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THE MICHIGAN CONTEXT AND PERFORMANCE REPORT CARD

— PUBLIC ELEMENTARY AND MIDDLE SCHOOLS, 2017 —

By Ben DeGrow and Ronald Klingler



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The Michigan Context and Performance Report Card: Public Elementary and Middle Schools, 2017

By Ben DeGrow and Ronald Klingler

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Introduction

This report represents the third in a series designed to measure the academic performance of Michigan elementary and middle schools, and the first of the series to use results from the M-STEP assessment. Similar report cards were published in 2013 and 2015, based on different but overlapping years of scores on the defunct Michigan Educational Assessment Program.

The Context and Performance Report Card stands apart from standard measures of academic performance. It controls for the differences in students' socioeconomic status at each school. This provides a more accurate appraisal of a school's performance, since higher rates of student poverty are strongly correlated with lower academic subject test scores. Without this needed adjustment, school report cards could overrate the effectiveness of schools with relatively affluent student populations or underrate the effectiveness of schools with less affluent students.

The CAP report card also does not rely on creating a benchmark for "good" school performance. Rather, a school's score on the report card is based entirely on how well that school performs compared only to other schools. A high "CAP Score" means only that a school performs well compared to its peers.

As with prior editions, the report card uses multiple years of student achievement data so as not to allow one year's results to unduly influence a school's ratings. In this case, three years of M-STEP data for third through eighth grade subject tests are incorporated into determining a school's CAP Score.

Data and Methods

The research methodology used for this report card is based on a 2006 University of Arkansas study and previously published Mackinac Center report cards (see Appendix A for more detail). It uses regression analysis to predict how well each school would perform given the socioeconomic makeup of their students and given the average test scores of other schools. Schools are then ranked by how well they performed on state standardized tests relative to their predicted performance.

Student socioeconomic status is measured using data collected for the federal National School Lunch Program. The percentage of students who qualify to receive lunch assistance due to family income, as reported by the Michigan Department of Education, informs the analysis that generates each CAP Score. For the 2016-17 school year, the last year of testing data surveyed in this report, a student from a family of four with an annual household income of \$31,590 or less would qualify for a federally subsidized free lunch.^{*} As with previous editions, the portion of students eligible for a partially subsidized lunch was not included in the regression analysis. Prior research found that the share of reduced-priced lunch students did not have a strong statistical relationship with academic performance and so was not included in the statistical analysis in the interest of keeping the model as simple as possible.

This report uses grade-level data on free lunch status to generate an expected score for each M-STEP subject test at each grade level. As an example, a school's average scale score in fourth-grade science was regressed against the share of free lunch students counted in the school's fourth-grade student population.

A small note of caution is in order regarding the family poverty indicator. Some education policy experts have pointed out the limitations of using federal lunch subsidy eligibility as an identifier of student poverty.[†] Expanded criteria for eligibility has boosted the share of free and reduced-price lunch students nationally to almost 50 percent. The larger the portion of students who qualify for this program in the aggregate the less statistical meaningful this variable would likely become as a proxy for students' socioeconomic status.

While that represents a legitimate concern for the continued use of the indicator in many contexts, the impact on the generation of CAP Scores is mostly small. This analysis provides comparisons in terms of relative performance and relative poverty. Overall, these rates remain the best available proxy for identifying student socioeconomic status.

* Federal Register, Vol. 81, No. 56, Pg. 15503, <https://perma.cc/WFX9-7YWN>.

† Michael J. Petrilli, "No, Half of American Schoolchildren Are Not 'Low-Income,'" *Education Next*, Oct. 6, 2017, <https://perma.cc/QX39-SRRA>.

Test Score Data

In 2014, Michigan discarded the MEAP test in favor of the new Michigan Student Test of Educational Progress, or M-STEP. The first three years of M-STEP data — 2014 through 2016 — were used to generate the CAP Scores in this report. A school's total CAP Score is an average of the CAP Scores for each year. Each grade level was equally weighted to determine a yearly CAP Score, regardless of the different number of tests administered at certain grade levels.

