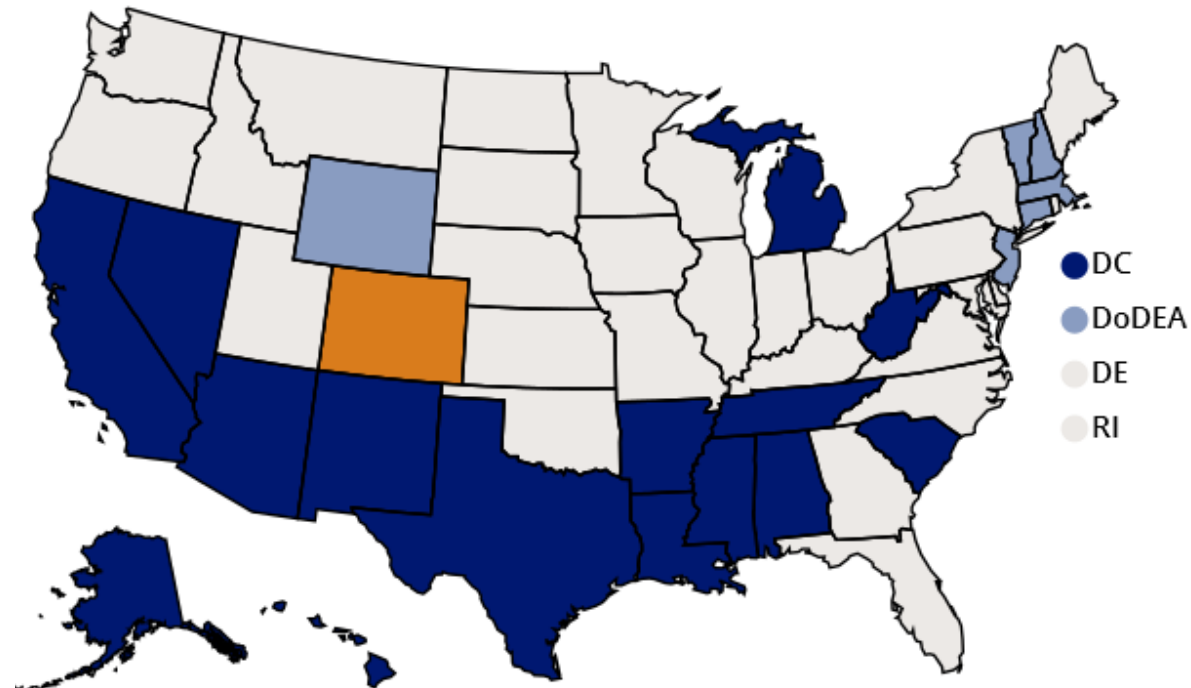


# 2015 NAEP: CO Reading 4th Grade Results Graphics

## 2015 Reading Grade 4: Average Scale Score (Figure 1)

Compare the Average Score in 2015 to Other States/Jurisdictions



In 2015, the average score in Colorado (224) was

- lower than those in 7 states/jurisdictions
- higher than those in 16 states/jurisdictions
- not significantly different from those in 28 states/jurisdictions

DoDEA = Department of Defense Education Activity (overseas and domestic schools)

**Figure 1** shows how Colorado 4<sup>th</sup> graders performed in the 2015 NAEP *Reading* assessment in comparison to the other 49 states, the District of Columbia and the Department of Defense schools. This is a comparison using the average scale score for each state. Colorado which is shaded orange is the focal state. States shaded light blue scored higher than Colorado. Dark-blue shaded states scored lower than Colorado and grey-shaded states scored the same as Colorado. Because NAEP results are based on samples, there is a margin of error associated with each score or percentage. Therefore, only those differences in scores or percentages that meet NAEP’s standards for statistical significance are reported as higher or lower.

## 2015 Reading Grade 4: Comparison to other states (Table 1)

**Table 1** shows how Colorado 4<sup>th</sup> graders performed in comparison to other states in average scale score. CO, the focal state, is shaded blue. States shaded green performed higher than CO. Massachusetts, Department of Defense, New Hampshire, Vermont, New Jersey, Connecticut and Wyoming scored higher. States/jurisdictions that are shaded yellow performed about the same as CO. The 28 states that scored the same as CO are shaded yellow and listed below in rank order with their respective scores. The 16 states that are shaded rose scored lower than Colorado. All states are show with their respective scores.

