

NAEP 2024 Mathematics and Reading Results Grades 4 and 8

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Chief Accountability Officer*

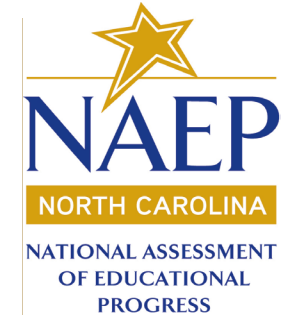
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Senior Director, Office of Accountability and Testing*

*Curtis Sonneman
Section Chief, Analysis and Reporting*

February 5, 2025



What is NAEP?



- The only assessment that measures what U.S. students know and can do in various subjects across the nation, states, and in some cases, urban districts.
 - NAEP results are released as “The Nation’s Report Card”
 - www.nationsreportcard.gov
-

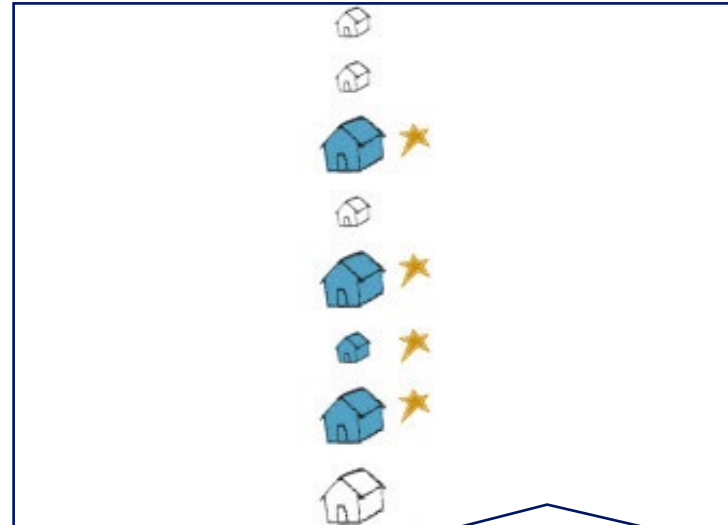


National Assessment of
Educational Progress

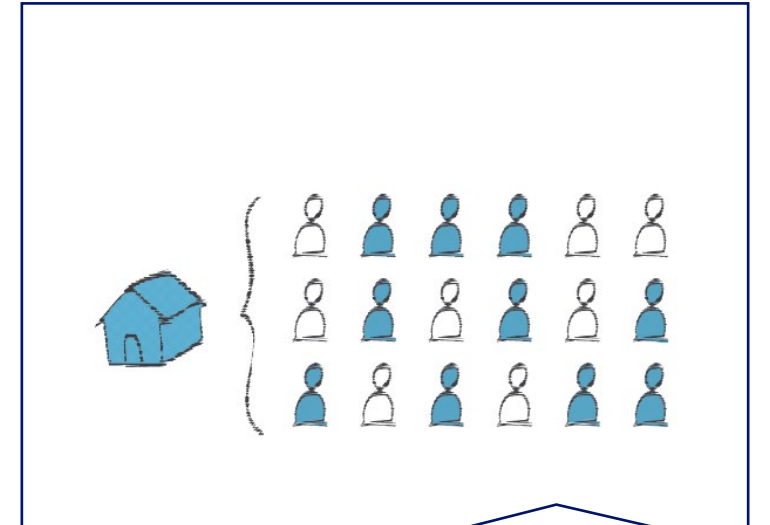
NAEP School and Student Selection



1. Identify all eligible schools



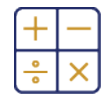
2. Sample schools



3. Sample students

Sample Sizes (North Carolina)

- Representative samples of schools and students



Mathematics



Reading

	Schools	Students	Schools	Students
Grade 4	170	3,700	170	3,700
Grade 8	140	3,600	140	3,700

NOTE: Student sample sizes rounded to the nearest hundred. School sample sizes rounded to the nearest ten.

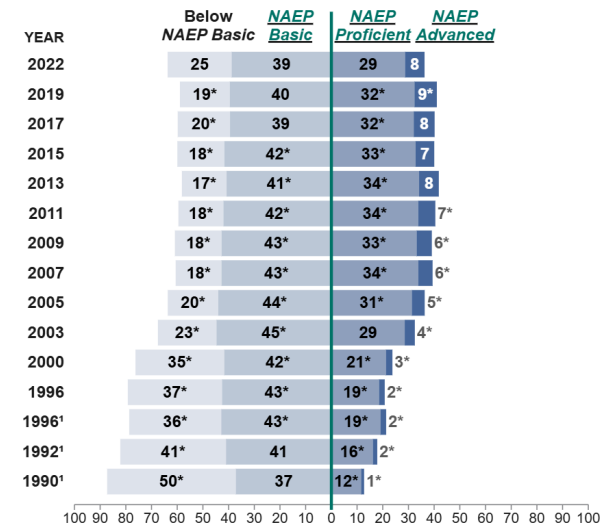
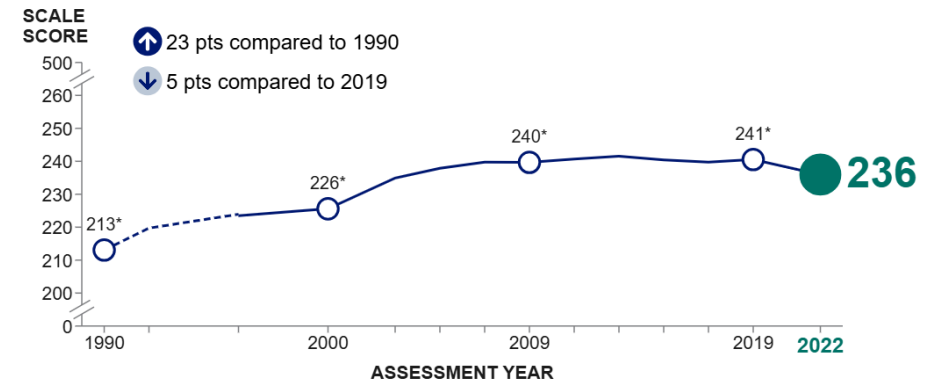
NAEP Results

- Scale Scores

- 0–500 on mathematics and reading assessments
- Cannot be compared across grade levels or content areas

- Achievement Levels

- NAEP Advanced
- NAEP Proficient
- NAEP Basic
- Below NAEP Basic



National Assessment of Educational Progress (NAEP) 2024 Statistical Summary Compared with 2019 North Carolina Performance Compared to the Nation's Public Schools

Legend	
	Above the Nation (statistically)
	Same as the Nation (statistically)
	Below the Nation (statistically)
▲	NC Score/percentages in 2024 higher (statistically) than previous administration (2019)
=	NC Score/percentages in 2024 same (statistically) as previous administration (2019)
▼	NC Score/percentages in 2024 lower (statistically) than previous administration (2019)

	READING		MATHEMATICS	
	2019	2024	2019	2024
Grade 4 <i>Scale Scores</i>	221	213 ▼	241	239 =
Grade 8 <i>Scale Scores</i>	263	255 ▼	284	276 ▼

Grade 4 <i>At or above Basic</i>	67%	58% ▼	82%	77% ▼
Grade 8 <i>At or above Basic</i>	72%	65% ▼	71%	62% ▼

Grade 4 <i>At or above Proficient</i>	36%	30% ▼	41%	41% =
Grade 8 <i>At or above Proficient</i>	33%	27% ▼	37%	31% ▼

National Assessment of Educational Progress (NAEP) 2024 Statistical Summary Compared with 2022 North Carolina Performance Compared to the Nation's Public Schools

Legend	
	Above the Nation (statistically)
	Same as the Nation (statistically)
	Below the Nation (statistically)
▲	NC Score/percentages in 2024 higher (statistically) than previous administration (2022)
=	NC Score/percentages in 2024 same (statistically) as previous administration (2022)
▼	NC Score/percentages in 2024 lower (statistically) than previous administration (2022)

	READING		MATHEMATICS	
	2022	2024	2022	2024
Grade 4 <i>Scale Scores</i>	216	213 =	236	239 =
Grade 8 <i>Scale Scores</i>	256	255 =	274	276 =

Grade 4 <i>At or above Basic</i>	61%	58% =	75%	77% =
Grade 8 <i>At or above Basic</i>	66%	65% =	61%	62% =

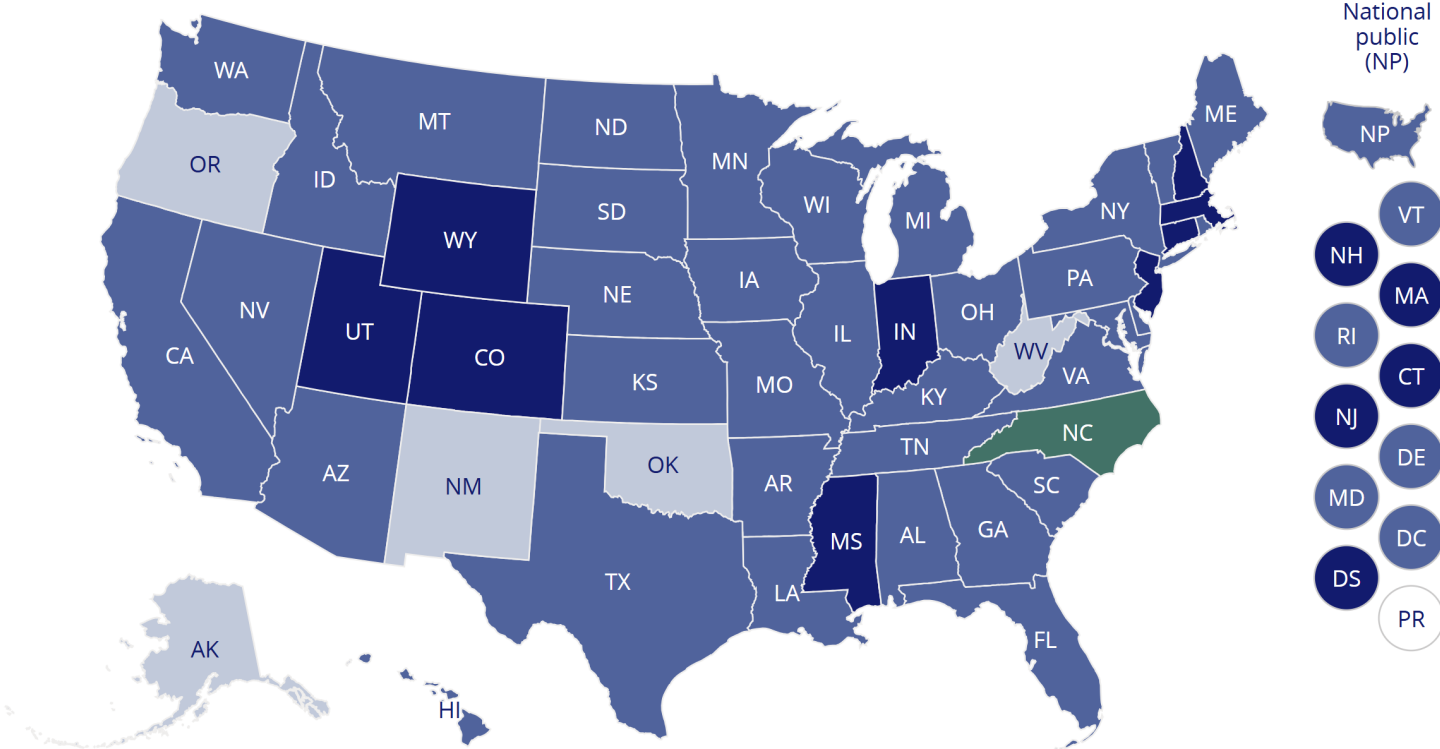
Grade 4 <i>At or above Proficient</i>	32%	30% =	35%	41% ▲
Grade 8 <i>At or above Proficient</i>	26%	27% =	25%	31% ▲