Results from as many as 16 different individual tests could factor into each year's CAP Score, and up to 48 tests for the overall CAP Score. Students in grades three through eight are assessed in both mathematics and English language arts. Over the same grade span, two different groups of students also take tests in science (fourth and seventh grade) and social studies (fifth and eighth grade).

Most schools do not serve students in all grades three through eight; therefore, most schools received their CAP Score based on fewer than 48 test results. Schools without reported average M-STEP scale scores from at least one grade level in each of the 2016 and 2017 testing years were excluded from the grading. Also excluded were schools designated to primarily and exclusively serve students with special needs, as were schools designated as "alternative education" schools.

To generate a score, M-STEP subject tests were first normalized for each grade and subject test in each year. The CAP Score for each individual test in a given year then was averaged to determine a year-specific CAP Score. For most schools, the three-year scores were averaged together to generate the overall CAP Score. Some schools generated an overall CAP Score based on only two years of available data — mostly due to opening or first serving students in tested grades during the 2015-16 school year.

A CAP Score of 100 indicates that a school performed exactly as expected, given the socioeconomic status of its student population. A score greater than 100 means a school exceeded expectations, while a score lower than 100 means a school achieved below expectations. CAP Scores on this edition of the report card ranged from a low of 64.2 to a high of 138.8.

More details about how the scores were calculated can be found in "Appendix A: Calculating CAP Scores and Letter Grades."

Classifying Schools

Overall CAP Scores were issued for a total of 2,261 Michigan public elementary and middle schools. The results can be broken down by type of school. As in previous years, most are conventional schools operated by one of the state's 540 geographically based school districts. These schools are the default assignments for students who enroll in public school based on where they reside.

Roughly 12 percent of the sample are public charter schools that operate independently through a contract with a public authorizing agency and are often operated by private management companies. Like conventional schools, charters must serve all students who apply, but students must actively enroll to fill available slots. The list of 2,261 schools is rounded out by a handful of district-operated selective schools with policies that require students to demonstrate a certain level of academic performance in order to enroll.

Graphic 1: Types of Public Elementary and Middle Schools, 2015-2017

School Type	Number of Schools	Percentage of Schools
Conventional	1,983	87.70%
Charter	267	11.81%
Selective	11	0.49%
Total	2,261	100%

Source: Authors' calculations based on analysis of MDE data.

As in previous editions, schools that receive CAP Scores have been broken down by geographic “locale codes.” These codes indicate whether a school is located in an urban, suburban, town or rural area, as assigned by the federal National Center for Education Statistics. Specific descriptions of each locale category can be found in “Appendix B: Locale Codes.”

Nearly 64 percent of the graded Michigan schools are located in urban or suburban settings. The share of suburban schools has increased to 39 percent from 35 percent in the 2013 CAP report card. Meanwhile, the share of rural schools in the analysis has declined from 29 percent in 2013 to 24 percent today. The number of schools located in towns has inched up from previous editions.

Graphic 2: Public Elementary and Middle Schools by Locale, 2015-2017

Locale	Number of schools	Percentage of Total
City: Large	140	6.19%
City: Midsize	151	6.68%
City: Small	271	11.99%
City: Total	562	24.86%
Suburb: Large	690	30.52%
Suburb: Midsize	103	4.56%
Suburb: Small	87	3.85%
Suburb: Total	880	38.92%
Town: Fringe	100	4.42%
Town: Distant	95	4.20%
Town: Remote	90	3.98%
Town: Total	285	12.61%
Rural: Fringe	180	7.96%
Rural: Distant	246	10.88%
Rural: Remote	108	4.78%
Rural: Total	534	23.62%

Source: Authors' calculations using NCES and MDE data.

2017 Selected Results

The following tables show selected results from this report card, including the top- and bottom-scoring 100 public elementary and middle schools. It is not feasible to list all 2,261 ranked schools in this publication; however, interested readers can find an online database of all schools at www.mackinac.org/CAP2017.

The Top 100 Public Elementary and Middle Schools

The highest-ranked school in the latest version of the report card is Hamtramck Academy, a Detroit-area charter school that also finished in the top 1 percent of the rankings in the first two editions. In all, charters made up eight of the top 20 and 23 of the top 100 on this list. That showing represents almost twice the expected number, given that just under 12 percent of the schools in the total sample are charter schools.

