

## Chapter 8. State Indicators

### 8-2F Fourth Grade Mathematics Proficiency, Male Students

#### Description

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This indicator represents the proportion of a state's fourth grade students in public schools that met or exceeded the proficiency standard in mathematics. The National Assessment Governing Board sets performance standards that provide a context for interpreting National Assessment of Educational Progress (NAEP) results. The standards define "proficiency," as well as "advanced" and "basic" accomplishment. For the fourth grade, the basic level (scores 214–248) denotes partial mastery of knowledge and skills that are prerequisite for proficient work. The proficient level (249–281) represents solid academic performance and demonstrates competency over challenging subject-matter knowledge. The advanced level (282–500) signifies superior performance.

The National Center for Education Statistics has determined that achievement levels are to be used on a trial basis and should be interpreted with caution. However, both the Commissioner of Education Statistics and the National Assessment Governing Board state these performance standards are useful for understanding trends in student achievement.

Approximately 180,000 fourth grade students in 7,540 schools participated in the 2013 NAEP mathematics assessment. Students with disabilities or limited English-language proficiency were allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered. Demographic percentages of test takers by state are included in this indicator's standard error table. For national data across all demographic groups, see indicator 8-2.

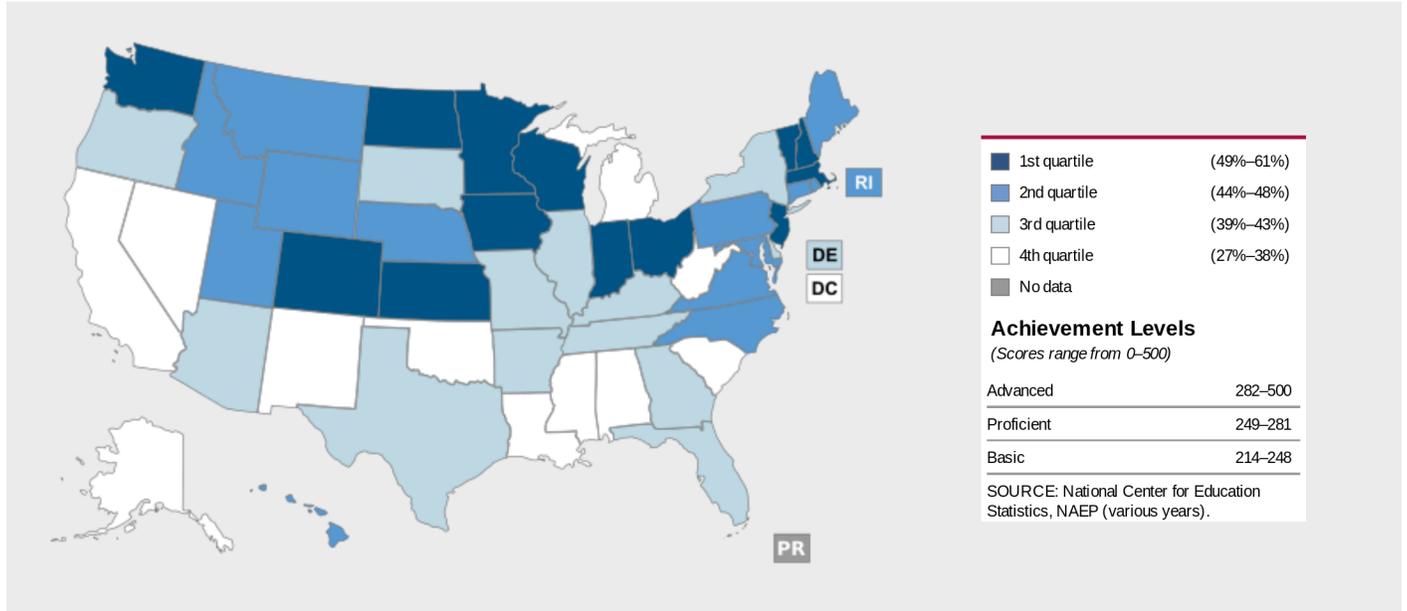
#### Findings

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- In 2013, 42% of male fourth grade students nationwide performed at or above the proficient level in mathematics, an increase from 34% in 2003. In 2013, 41% of fourth grade students nationwide performed at or above the proficient level in mathematics.
- Proficiency varied significantly across states, ranging from 27% to 61%.
- None of the statewide averages were lower in 2013 than in 2003; almost all statewide averages were higher in 2013 than in 2003. Statewide averages for Connecticut, Michigan, North Carolina, and South Carolina were virtually the same in 2013 as in 2003.