Rank Order	2015 NAEP Grade 4 Reading Average Scale Score	2015 Scale Score
1	Massachusetts	235.28
2	Department of Defense	233.76
3	New Hampshire	231.95
4	Vermont	230.10

5	New Jersey	229.49
6	Virginia	228.97
7	Connecticut	228.95
8	Wyoming	228.16
9	Kentucky	228.06
10	Indiana	227.28
11	Florida	227.19
12	Pennsylvania	226.67
13	Nebraska	226.63
14	Utah	226.14
15	Washington	225.89
16	North Carolina	225.81
17	Rhode Island	225.49
18	Ohio	224.93
19	Montana	224.76
20	North Dakota	224.69
21	Colorado	224.02
22	Maine	223.73
23	Delaware	223.70

24	Iowa	223.63
25	Wisconsin	223.36
26	Minnesota	223.35
27	Maryland	222.94
28	Missouri	222.73
29	New York	222.65
30	Illinois	222.02
31	Georgia	222.01
32	Oklahoma	221.83
33	Idaho	221.69
34	Kansas	221.09
35	South Dakota	220.47
36	Oregon	220.22
37	Tennessee	218.61
38	Arkansas	218.08
39	South Carolina	217.97
40	Texas	217.94
41	Alabama	217.05

<b>42</b>	<b>Michigan</b>	<b>216.31</b>
<b>43</b>	<b>West Virginia</b>	<b>216.25</b>
<b>44</b>	<b>Louisiana</b>	<b>216.2</b>
<b>45</b>	<b>Arizona</b>	<b>215.31</b>
<b>46</b>	<b>Hawaii</b>	<b>215.12</b>
<b>47</b>	<b>Nevada</b>	<b>214.43</b>
<b>48</b>	<b>Mississippi</b>	<b>214.11</b>
<b>49</b>	<b>Alaska</b>	<b>212.79</b>
<b>50</b>	<b>California</b>	<b>212.68</b>
<b>51</b>	<b>District of Columbia</b>	<b>212.31</b>
<b>52</b>	<b>New Mexico</b>	<b>207.24</b>

## How Colorado Compares to Other States/Jurisdictions in Average Scale Score (Figure 2)

	4 <sup>th</sup> Grade
	Reading
Number of States Scoring <u>Better</u> than Colorado	7
Number of States/Jurisdictions Scoring the <u>Same</u> as Colorado	28
Number of States/Jurisdictions Scoring <u>Lower</u> than Colorado	16

Figure 2 shows how Colorado performed in comparison to other states/jurisdictions in the grade 4 2015 NAEP *Reading* assessment in average scale score. Seven states/jurisdictions performed higher than CO. Twenty-eight states/jurisdictions scored the same as CO. Last, sixteen states scored lower than CO.

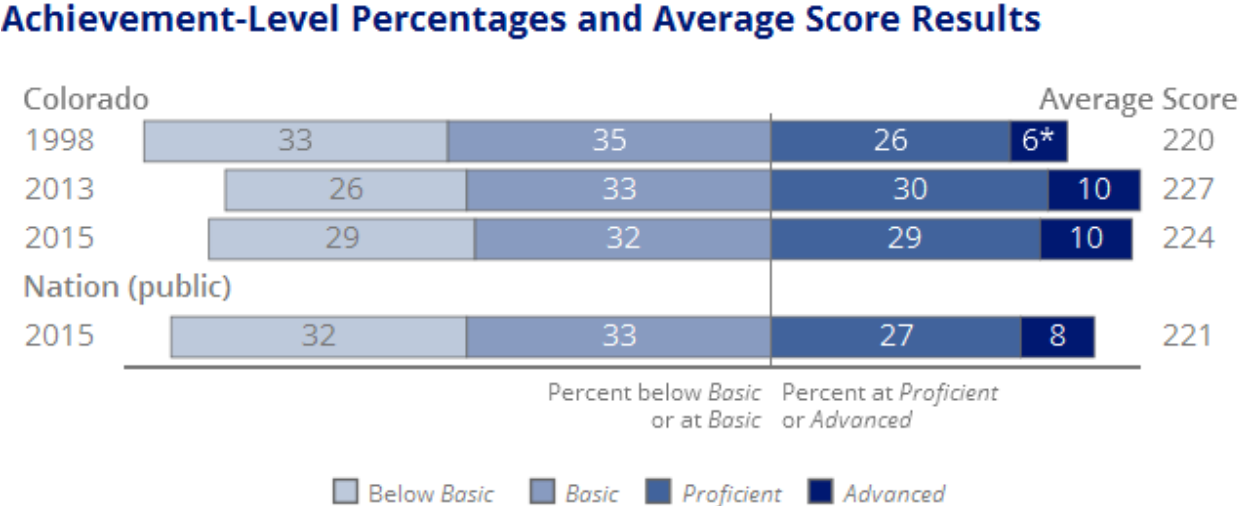
## Average Scale Score: CO v. the National Public (Figure 3)