Perhaps most remarkable, five of the top 10 schools on the newest report card belong to Dearborn Public Schools. More than half of the district's graded schools (16 of 29) finished in the top 100. Three smaller conventional districts also had notable appearances in the top 100: Cadillac (3 out of 6 schools), Covert (2 of 2) and Godwin Heights (2 of 3). Districts representing several large urban areas each only had one conventional school in the top 100: Detroit, Kalamazoo, Lansing and Grand Rapids. Meanwhile, 11 charter schools in Detroit cracked the top 100.

For the first time, some selective schools (three of the 11) did not finish in the top 100. On the previous two elementary and middle school report cards, no selective school had finished lower than 38th. Still, the handful of selective admission public schools surpassed the expected CAP Score mark by a significant margin.

As in previous editions, schools located in cities appear among the highest performers in disproportionate numbers: 53 of the top 100 schools operate in city environments. Of that number, 37 are conventional or selective district schools and 16 are charters. Schools located in towns average the highest CAP score of the four geographic locales. However, schools in towns and suburban settings are most underrepresented in the top 100 as shares of the overall sample.

In the larger city and suburban settings, charter schools as a whole tend to outperform their conventional district counterparts. However, more district schools edge charters in the less populated rural and town settings.

Top 100 Public Elementary and Middle Schools								
Table Rank	School Name	School Type	District or Municipality	Locale	# of Scores	Overall CAP Values		
						Score	Percent Rank	Grade
1	Hamtramck Academy	Charter	Hamtramck	Suburb: Large	48	138.83	100.00%	A
2	Iris Becker Elementary School	Conventional	Dearborn	City: Small	24	134.45	99.96%	A
3	Maples Elementary School	Conventional	Dearborn	City: Small	24	132.16	99.91%	A
4	New Paradigm College Prep	Charter	Detroit	City: Large	7	130.76	99.87%	A
5	Dearborn 6/7 STEM School	Conventional	Dearborn	City: Small	15	130.08	99.82%	A
6	Crestwood Accelerated Program	Selective	Crestwood	Suburb: Large	15	129.32	99.78%	A
7	Lowrey Middle School	Conventional	Dearborn	City: Small	24	126.31	99.73%	A
8	Middle School Math Science Tech Ctr.	Selective	Warren	City: Midsize	12	123.56	99.69%	A
9	Lowrey Elementary School	Conventional	Dearborn	City: Small	24	122.97	99.65%	A
10	Center for Economicology	Selective	Grand Rapids	City: Midsize	6	122.78	99.60%	A