State Comparisons Grade 4 Reading



Reading, Grade 4

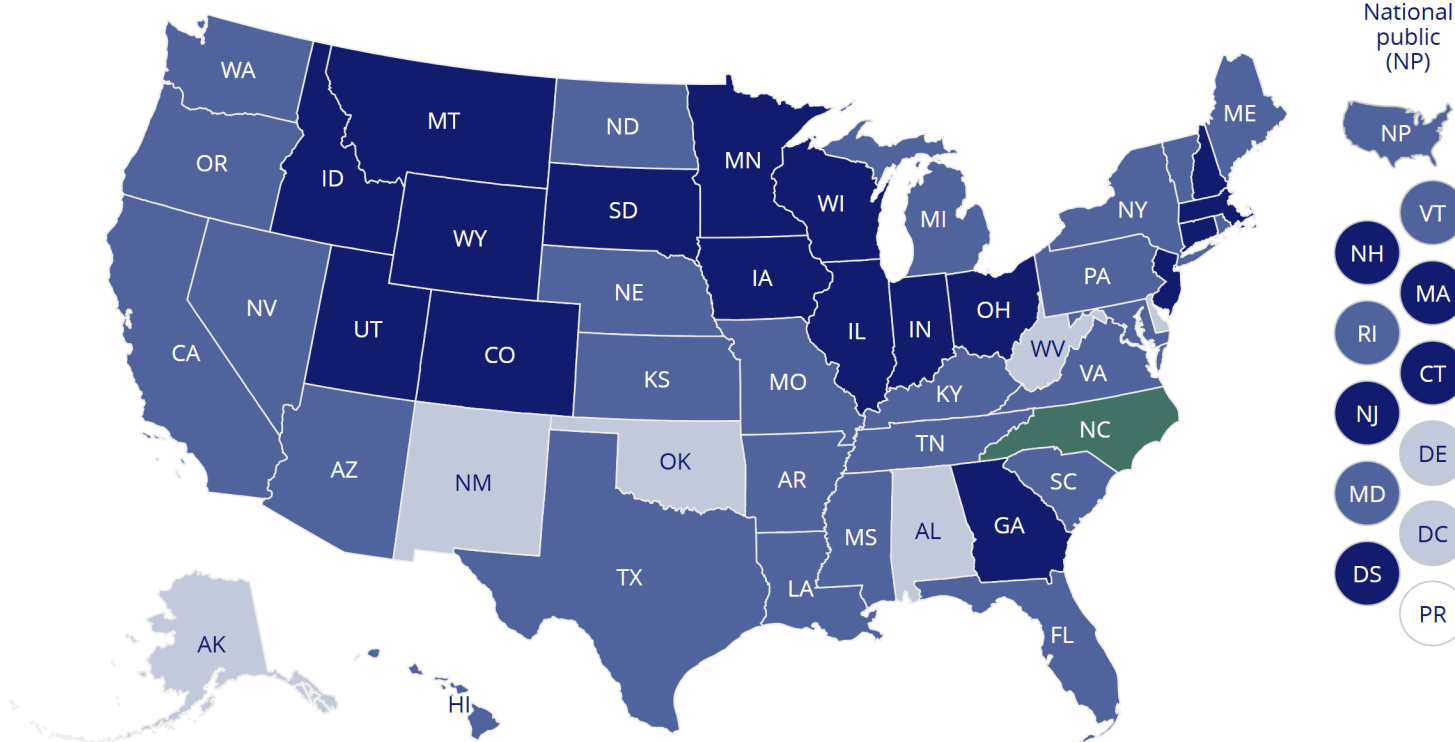
Difference in average scale scores between all jurisdictions and North Carolina, for All students [TOTAL], 2024



State Comparisons Grade 8 Reading



Reading, Grade 8
Difference in average scale scores between all jurisdictions and North Carolina, for All students [TOTAL], 2024

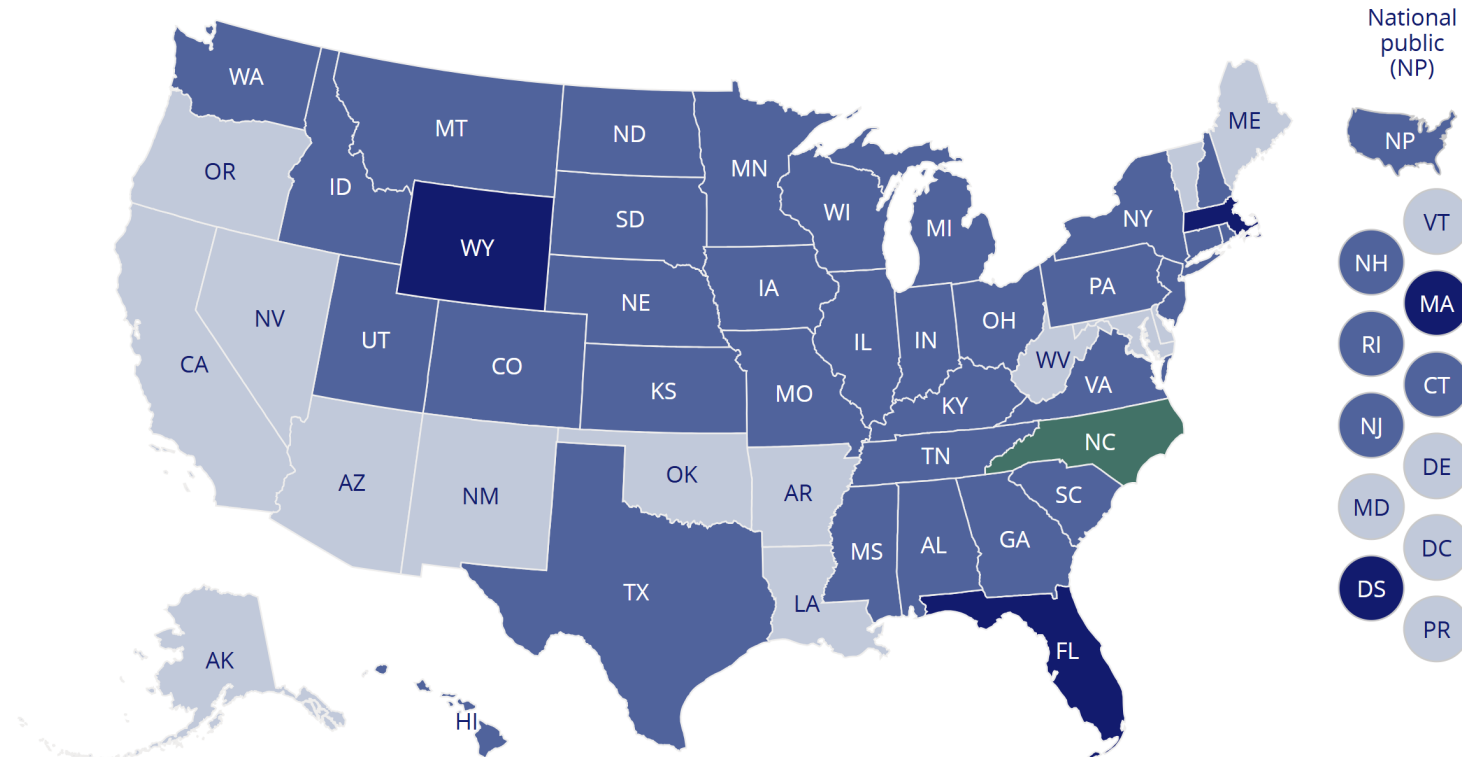


State Comparisons Grade 4 Mathematics



Mathematics, Grade 4

Difference in average scale scores between all jurisdictions and North Carolina, for All students [TOTAL], 2024