4 <sup>th</sup> Grade	
	Reading
Colorado	*224
National Public	*221
Did Colorado perform (statistically) significantly higher than the National Public?	No, scored the same

**\*Same as the 2013 test**

**Figure 3** shows how CO compares to the National Public in the 2015 grade 4 NAEP *Reading* assessment in average scale score. CO had an average scale score of 224 and the National Public sample had a score of 221. Colorado performed the same as the National Public in the reading assessment. Both Colorado and the National Public scored the same as they did in the 2013 test.

# 2015 Reading Grade 4: Average Level Percentages and Average Score Results: (Figure 4)



NOTE: Detail may not sum to totals because of rounding.

**Figure 4** shows a comparison of the grade 4 trend results comparing 1998, 2013 and 2015 for CO using average scale score and achievement-level percentages. The 2015 National (public) scale score and achievement-level percentages are also compared. A score with an asterisk means that it is significantly different than the 2015 score.



## Percent of Students Scoring at *Proficient or Above* (Figure 5)

	4 <sup>th</sup> Grade
	Reading
Colorado	*39
National Public	*36
Did Colorado perform (statistically) significantly higher than the National Public?	No, scored the same

\* The same as the 2013 test

Figure 5 shows the percent of students for CO and the National Public scoring at the *Proficient or Above* achievement levels (*Proficient and Advanced*) on the 2015 grade four reading test. CO had 39 percent of its students that scored at the *Proficient or Above* achievement levels. The National Public had 36 percent of the students that scored at the same levels. There was no difference between Colorado and the National Public in the percent of students scoring at *Proficient or Above*. Neither

Colorado nor the National Public had any significant difference in students scoring at *Proficient or Above* in 2015 compared to 2013.

## How Colorado Compares to Other States/Jurisdictions in Scoring at *Proficient or Above* in 2015 (Figure 6)

	4 <sup>th</sup> Grade
	Reading
Number of States Scoring <u>Better</u> than Colorado	4
Number of States/Jurisdictions Scoring the <u>Same</u> as Colorado	32
Number of States/Jurisdictions Scoring <u>Lower</u> than Colorado	15