Top 100 Public Elementary and Middle Schools								
Table Rank	School Name	School Type	District or Municipality	Locale	# of Scores	Overall CAP Values		
						Score	Percent Rank	Grade
11	Star International Academy	Charter	Dearborn Heights	Suburb: Large	48	122.41	99.56%	A
12	Martin Luther King, Jr. Education Center	Charter	Detroit	City: Large	48	121.95	99.51%	A
13	Handley School	Selective	Saginaw	City: Small	24	121.83	99.47%	A
14	William Ford Elementary School	Conventional	Dearborn	City: Small	24	121.79	99.43%	A
15	West Godwin Elementary School	Conventional	Godwin Heights	City: Small	15	121.21	99.38%	A
16	Detroit Edison Public School Academy	Charter	Detroit	City: Large	48	121.16	99.34%	A
17	Miller Elementary School	Conventional	Dearborn	City: Small	24	121.14	99.29%	A
18	The Dearborn Academy	Charter	Dearborn	City: Small	48	121.11	99.25%	A
19	Bridge Academy East	Charter	Hamtramck	Suburb: Large	24	120.75	99.20%	A
20	Bridge Academy West	Charter	Detroit	Suburb: Large	24	120.70	99.16%	A
21	Brown Elementary School	Conventional	Byron Center	Rural: Fringe	15	120.57	99.12%	A
22	Akron-Fairgrove Elem. School	Conventional	Akron-Fairgrove	Rural: Distant	24	120.34	99.07%	A
23	Lake Hills Elementary School	Conventional	Grand Haven	Suburb: Midsize	15	120.24	99.03%	A
24	Reo School	Conventional	Lansing	City: Midsize	6	119.48	98.98%	A
25	John Ball Park Zoo School	Selective	Grand Rapids	City: Midsize	6	119.46	98.94%	A
26	Beach Elementary School	Conventional	Fruitport	Suburb: Midsize	24	119.38	98.89%	A
27	Webster Elementary School	Conventional	Livonia	City: Small	30	119.31	98.85%	A
28	Kenwood Elementary School	Conventional	Cadillac	Town: Remote	15	119.12	98.81%	A
29	Hope of Detroit Academy	Charter	Detroit	City: Large	37	118.83	98.76%	A
30	Dickinson East Elementary School	Conventional	Hamtramck	Suburb: Large	30	118.74	98.72%	A
31	Hanley International Academy	Charter	Hamtramck	Suburb: Large	48	118.69	98.67%	A
32	Woodworth Middle School	Conventional	Dearborn	City: Small	24	118.69	98.63%	A
33	New Paradigm Glazer Academy	Charter	Detroit	City: Large	42	118.16	98.58%	A
34	North Godwin Elementary School	Conventional	Godwin Heights	City: Small	15	117.96	98.54%	A
35	Geer Park Elementary	Conventional	Dearborn	City: Small	24	117.85	98.50%	A
36	Grandville Central Elementary School	Conventional	Grandville	Suburb: Large	30	117.83	98.45%	A
37	Henry Ford Elementary School	Conventional	Dearborn	City: Small	24	117.56	98.41%	A
38	Oakman Elementary School	Conventional	Dearborn	City: Small	24	117.49	98.36%	A
39	Blandford Nature Center	Selective	Grand Rapids	City: Midsize	6	117.47	98.32%	A
40	Southwood Elementary	Conventional	Kentwood	Suburb: Large	24	116.85	98.28%	A
41	Highview Elementary School	Conventional	Crestwood	Suburb: Large	15	116.77	98.23%	A
42	Covert Elementary School	Conventional	Covert	Rural: Distant	24	116.76	98.19%	A
43	Saginaw Arts and Sciences Academy	Selective	Saginaw	City: Small	24	116.49	98.14%	A
44	Central Academy	Charter	Ann Arbor	City: Midsize	48	116.41	98.10%	A
45	City Middle/High School	Selective	Grand Rapids	City: Midsize	18	116.34	98.05%	A
46	Salina Elementary P-3	Conventional	Dearborn	City: Small	6	116.22	98.01%	A
47	Glenwood Elementary	Conventional	Kentwood	Suburb: Large	24	115.98	97.97%	A
48	Lybrook Elementary School	Conventional	Eau Claire	Rural: Fringe	24	115.94	97.92%	A
49	Unis Middle School	Conventional	Dearborn	City: Small	24	115.73	97.88%	A
50	Washtenaw International Middle Acad.	Conventional	Ypsilanti	Suburb: Large	27	115.70	97.83%	A
51	Cesar Chavez Academy Intermediate	Charter	Detroit	City: Large	24	115.61	97.79%	A
52	Rankin Elementary School	Conventional	Carman-Ainsworth	Suburb: Large	24	115.54	97.74%	A
53	Northridge Academy	Charter	Flint	City: Midsize	48	115.46	97.70%	A
54	Angell School	Conventional	Ann Arbor	City: Midsize	24	115.42	97.66%	A
55	Gallimore Elementary School	Conventional	Plymouth-Canton	Suburb: Large	24	115.27	97.61%	A
56	C.K. Schickler Elementary School	Conventional	Lapeer	Town: Fringe	24	115.05	97.57%	A
57	Forest View Elementary School	Conventional	Cadillac	Town: Remote	15	114.95	97.52%	A
58	Detroit Enterprise Academy	Charter	Detroit	City: Large	48	114.68	97.48%	A
59	Riverside Academy	Charter	Dearborn	City: Small	24	114.68	97.43%	A
60	Franklin Elementary School	Conventional	Cadillac	Town: Remote	15	114.60	97.39%	A
61	Lawrence Elementary School	Conventional	Lawrence	Rural: Distant	30	114.51	97.35%	A
62	Detroit Merit Charter Academy	Charter	Detroit	City: Large	48	114.46	97.30%	A
63	Baldwin Elementary School	Conventional	Baldwin	Rural: Remote	30	114.41	97.26%	A
64	Salina Intermediate 4-8	Conventional	Dearborn	City: Small	42	114.39	97.21%	A