## 8-2F Fourth Grade Mathematics Proficiency, Male Students

Year: 2013

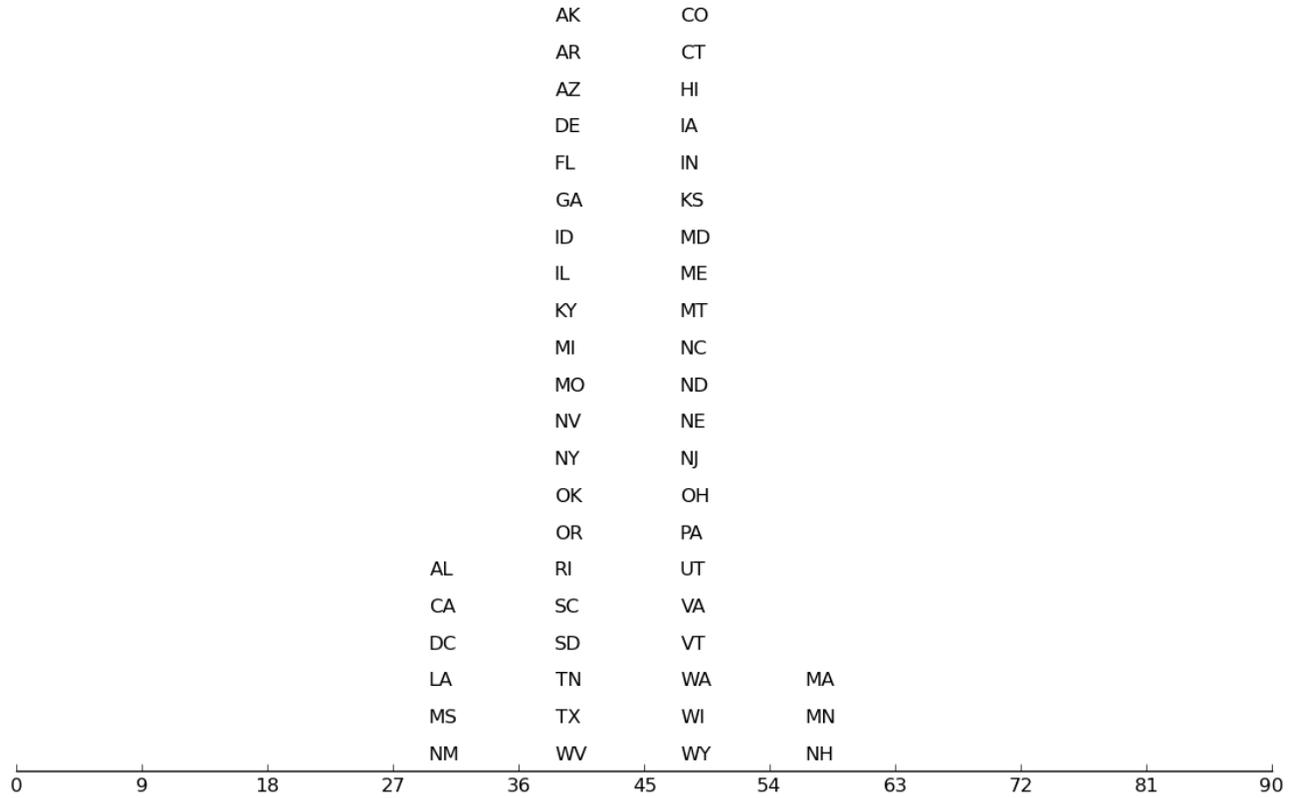


## 8-2F Fourth Grade Mathematics Proficiency, Male Students

Year: 2013

Distribution of states across indicator values

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## Chapter 8. State Indicators


**Table 8-2F Fourth Grade Mathematics Proficiency, Male Students**

State	4th grade math proficiency, male students (Percent)						
	2000	2003	2005	2007	2009	2011	2013
United States	25	34	37	41	40	41	42
Alabama	14	19	22	27	25	28	31
Alaska	NA	33	35	38	40	38	38
Arizona	16	28	32	34	30	36	40
Arkansas	14	27	36	38	39	37	39
California	13	28	30	31	32	35	35
Colorado	NA	37	41	44	46	49	53
Connecticut	33	45	45	46	49	46	46
Delaware	NA	34	38	40	40	40	43
District of Columbia	6	8	11	14	17	21	28
Florida	NA	33	38	43	42	38	41
Georgia	19	29	30	33	35	37	40
Hawaii	15	24	26	33	37	39	45
Idaho	20	34	42	42	42	41	44
Illinois	23	34	33	40	41	39	39
Indiana	31	37	38	48	42	46	52
Iowa	28	39	40	46	43	44	49
Kansas	31	44	48	54	48	48	49
Kentucky	19	24	29	33	39	39	43
Louisiana	14	22	26	25	24	26	28
Maine	25	37	41	43	48	48	48
Maryland	23	33	40	43	44	50	47
Massachusetts	33	44	50	60	59	60	59
Michigan	30	38	41	39	37	37	38
Minnesota	36	45	50	54	56	54	60

4th grade math proficiency, male students (Percent)							
State	2000	2003	2005	2007	2009	2011	2013
Mississippi	10	18	20	22	23	25	27
Missouri	24	30	34	40	43	42	40
Montana	27	33	42	47	49	48	48
Nebraska	25	36	39	40	39	41	48
Nevada	18	25	28	33	34	38	36
New Hampshire	NA	46	50	54	58	58	61
New Jersey	NA	41	47	55	51	53	51
New Mexico	14	21	21	26	27	31	33
New York	23	35	39	45	43	37	40
North Carolina	26	42	41	43	44	44	46
North Dakota	27	38	43	50	47	49	49
Ohio	28	37	45	49	48	47	49
Oklahoma	17	25	31	34	35	34	38
Oregon	25	35	37	38	40	37	42
Pennsylvania	NA	39	44	50	48	49	45
Rhode Island	25	29	32	36	43	43	44
South Carolina	20	34	37	36	36	36	36
South Dakota	NA	37	43	43	44	42	40
Tennessee	20	25	30	31	29	30	41
Texas	28	35	43	41	39	39	42
Utah	24	34	39	42	42	46	47
Vermont	29	44	47	51	53	52	52
Virginia	26	38	42	44	46	48	48
Washington	NA	39	43	46	45	46	49
West Virginia	19	26	28	35	30	33	36
Wisconsin	S	38	42	48	47	49	49
Wyoming	27	41	45	46	43	46	48
Puerto Rico	NA						

4th grade math proficiency, male students (Percent)

State	2000	2003	2005	2007	2009	2011	2013
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NA = not available; S = data are suppressed because reporting standards were not met.

SOURCE: National Center for Education Statistics, NAEP (various years).

NOTES: The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports.

*Science and Engineering Indicators 2016*