alabama
Colorado
Minnesota
Wyoming
Washington
Kentucky
West Virginia

Achieve 2016

Same Report: Different Methodology

- *Achieve* analysis concluded positive correlation for any state within 5 points of NAEP proficiency percentage rather than 15 points as used in 2015
- Also changed—In 2015 many other states began implementing new assessments more rigorous than their previous assessments

2016 Achieve Results

Percent NC EOG Grade 4 Reading (Level 3 and above)	Percent NAEP Grade 4 Reading (at or above proficient)	Difference
59	38	21
Percent NC EOG Grade 8 Mathematics (Level 3 and above)	Percent NAEP Grade 8 Mathematics (at or above proficient)	Difference
43	33	10

States Recognized for Positive Correlation with NAEP-2016

Arizona, Arkansas Colorado, Connecticut, Delaware, D.C., Georgia, Idaho, Illinois, Maine, Maryland, Massachusetts, Michigan, Mississippi, New Hampshire, New Mexico, New York, Rhode Island, South Dakota, South Carolina, Utah, Vermont, West Virginia, and Wisconsin

Achieve

2015 Result

(If using CCR Proficiency)

Percent NC EOG Grade 4 Reading (Level 4 and above)	Percent NAEP Grade 4 Reading (at or above proficient)	Difference
45	35	10
Percent NC EOG Grade 8 Mathematics (Level 4 and above)	Percent NAEP Grade 8 Mathematics (at or above proficient)	Difference
35	36	1

Achieve

2016 Result

(If using CCR Proficiency)

Percent NC EOG Grade 4 Reading (Level 4 and above)	Percent NAEP Grade 4 Reading (at or above proficient)	Difference
47	38	9
Percent NC EOG Grade 8 Mathematics (Level 4 and above)	Percent NAEP Grade 8 Mathematics (at or above proficient)	Difference
36	33	3

Discussion and Questions

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