Top 100 Public Elementary and Middle Schools								
Table Rank	School Name	School Type	District or Municipality	Locale	# of Scores	Overall CAP Values		
						Score	Percent Rank	Grade
65	Glencairn School	Conventional	East Lansing	City: Small	24	114.33	97.17%	A
66	Greenwood Elementary School	Conventional	Kalamazoo	City: Small	6	114.08	97.13%	A
67	Cesar Chavez Academy Elem. East	Charter	Detroit	City: Large	22	114.04	97.08%	A
68	Rose City School	Conventional	West Branch-Rose City	Rural: Remote	30	113.86	97.04%	A
69	New Paradigm Loving Academy	Charter	Detroit	City: Large	41	113.83	96.99%	A
70	North Holland Elementary School	Conventional	West Ottawa	Suburb: Small	24	113.82	96.95%	A
71	Eagle Crest Charter Academy	Charter	Holland	Suburb: Small	48	113.76	96.90%	A
72	Lee Middle School	Conventional	Godfrey-Lee	City: Small	24	113.70	96.86%	A
73	Burr Elementary School	Conventional	Utica	Suburb: Large	29	113.60	96.82%	A
74	Lakeshore Elementary School	Conventional	West Ottawa	Suburb: Small	24	113.58	96.77%	A
75	Frankfort Elementary School	Conventional	Frankfort-Elberta	Rural: Remote	30	113.56	96.73%	A
76	Griffin Elementary School	Conventional	Grand Haven	Suburb: Midsize	15	113.48	96.68%	A
77	Stout Middle School	Conventional	Dearborn	City: Small	24	113.36	96.64%	A
78	Andrews Elementary School	Conventional	Three Rivers	Town: Fringe	24	113.32	96.59%	A
79	Great Oaks Academy	Charter	Warren	City: Midsize	48	113.04	96.55%	A
80	Whittemore-Prescott Area Elementary	Conventional	Whittemore-Prescott	Rural: Remote	30	113.00	96.51%	A
81	Jamestown Elementary School	Conventional	Hudsonville	Suburb: Large	24	112.97	96.46%	A
82	Eastlawn School	Conventional	Midland	City: Small	24	112.96	96.42%	A
83	Sanborn School	Conventional	Alpena	Town: Remote	24	112.80	96.37%	A
84	Berrien Springs Middle School	Conventional	Berrien Springs	Town: Fringe	24	112.73	96.33%	A
85	Stocking Elementary	Conventional	Grand Rapids	City: Midsize	24	112.67	96.28%	A
86	Clara B. Bolen Elementary School	Conventional	Tawas	Rural: Fringe	15	112.66	96.24%	A
87	STEM Academy	Conventional	Comstock	Suburb: Midsize	42	112.64	96.20%	A
88	Onaway Elementary School	Conventional	Onaway	Rural: Remote	24	112.57	96.15%	A
89	McCullough Elementary School	Conventional	Dearborn	City: Small	24	112.48	96.11%	A
90	South Arbor Charter Academy	Charter	Ypsilanti	Rural: Fringe	48	112.47	96.06%	A
91	Marion Elementary School	Conventional	Marion	Rural: Remote	24	112.45	96.02%	A
92	Clague Middle School	Conventional	Ann Arbor	City: Midsize	24	112.41	95.98%	A
93	Davison Elementary-Middle School	Conventional	Detroit	City: Large	48	112.29	95.93%	A
94	Meadowlawn Elementary	Conventional	Kentwood	Suburb: Large	24	112.28	95.89%	A
95	Martin Luther King Elem. School	Conventional	Ann Arbor	City: Midsize	24	112.04	95.84%	A
96	Covert Middle School	Conventional	Covert	Rural: Distant	24	111.99	95.80%	A
97	Arbor Academy	Charter	Battle Creek	City: Small	30	111.96	95.75%	A
98	Sterling Elementary School	Conventional	Standish-Sterling	Rural: Distant	24	111.92	95.71%	A
99	Boulan Park Middle School	Conventional	Troy	City: Small	24	111.79	95.67%	A
100	Leonidas School	Conventional	Colon	Rural: Distant	5	111.76	95.62%	A