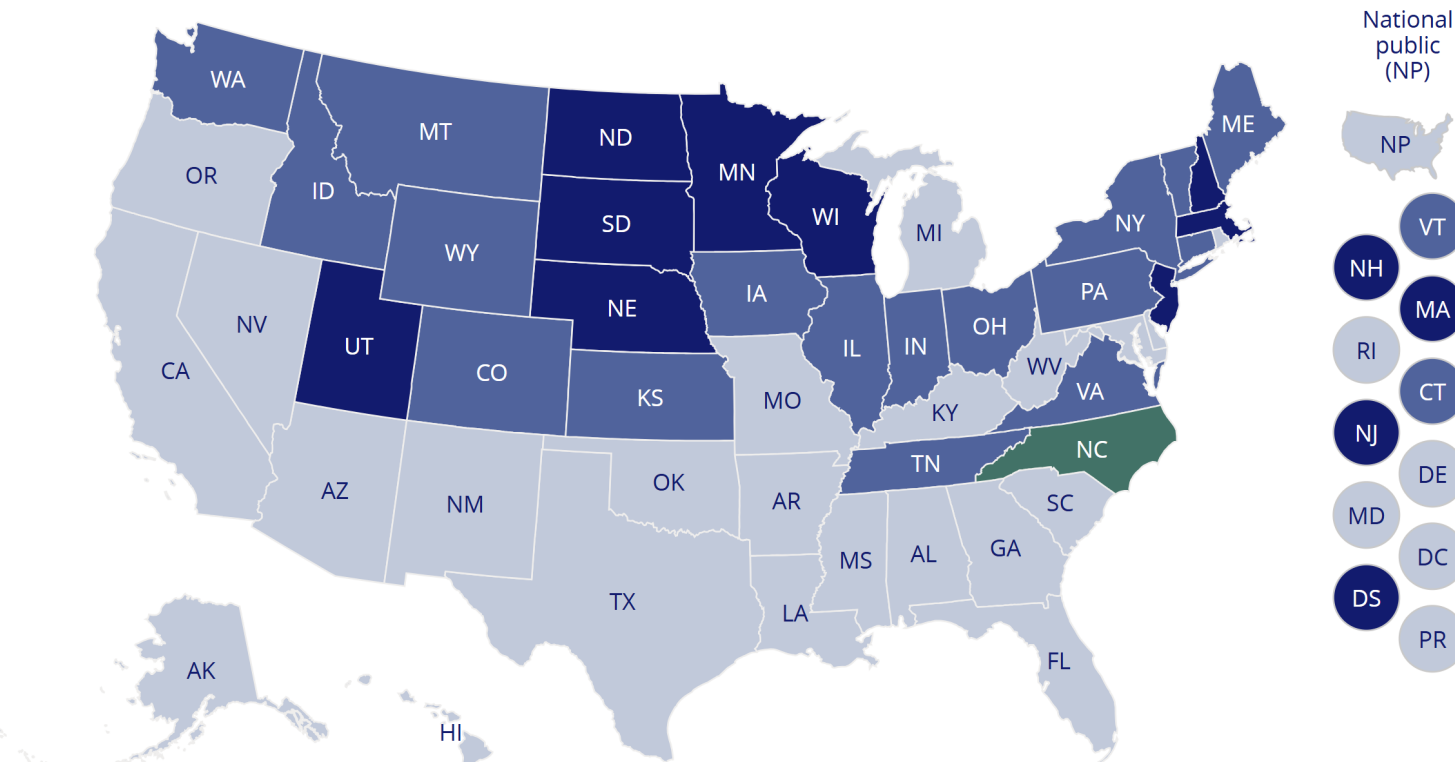


State Comparisons Grade 8 Mathematics

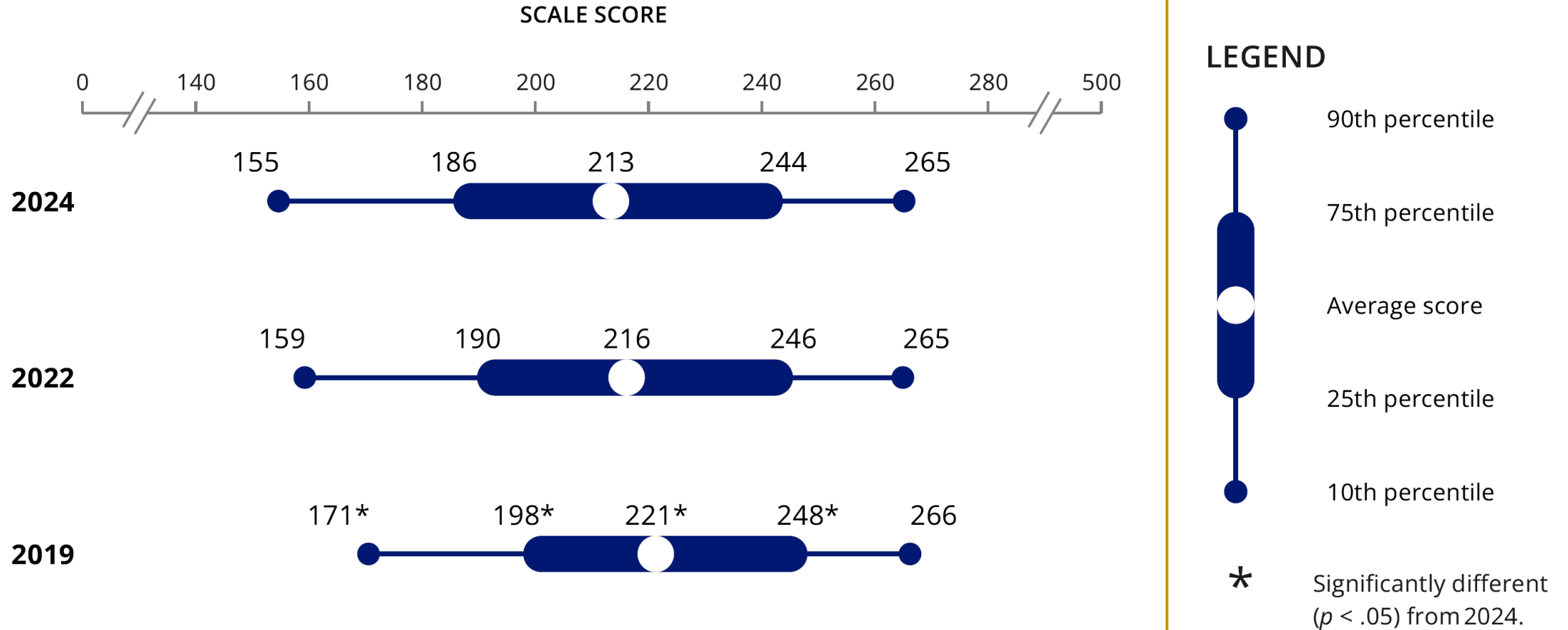


Mathematics, Grade 8

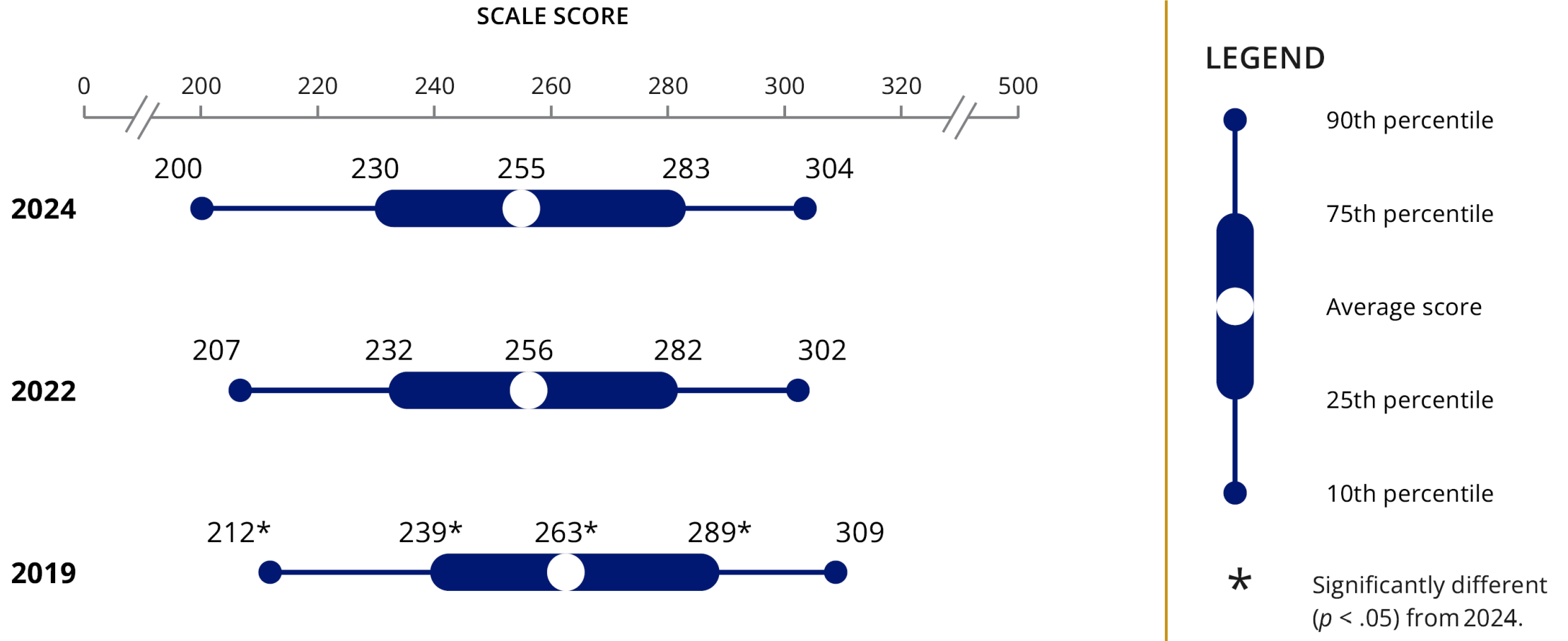
Difference in average scale scores between all jurisdictions and North Carolina, for All students [TOTAL], 2024



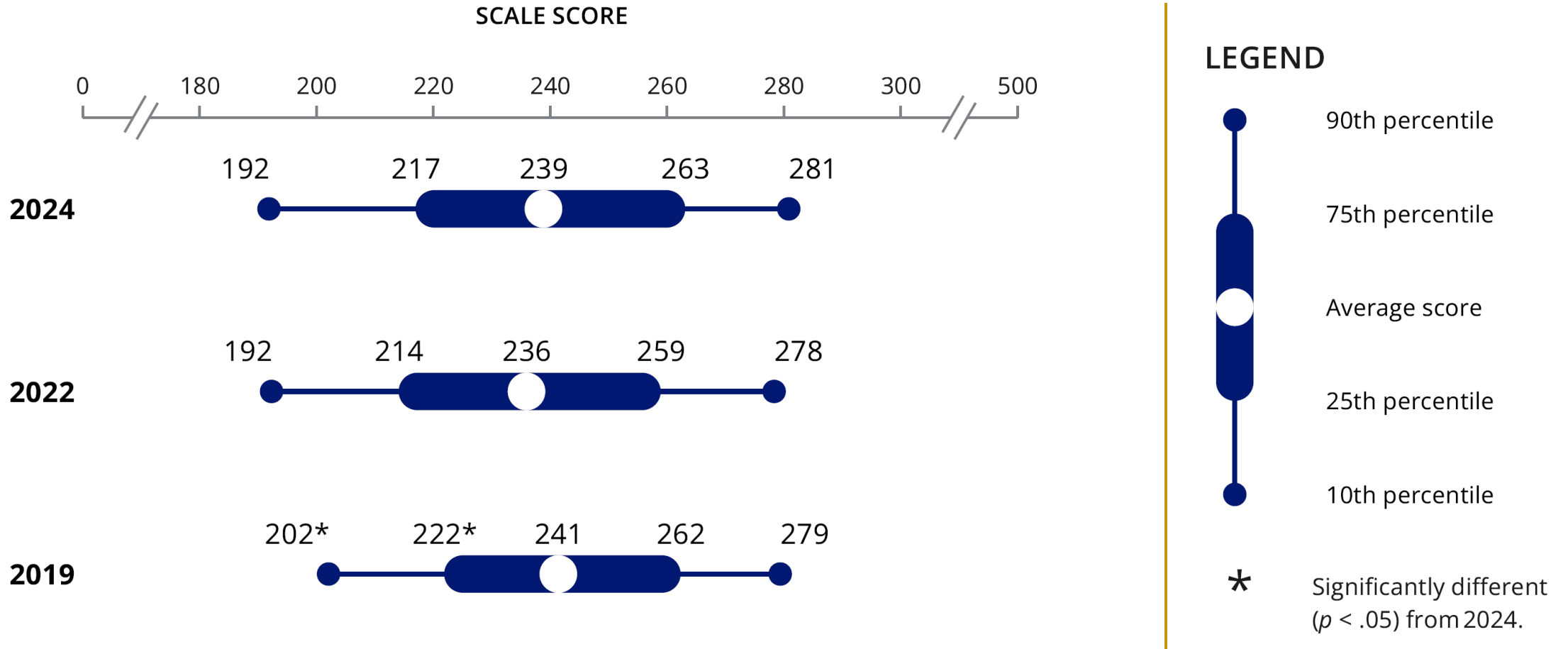
Score and Percentile Trends Grade 4 Reading



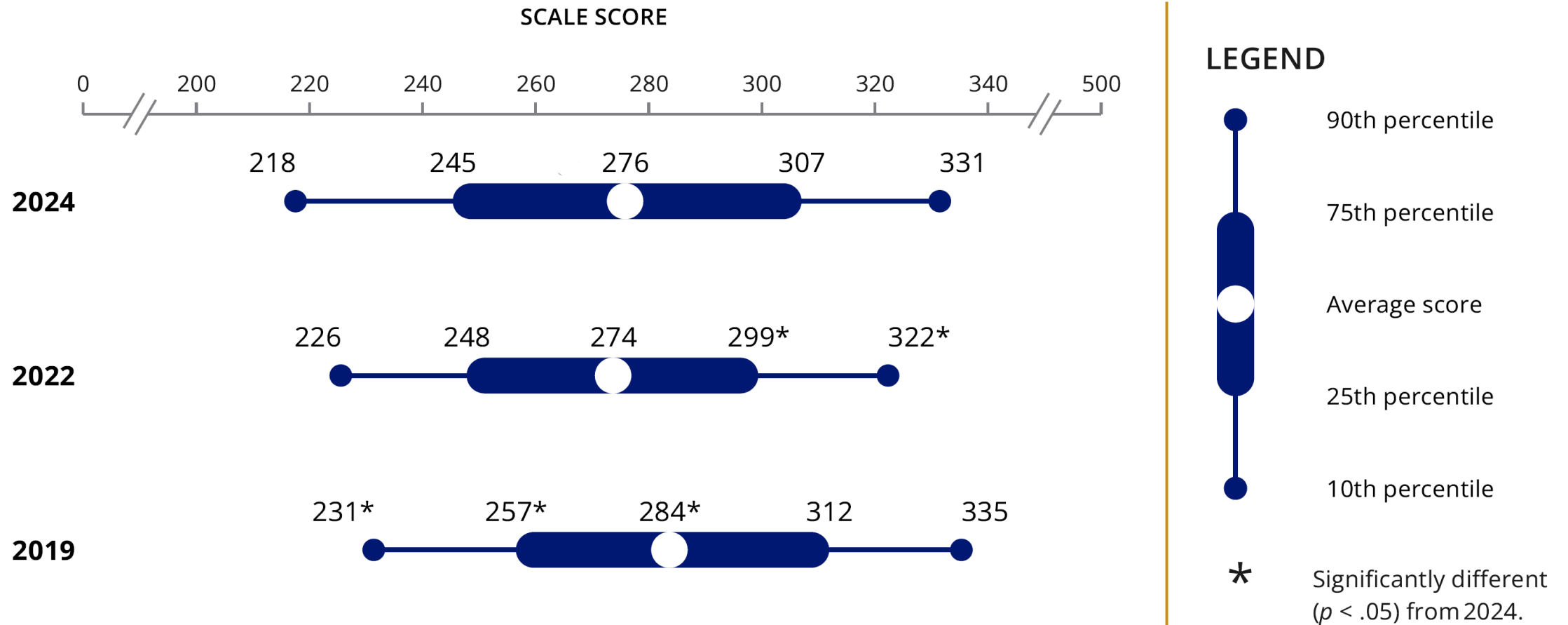
Score and Percentile Trends Grade 8 Reading