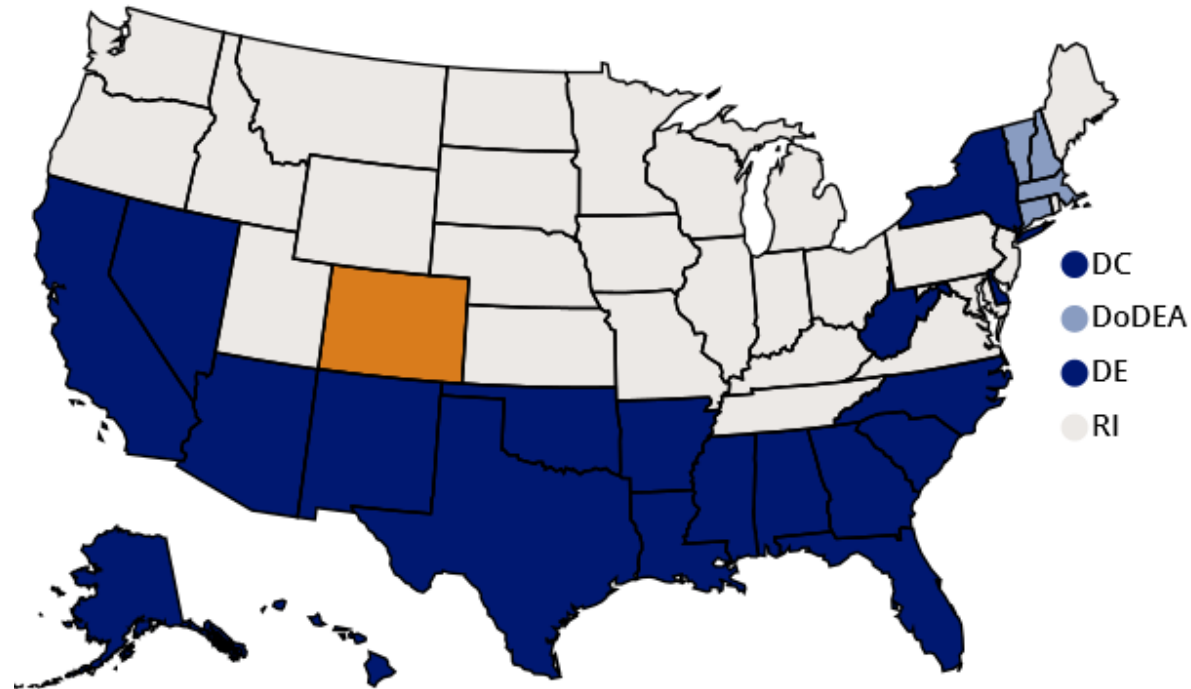
**Figure 6** shows how Colorado performed in comparison to other states/jurisdictions in the grade 4 2015 NAEP *Reading* assessment in scoring at the *Proficient or Above* achievement levels in 2015. Four states performed higher than CO. Thirty-two states scored the same as CO. Last, fifteen states scored lower than CO.

NOTE: Statistical comparisons are calculated on the basis of unrounded scale scores or percentages. SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP) 1998, 2013 and 2015 Reading Assessments.

# 2015 NAEP: CO Reading 8th Grade Results Graphics

## 2015 Reading Grade 8: Average Scale Score (Figure 1)

Compare the Average Score in 2015 to Other States/Jurisdictions



In 2015, the average score in Colorado (268) was

- lower than those in 5 states/jurisdictions
- higher than those in 20 states/jurisdictions
- not significantly different from those in 26 states/jurisdictions

DoDEA = Department of Defense Education Activity (overseas and domestic schools)

**Figure 1** shows how Colorado 8<sup>th</sup> graders performed in the 2015 NAEP *Reading* assessment in comparison to the other 49 states, the District of Columbia and the Department of Defense schools. This is a comparison using the average scale score for each state. Colorado which is shaded orange is the focal state. States shaded light blue scored higher than Colorado. Dark-blue shaded states scored lower than Colorado and grey-shaded states scored the same as Colorado. Because NAEP results are based on samples, there is a margin of error associated with each score or percentage. Therefore, only those differences in scores or percentages that meet NAEP’s standards for statistical significance are reported as higher or lower.

## 2015 Reading Grade 8: Comparison to other states (Table 1)

**Table 1** shows how Colorado performed in comparison to other states in average scale score. CO, the focal state, is shaded blue. States shaded green performed higher than CO. The Department of Defense schools, New Hampshire, Massachusetts, Vermont and Connecticut scored higher than CO. The twenty-six states that are shaded yellow performed about the same as CO and are listed below in rank order with their respective scores. Twenty states scored lower than Colorado. These 20 states are shaded rose and are listed below in rank order with respective scores.