Score and Percentile Trends Grade 4 Mathematics



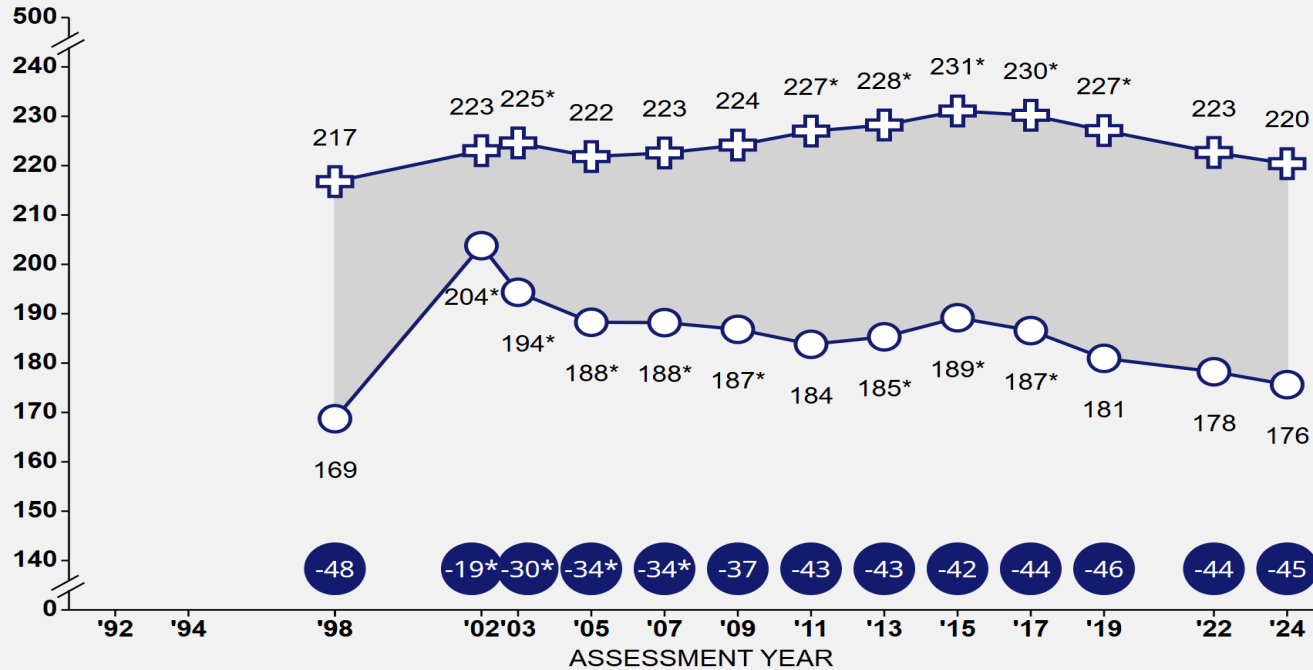
Score and Percentile Trends Grade 8 Mathematics



Average Scale Score Disability Status Grade 4 Reading

Reading
North Carolina
Grade 4

SCALE
SCORE



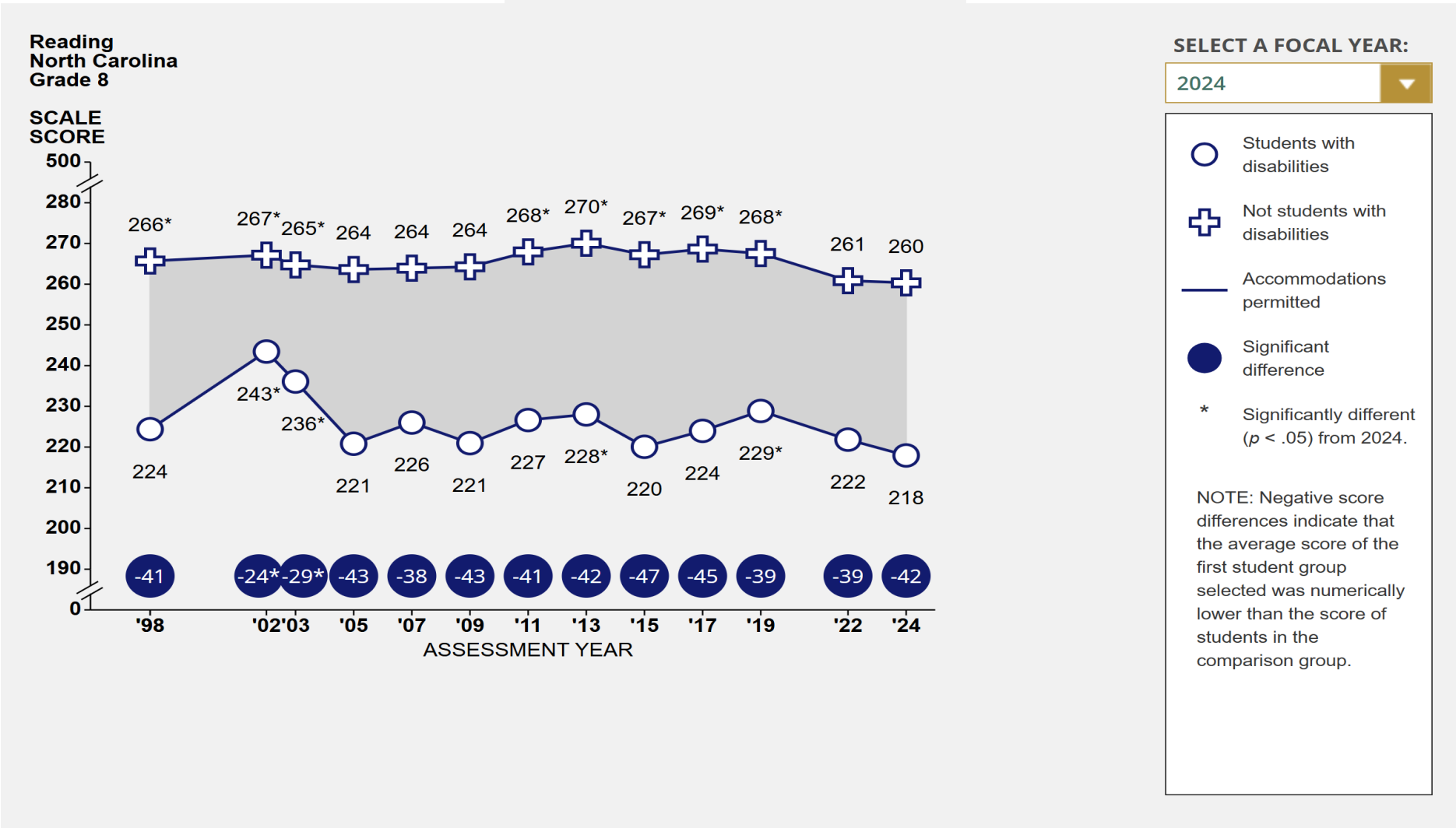
SELECT A FOCAL YEAR:

2024

- Students with disabilities
- Not students with disabilities
- Accommodations not permitted
- Accommodations permitted
- Significant difference
- * Significantly different ($p < .05$) from 2024.

NOTE: Negative score differences indicate that the average score of the first student group selected was numerically lower than the score of students in the comparison group.

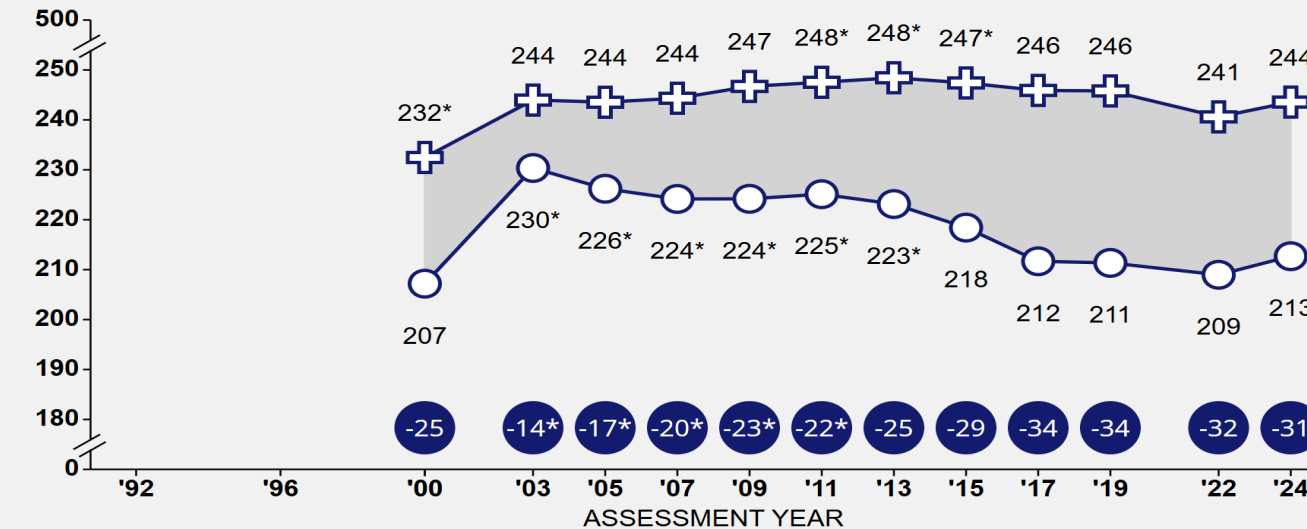
Average Scale Score Disability Status Grade 8 Reading



Average Scale Score Disability Status Grade 4 Mathematics






Mathematics
North Carolina
Grade 4

SCALE
SCORE



SELECT A FOCAL YEAR:

2024

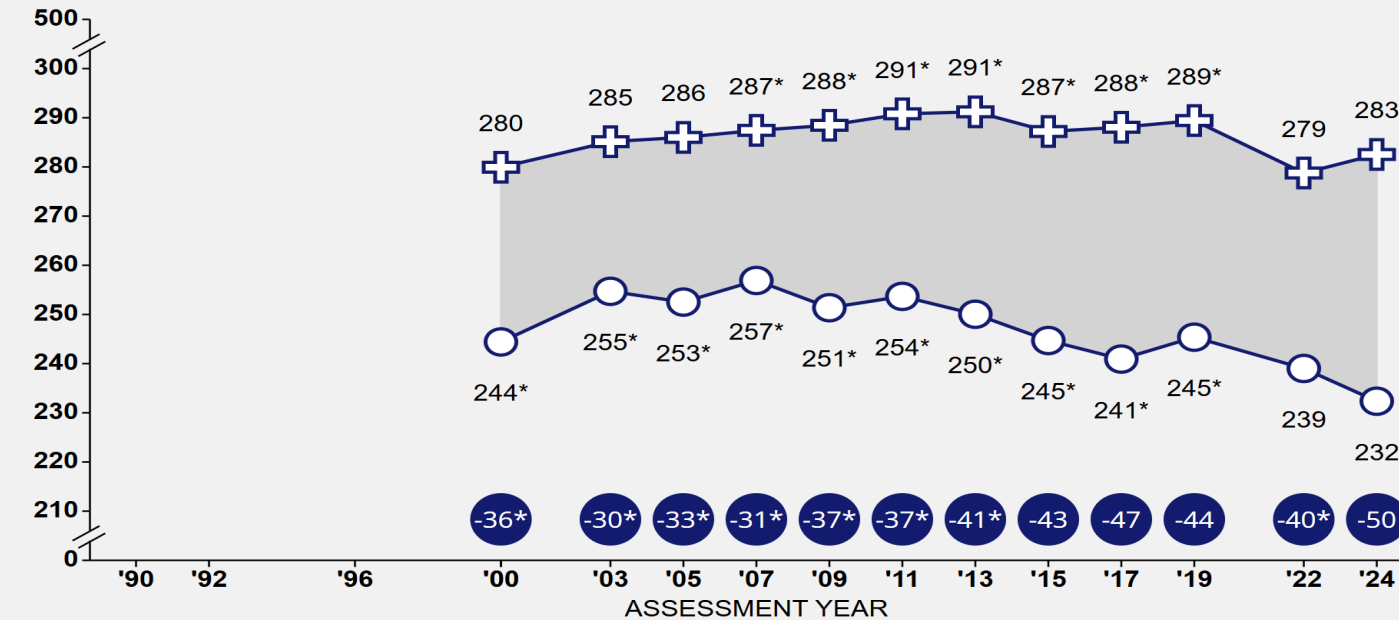
-  Students with disabilities
-  Not students with disabilities
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Average Scale Score Disability Status Grade 8 Mathematics






Mathematics
North Carolina
Grade 8

SCALE
SCORE



SELECT A FOCAL YEAR:

2024

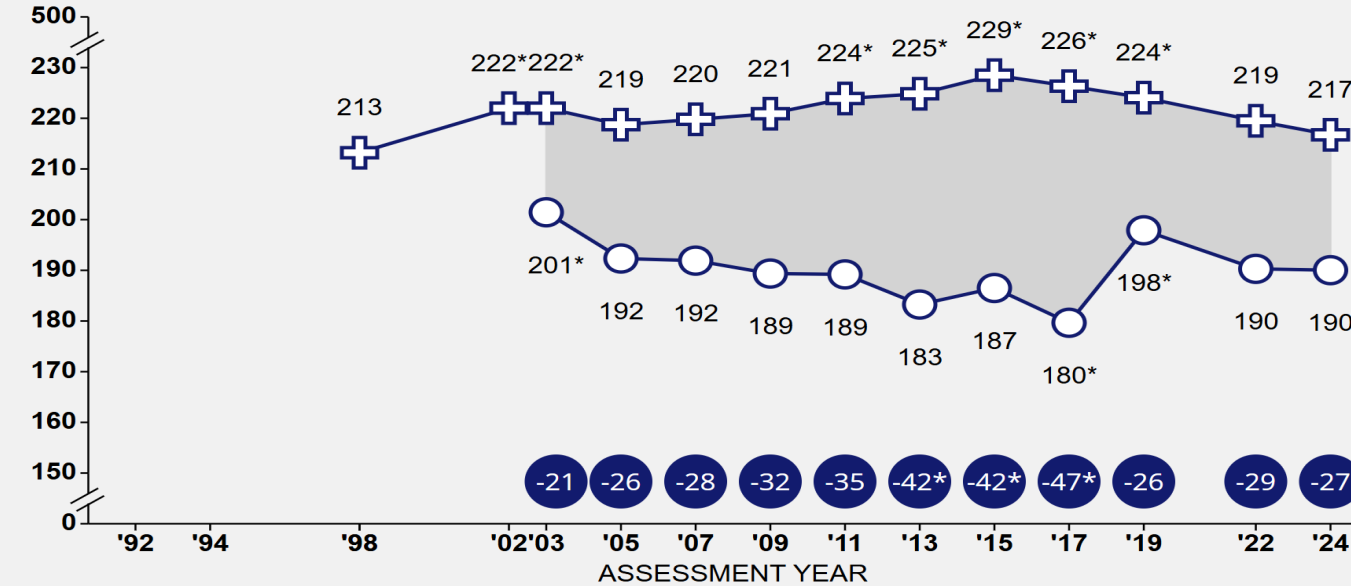
-  Students with disabilities
-  Not students with disabilities
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-  Accommodations permitted
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Average Scale Score English Learner Status Grade 4 Reading

Reading
North Carolina
Grade 4

SCALE
SCORE



SELECT A FOCAL YEAR:

2024

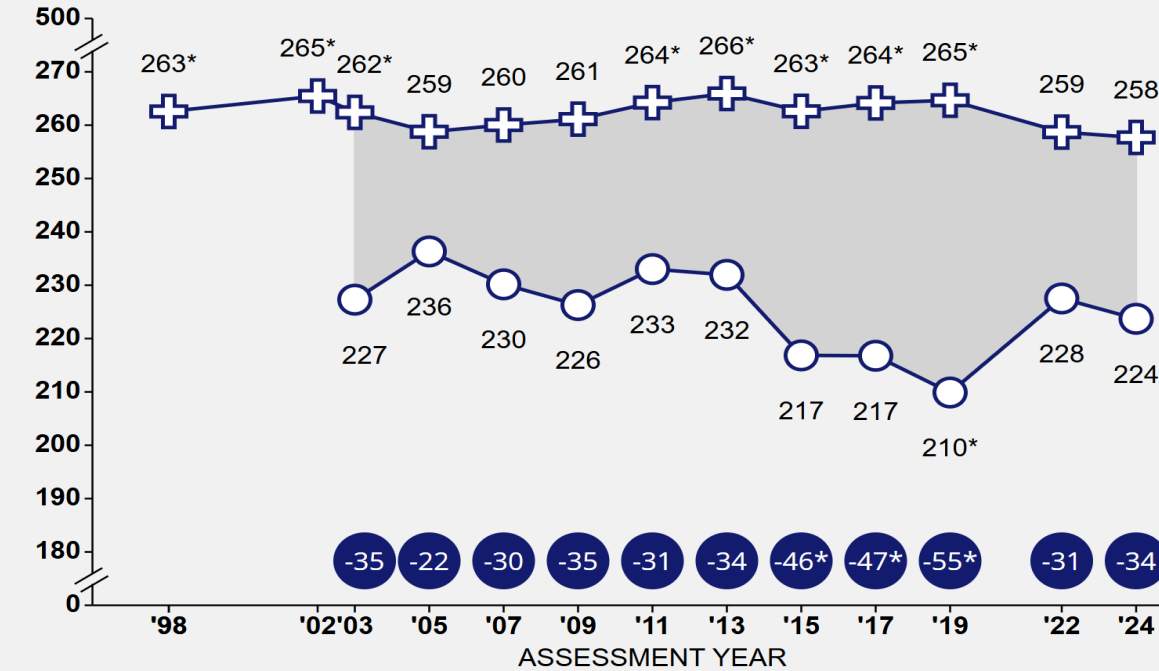
- English learners
- + Not English learners
- Accommodations not permitted
- Accommodations permitted
- Significant difference
- * Significantly different ($p < .05$) from 2024.

NOTE: Negative score differences indicate that the average score of the first student group selected was numerically lower than the score of students in the comparison group.

Average Scale Score English Learner Status Grade 8 Reading





Reading
North Carolina
Grade 8

SCALE
SCORE



SELECT A FOCAL YEAR:

2024

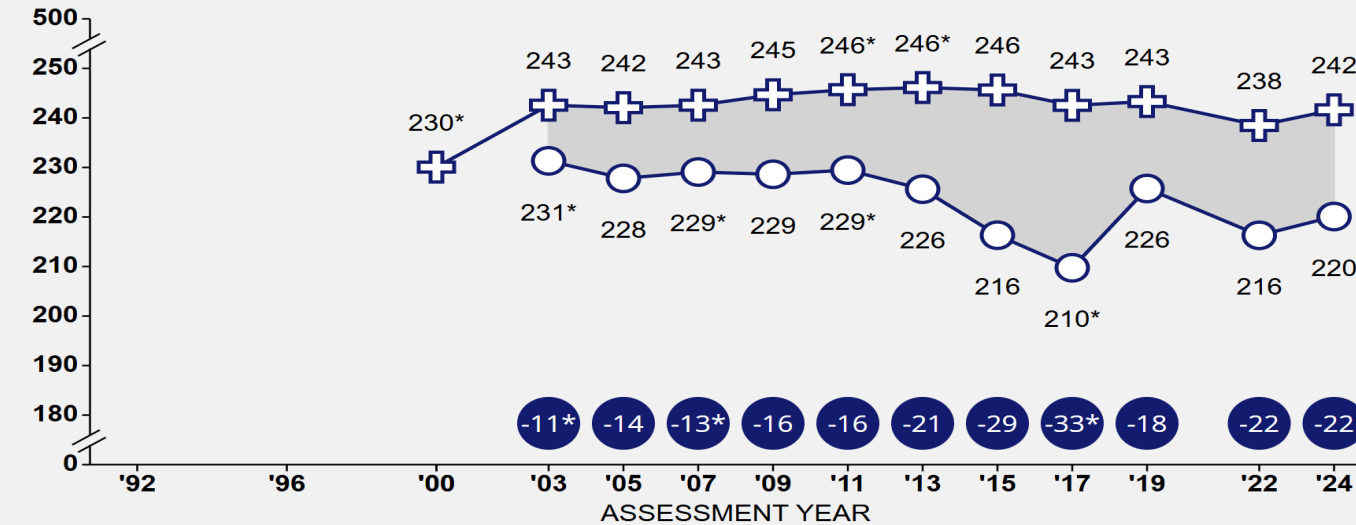
-  English learners
-  Not English learners
-  Accommodations permitted
-  Significant difference
- * Significantly different ($p < .05$) from 2024.

NOTE: Negative score differences indicate that the average score of the first student group selected was numerically lower than the score of students in the comparison group.

Average Scale Score English Learner Status Grade 4 Mathematics






Mathematics
North Carolina
Grade 4

SCALE
SCORE



SELECT A FOCAL YEAR:

2024

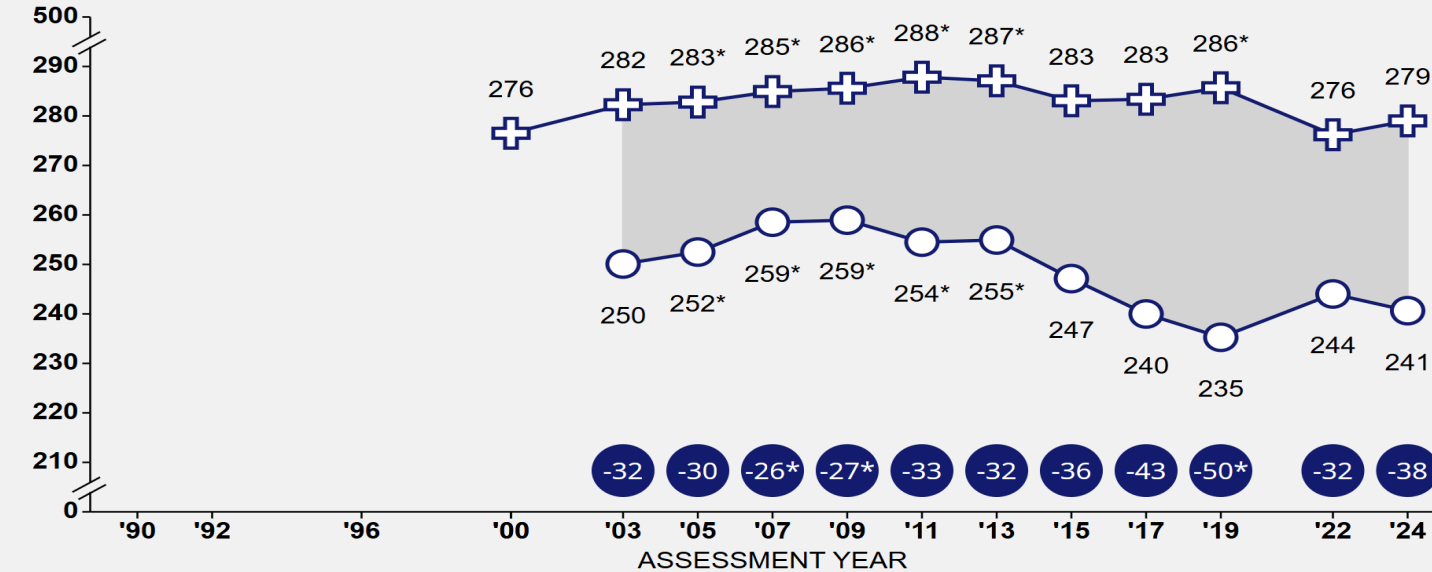
-  English learners
-  Not English learners
-  Accommodations not permitted
-  Accommodations permitted
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Average Scale Score English Learner Status Grade 8 Mathematics