Rank Order	2015 NAEP Grade 8 Reading Average Scale Score	2015 Scale Score
1	Department of Defense	277.19
2	New Hampshire	274.81
3	Massachusetts	274.5
4	Vermont	273.96
5	Connecticut	273.05
6	New Jersey	270.85

7	Minnesota	270.24
8	Montana	269.96
9	Wisconsin	269.53
10	Utah	269.43
11	Nebraska	269.43
12	Wyoming	268.80
13	Pennsylvania	268.75
14	Idaho	268.55
15	Maine	268.39
16	Indiana	268.25
17	Iowa	268.20
18	Colorado	268.07
19	Maryland	267.91
20	Kentucky	267.77
21	Oregon	267.67
22	Washington	267.25
23	South Dakota	267.08
24	North Dakota	266.96
25	Missouri	266.88

<b>26</b>	<b>Virginia</b>	<b>266.84</b>
<b>27</b>	<b>Illinois</b>	<b>266.81</b>
<b>28</b>	<b>Kansas</b>	<b>266.77</b>
<b>29</b>	<b>Ohio</b>	<b>265.88</b>
<b>30</b>	<b>Rhode Island</b>	<b>265.05</b>
<b>31</b>	<b>Tennessee</b>	<b>264.77</b>
<b>32</b>	<b>Michigan</b>	<b>264.50</b>
<b>33</b>	<b>Florida</b>	<b>263.38</b>
<b>34</b>	<b>New York</b>	<b>263.25</b>
<b>35</b>	<b>Arizona</b>	<b>262.77</b>
<b>36</b>	<b>Oklahoma</b>	<b>262.67</b>
<b>37</b>	<b>Delaware</b>	<b>262.61</b>
<b>38</b>	<b>Georgia</b>	<b>262.27</b>
<b>39</b>	<b>Texas</b>	<b>260.66</b>
<b>40</b>	<b>North Carolina</b>	<b>260.59</b>
<b>41</b>	<b>South Carolina</b>	<b>260.33</b>
<b>42</b>	<b>Alaska</b>	<b>260.32</b>
<b>43</b>	<b>West Virginia</b>	<b>260.19</b>

<b>44</b>	<b>Nevada</b>	<b>259.42</b>
<b>45</b>	<b>California</b>	<b>258.99</b>
<b>46</b>	<b>Arkansas</b>	<b>258.77</b>
<b>47</b>	<b>Alabama</b>	<b>258.75</b>
<b>48</b>	<b>Hawaii</b>	<b>257.35</b>
<b>49</b>	<b>Louisiana</b>	<b>255.47</b>
<b>50</b>	<b>New Mexico</b>	<b>253.23</b>
<b>51</b>	<b>Mississippi</b>	<b>251.98</b>
<b>52</b>	<b>District of Columbia</b>	<b>247.65</b>

# How Colorado Compares to Other States/Jurisdictions in Average Scale Score (Figure 2)

8 <sup>th</sup> Grade	
Reading	
Number of States Scoring <u>Better</u> than Colorado	5
Number of States/Jurisdictions Scoring the <u>Same</u> as Colorado	26
Number of States/Jurisdictions Scoring <u>Lower</u> than Colorado	20

Figure 2 shows how Colorado performed in comparison to other states/jurisdictions in the grade 8 2015 NAEP *Reading* assessment in average scale score. Five states performed higher than CO. Twenty-six states scored the same as CO. Last, twenty states scored lower than CO.