Mathematics
North Carolina
Grade 8

SCALE
SCORE



SELECT A FOCAL YEAR:

2024

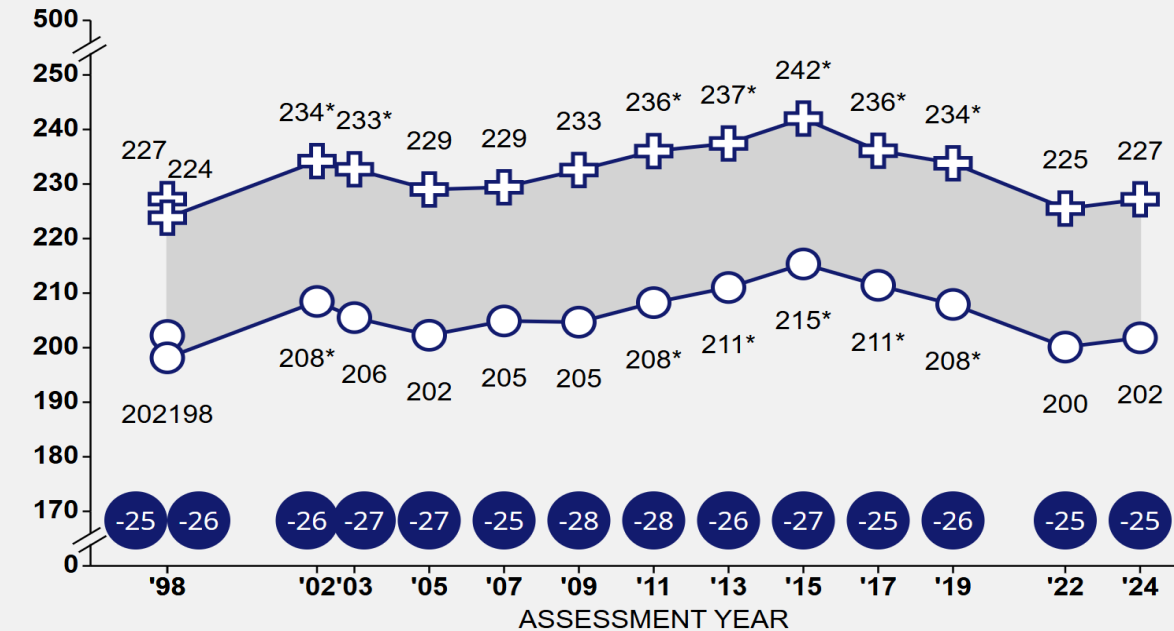
- English learners
- + Not English learners
- Accommodations not permitted
- Accommodations permitted
- Significant difference
- * Significantly different ($p < .05$) from 2024.

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Average Scale Score Economically Disadvantaged Status Grade 4 Reading





Reading
North Carolina
Grade 4

SCALE
SCORE



SELECT A FOCAL YEAR:

2024

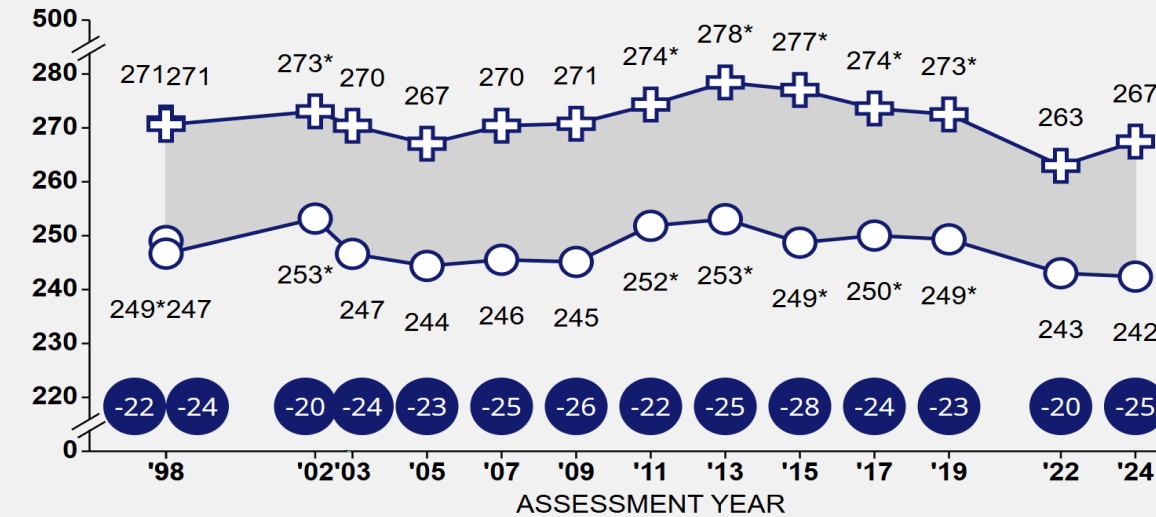
-  Economically disadvantaged
-  Not economically disadvantaged
-  Accommodations permitted
-  Significant difference
- * Significantly different ($p < .05$) from 2024.

NOTE: Negative score differences indicate that the average score of the first student group selected was numerically lower than the score of students in the comparison group.

Average Scale Score Economically Disadvantaged Status Grade 8 Reading





Reading
North Carolina
Grade 8

SCALE
SCORE



SELECT A FOCAL YEAR:

2024

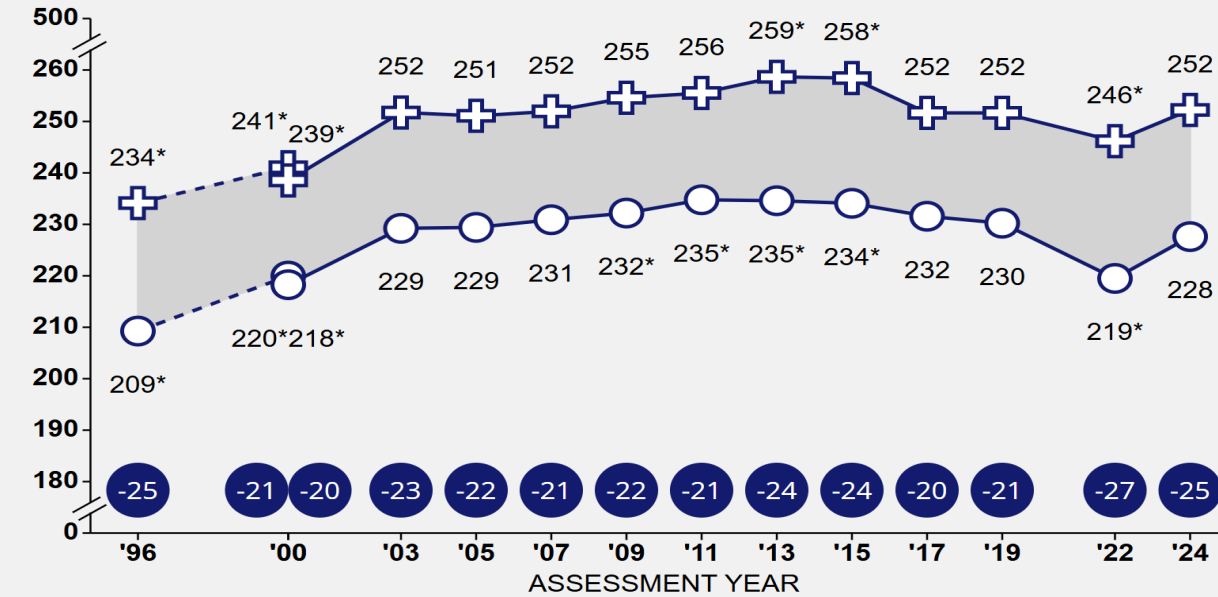
-  Economically disadvantaged
-  Not economically disadvantaged
-  Accommodations permitted
-  Significant difference
- * Significantly different ($p < .05$) from 2024.

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Average Scale Score Economically Disadvantaged Status Grade 4 Mathematics






Mathematics
North Carolina
Grade 4

SCALE
SCORE



SELECT A FOCAL YEAR:

2024

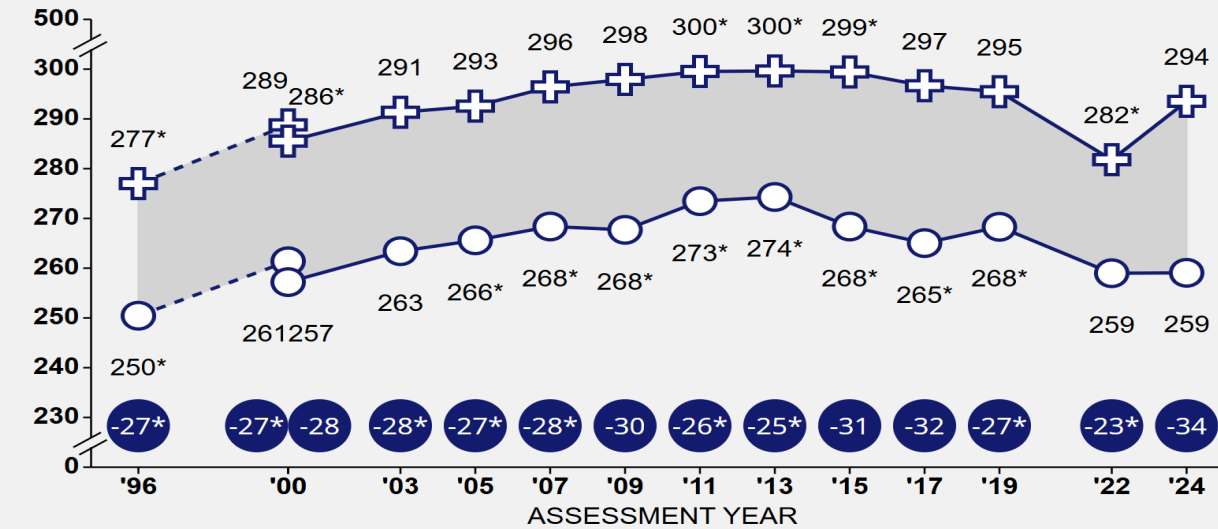
-  Economically disadvantaged
-  Not economically disadvantaged
-  Accommodations not permitted
-  Accommodations permitted
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Average Scale Score Economically Disadvantaged Status Grade 8 Mathematics






Mathematics
North Carolina
Grade 8

SCALE
SCORE



SELECT A FOCAL YEAR:

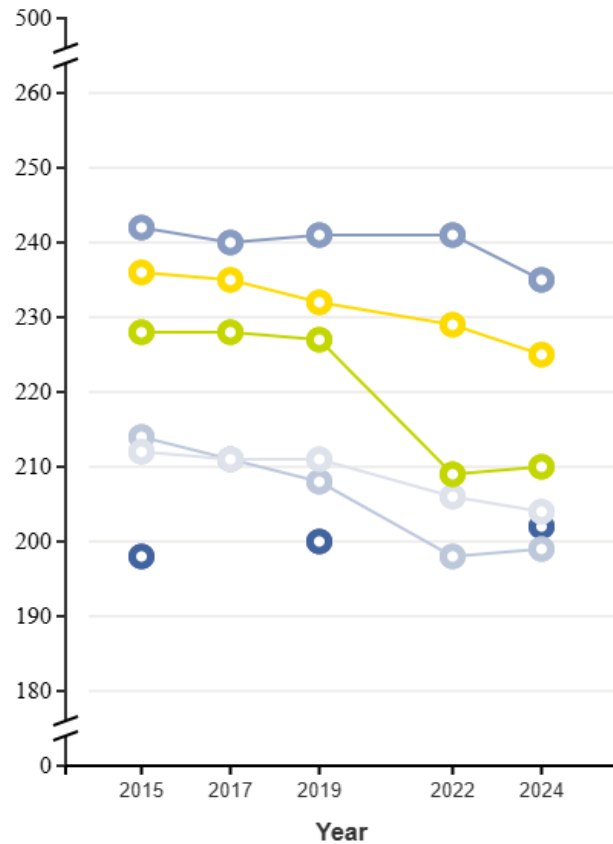
2024

-  Economically disadvantaged
-  Not economically disadvantaged
-  Accommodations not permitted
-  Accommodations permitted
-  Significant difference
- * Significantly different ($p < .05$) from 2024.

NOTE: Negative score differences indicate that the average score of the first student group selected was numerically lower than the score of students in the comparison group.

Average Scale Score Race/Ethnicity Grade 4 Reading

Average scale scores

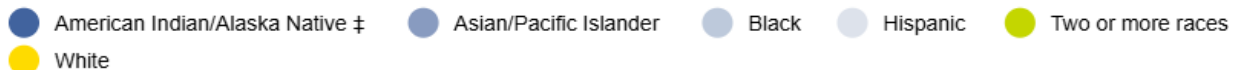


Year	Race/Ethnicity	Average scale score
2015	American Indian/Alaska Native	198
2015	Asian/Pacific Islander	242
2015	Black	214*
2015	Hispanic	212*
2015	Two or more races	228*
2015	White	236*
2017	American Indian/Alaska Native	‡
2017	Asian/Pacific Islander	240
2017	Black	211*
2017	Hispanic	211
2017	Two or more races	228*
2017	White	235*
2019	American Indian/Alaska Native	200
2019	Asian/Pacific Islander	241
2019	Black	208*
2019	Hispanic	211
2019	Two or more races	227*
2019	White	232*
2022	American Indian/Alaska Native	‡
2022	Asian/Pacific Islander	241
2022	Black	198
2022	Hispanic	206
2022	Two or more races	209
2022	White	229
2024	American Indian/Alaska Native	202
2024	Asian/Pacific Islander	235
2024	Black	199
2024	Hispanic	204
2024	Two or more races	210
2024	White	225

‡ Reporting standards not met.

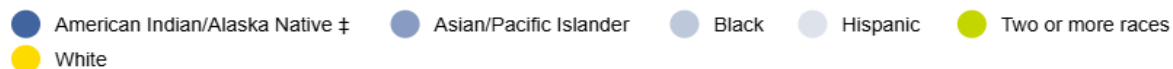
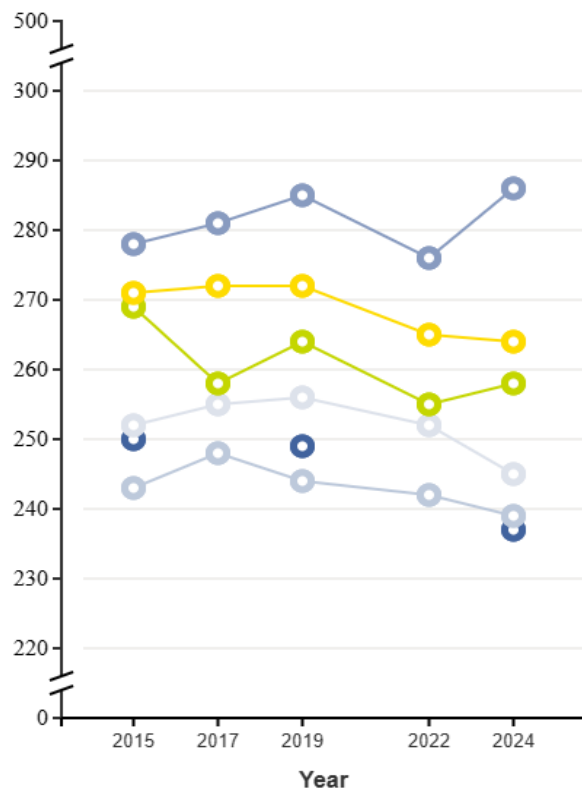
* Significantly different ($p < .05$) from 2024.

NOTE: Some apparent differences between estimates may not be statistically significant.



Average Scale Score Race/Ethnicity Grade 8 Reading

Average scale scores



Year	Race/Ethnicity	Average scale score
2015	American Indian/Alaska Native	250
2015	Asian/Pacific Islander	278
2015	Black	243
2015	Hispanic	252
2015	Two or more races	269
2015	White	271
2017	American Indian/Alaska Native	‡
2017	Asian/Pacific Islander	281
2017	Black	248*
2017	Hispanic	255*
2017	Two or more races	258
2017	White	272*
2019	American Indian/Alaska Native	249
2019	Asian/Pacific Islander	285
2019	Black	244
2019	Hispanic	256*
2019	Two or more races	264
2019	White	272*
2022	American Indian/Alaska Native	‡
2022	Asian/Pacific Islander	276
2022	Black	242
2022	Hispanic	252
2022	Two or more races	255
2022	White	265
2024	American Indian/Alaska Native	237
2024	Asian/Pacific Islander	286
2024	Black	239
2024	Hispanic	245
2024	Two or more races	258
2024	White	264

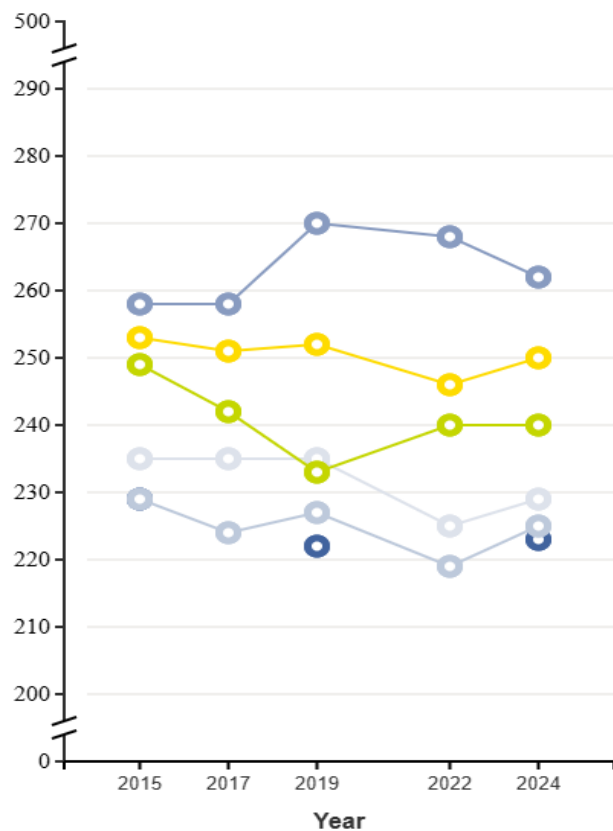
‡ Reporting standards not met.

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NOTE: Some apparent differences between estimates may not be statistically significant.

Average Scale Score Race/Ethnicity Grade 4 Mathematics

Average scale scores



● American Indian/Alaska Native ‡
 ● Asian/Pacific Islander
 ● Black
 ● Hispanic
 ● Two or more races
 ● White

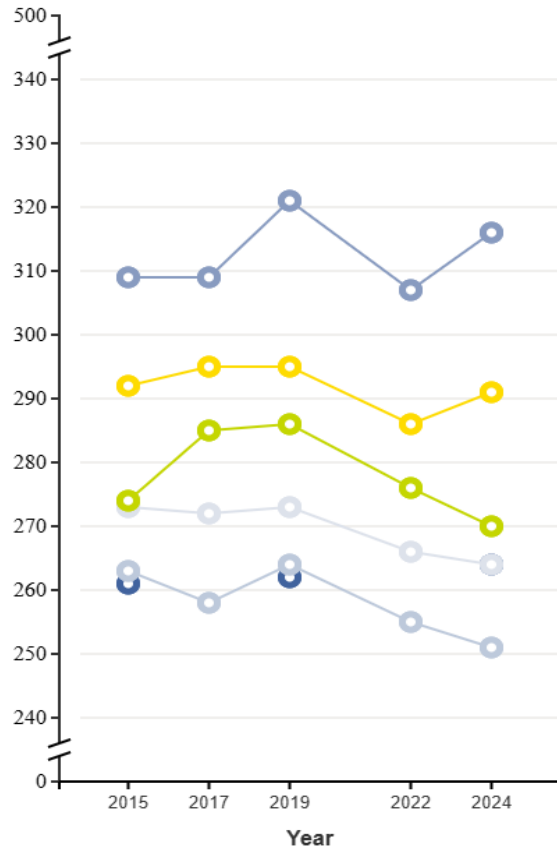
Year	Race/Ethnicity	Average scale score
2015	American Indian/Alaska Native	229
2015	Asian/Pacific Islander	258
2015	Black	229
2015	Hispanic	235
2015	Two or more races	249
2015	White	253
2017	American Indian/Alaska Native	‡
2017	Asian/Pacific Islander	258
2017	Black	224
2017	Hispanic	235
2017	Two or more races	242
2017	White	251
2019	American Indian/Alaska Native	222
2019	Asian/Pacific Islander	270
2019	Black	227
2019	Hispanic	235
2019	Two or more races	233
2019	White	252
2022	American Indian/Alaska Native	‡
2022	Asian/Pacific Islander	268
2022	Black	219
2022	Hispanic	225
2022	Two or more races	240
2022	White	246
2024	American Indian/Alaska Native	223
2024	Asian/Pacific Islander	262
2024	Black	225
2024	Hispanic	229
2024	Two or more races	240
2024	White	250

‡ Reporting standards not met.

NOTE: Some apparent differences between estimates may not be statistically significant.

Average Scale Score Race/Ethnicity Grade 8 Mathematics

Average scale scores



● American Indian/Alaska Native ‡
 ● Asian/Pacific Islander
 ● Black
 ● Hispanic
 ● Two or more races
 ● White

Year	Race/Ethnicity	Average scale score
2015	American Indian/Alaska Native	261
2015	Asian/Pacific Islander	309
2015	Black	263*
2015	Hispanic	273*
2015	Two or more races	274
2015	White	292
2017	American Indian/Alaska Native	‡
2017	Asian/Pacific Islander	309
2017	Black	258*
2017	Hispanic	272*
2017	Two or more races	285*
2017	White	295
2019	American Indian/Alaska Native	262
2019	Asian/Pacific Islander	321
2019	Black	264*
2019	Hispanic	273*
2019	Two or more races	286*
2019	White	295
2022	American Indian/Alaska Native	‡
2022	Asian/Pacific Islander	307
2022	Black	255
2022	Hispanic	266
2022	Two or more races	276
2022	White	286
2024	American Indian/Alaska Native	264
2024	Asian/Pacific Islander	316
2024	Black	251
2024	Hispanic	264
2024	Two or more races	270
2024	White	291