## Average Scale Score: CO v. the National Public (Figure 3)

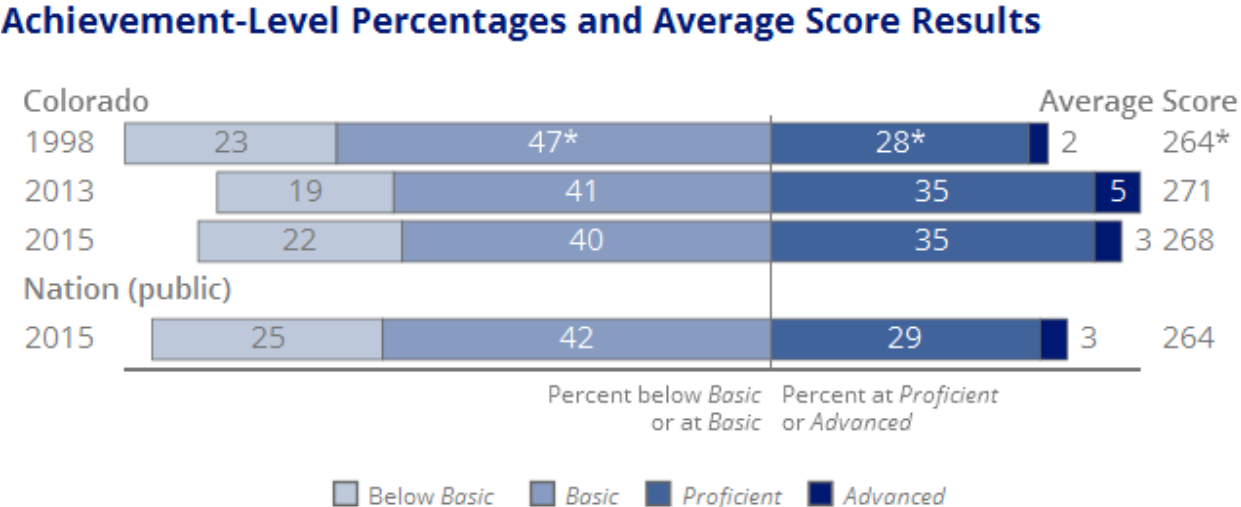
8 <sup>th</sup> Grade	
Reading	
Colorado	*268
National Public	**264
Did Colorado perform (statistically) significantly higher than the National Public?	Yes

\* Scored the same as the 2013 test

\*\*Scored lower than the 2013 test

**Figure 3** shows how CO compares to the National Public in the 2015 grade 8 NAEP *Reading* assessment in average scale score. CO had an average scale score of 268 and the National Public sample had a score of 264. CO performed significantly higher than the National Public in the reading assessment. CO did not score differently than in the 2013 test. The National Public scored significantly lower than in the 2013 test.

# 2015 Reading Grade 8: Average Level Percentages and Average Score Results: (Figure 4)



\* Significantly different ( $p < .05$ ) from state's results in 2015. Significance tests were performed using unrounded numbers.  
 NOTE: Detail may not sum to totals because of rounding.

**Figure 4** shows a comparison of the grade 8 *reading* trend results for 1998, 2013 and 2015 for CO using average scale score and achievement-level percentages. The 2015 National (public) scale score and achievement-level percentages are also compared. A score with an asterisk means that it is significantly different than the 2015 score.

## Percent of Students Scoring at *Proficient or Above* (Figure 5)

	8 <sup>th</sup> Grade
	Reading
Colorado	*38
National Public	**33
Did Colorado perform (statistically) significantly higher than the National Public?	No, scored the same

\* Scored the same as the 2013 test

\*\*Scored lower than the 2013 test

Figure 5 shows the percent of students for CO and the National Public scoring at the *Proficient or Above* achievement levels (*Proficient and Advanced*) on the 2015 8<sup>th</sup> grade test. CO had 38 percent of its students that scored at the *Proficient or Above* achievement levels. The National Public had 33 percent of the students that scored at the *Proficient or Above* achievement

levels. On the 2015 test there was no difference between Colorado and the National Public’s percentage of students scoring at these levels. Colorado did not have any significant difference in students scoring at *Proficient or Above* in 2015 compared to 2013. The National Public had a lower percentage of students scoring at *Proficient or Above* in 2015 than in 2013.

## How Colorado Compares to Other States/Jurisdictions in Scoring at *Proficient or Above* in 2015 (Figure 6)

	8 <sup>th</sup> Grade
	Reading
Number of States Scoring <u>Better</u> than Colorado	4
Number of States/Jurisdictions Scoring the <u>Same</u> as Colorado	27
Number of States/Jurisdictions Scoring <u>Lower</u> than Colorado	20

**Figure 6** shows how Colorado performed in comparison to other states/jurisdictions in the grade 8 2015 NAEP *Reading* assessment in scoring at the *Proficient or Above* achievement levels in 2015. Four states performed higher than CO. Twenty-seven states scored the same as CO. Last, twenty states scored lower than CO.

NOTE: Statistical comparisons are calculated on the basis of unrounded scale scores or percentages. SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998, 2013 and 2015 Reading Assessments.