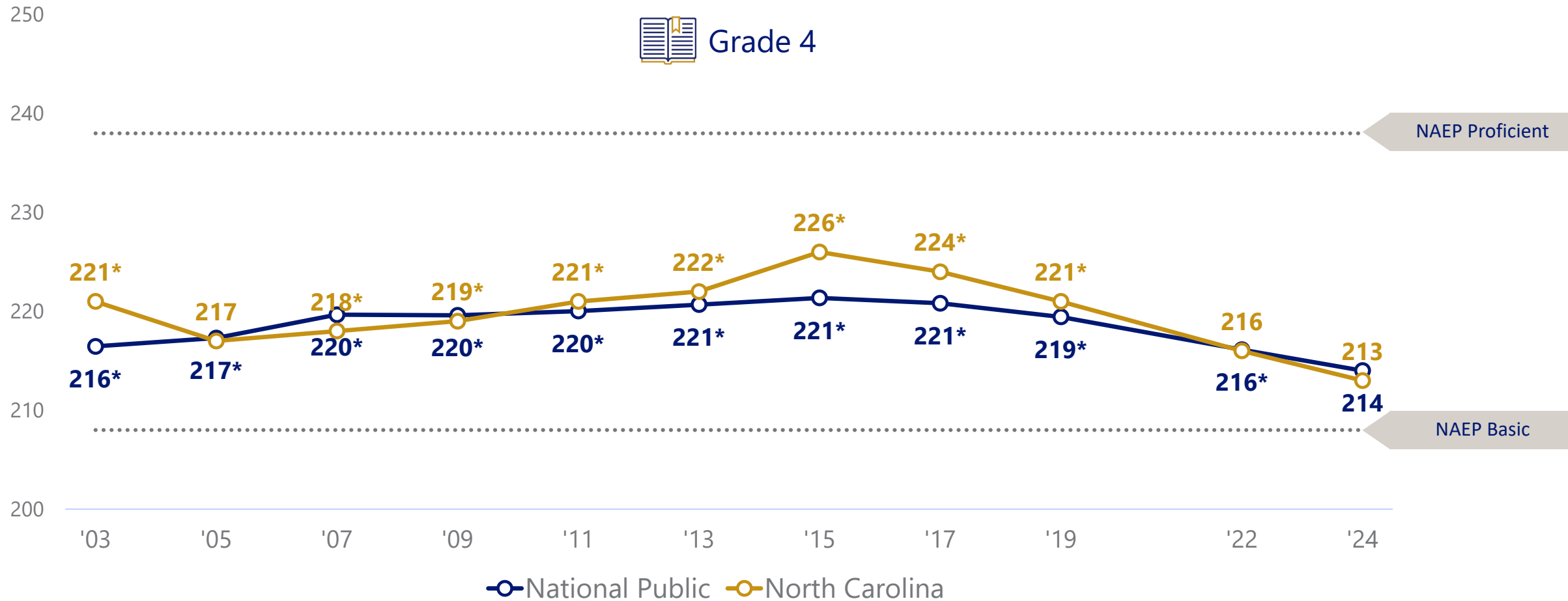
‡ Reporting standards not met.

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Average Scale Scores Grade 4 Reading

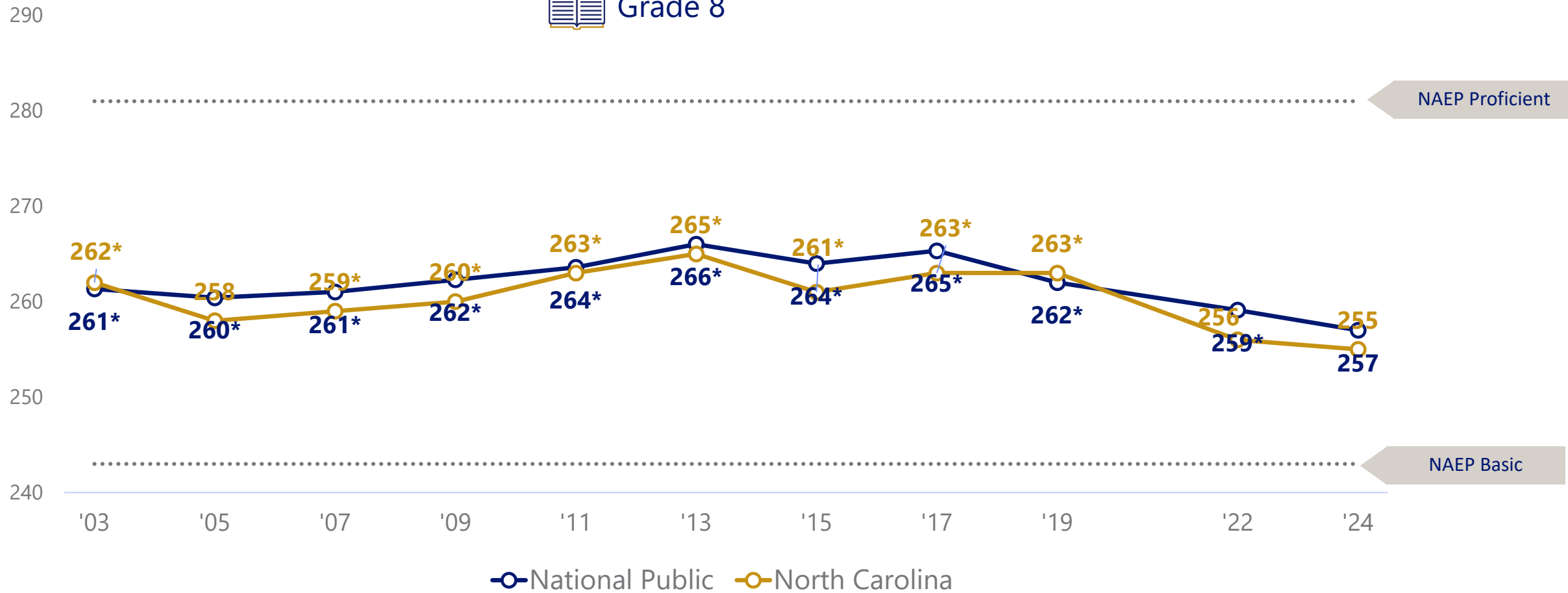
 Grade 4



*Significantly different ($p < .05$) from 2024.

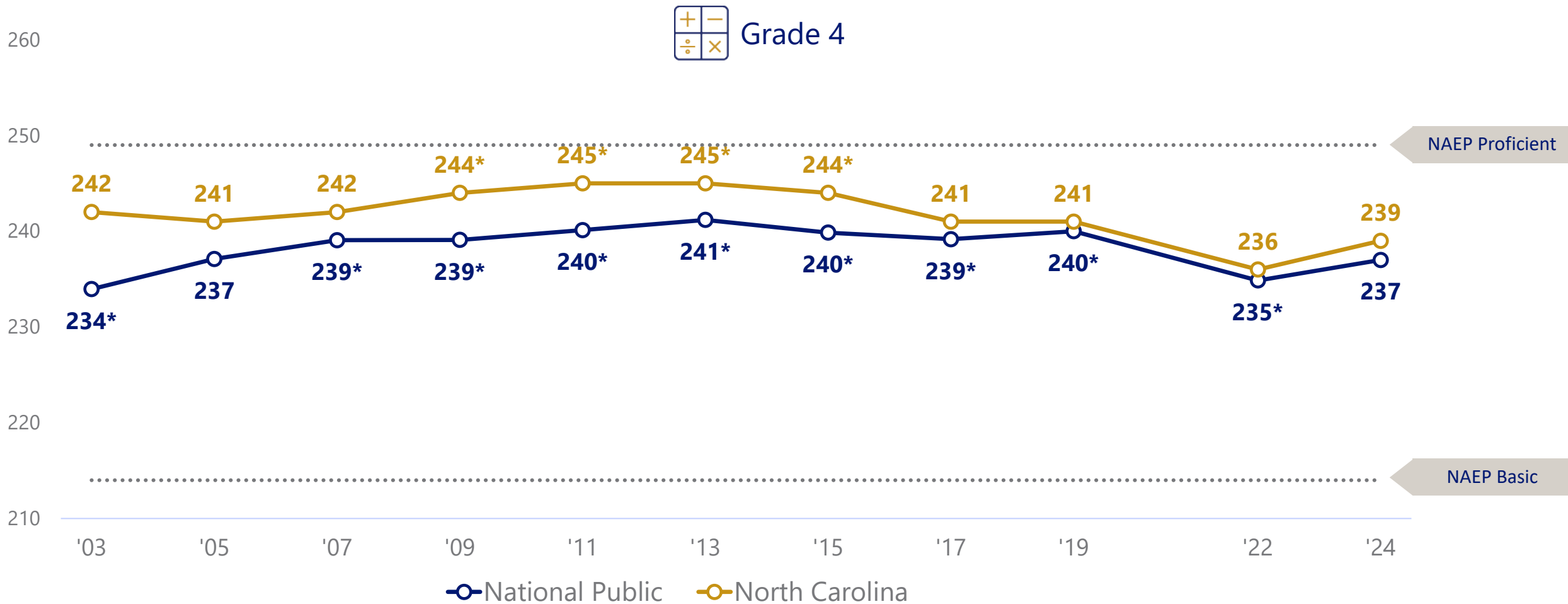
Average Scale Scores Grade 8 Reading

 Grade 8



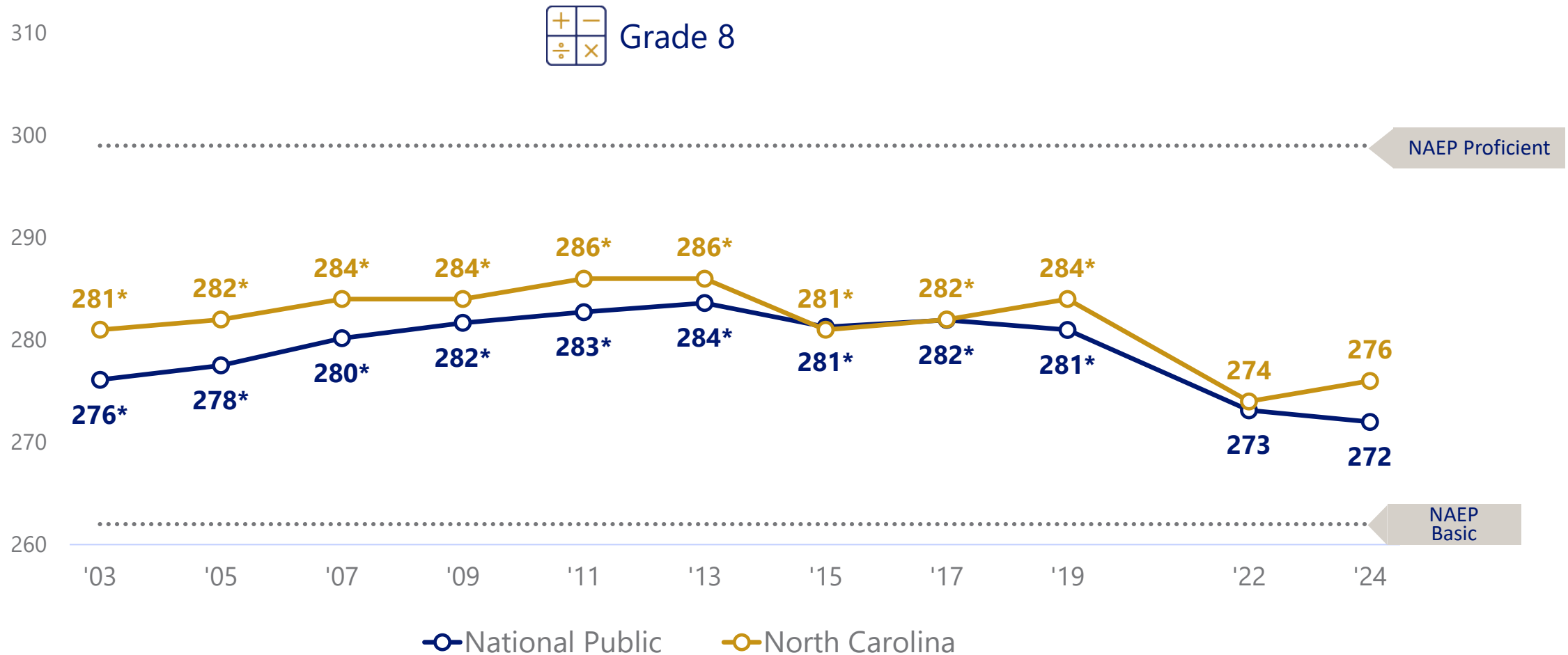
*Significantly different ($p < .05$) from 2024.

Average Scale Scores Grade 4 Mathematics



*Significantly different ($p < .05$) from 2024.

Average Scale Scores Grade 8 Mathematics



*Significantly different ($p < .05$) from 2024.