The Bottom 100 Public Elementary and Middle Schools

Consistent with prior releases of the elementary and middle school report card, most of the lowest-rated schools are located in the city of Detroit. This reflects poor performance even after adjusting for the poverty levels of students who were tested. Thirteen of the 16 lowest performers and 41 of the bottom 100 schools were run by Detroit Public Schools or the Detroit Public Schools Community District, as the district is now known.

Only one of the bottom 10 and four of the bottom 50 were part of the Education Achievement Authority. This represents an improvement for the EAA, which had six of the seven lowest-performing schools on the previous report card. Formed in 2012, the EAA was a “school turnaround” district that was tasked with running Detroit’s worst-performing schools. As part of a package of 2016 legislative reforms, the EAA was

closed down at the end of the 2016-17 school year, and its schools restored to the control of the newly constituted Detroit Public Schools Community District.*

The same number of charter schools finished in the bottom 100 as in the top 100: 23. Interestingly, the lowest performers are comprised of a significantly newer set of schools. More than half of the lowest-performing charter schools were opened in 2012 or later, and one was closed down due to financial troubles in 2017. On the other hand, all but two of the charters in the top 100 were opened before 2012.

Nearly three-fourths of the bottom 100 schools were located in cities, a rate far higher than expected given their proportionate representation in the sample. Only seven rural and three town schools finished among the lowest performers.

Bottom 100 Public Elementary and Middle Schools								
Table Rank	School Name	School Type	District or Municipality	Locale	# of Scores	Overall CAP Values		
						Score	Percent Rank	Grade
1	Turning Point Academy	Conventional	Detroit	City: Large	8	64.20	0.04%	F
2	Douglass Academy for Young Men	Conventional	Detroit	City: Large	12	74.44	0.09%	F
3	Marquette Elementary-Middle School	Conventional	Detroit	City: Large	48	75.65	0.13%	F
4	John R. King Academic & Performing Arts	Conventional	Detroit	City: Large	48	75.92	0.18%	F
5	Henderson Academy	Conventional	Detroit	City: Large	48	76.15	0.22%	F
6	Burns Elementary-Middle School	Conventional	EAA (Detroit)	City: Large	48	76.50	0.27%	F
7	STEAM Academy at MLK	Conventional	Benton Harbor	City: Small	40	76.52	0.31%	F
8	Eastside Detroit Lions Academy	Conventional	Detroit	City: Large	24	77.22	0.35%	F
9	Academy of The Americas	Conventional	Detroit	City: Large	48	77.41	0.40%	F
10	J.E. Clark Preparatory Academy	Conventional	Detroit	City: Large	48	78.78	0.44%	F
11	Law Elementary School	Conventional	EAA (Detroit)	City: Large	48	79.33	0.49%	F
12	Mason Elementary School	Conventional	Detroit	City: Large	48	79.60	0.53%	F
13	Sampson Academy	Conventional	Detroit	City: Large	47	79.78	0.57%	F
14	Bow Elementary-Middle School	Conventional	Detroit	City: Large	48	79.78	0.62%	F
15	Blackwell Institute	Conventional	Detroit	City: Large	48	79.79	0.66%	F
16	Mackenzie Elementary-Middle School	Conventional	Detroit	City: Large	48	80.22	0.71%	F
17	Branch Line School	Charter	Livonia	City: Small	20	80.38	0.75%	F
18	Macomb Montessori Academy	Charter	Warren	City: Midsize	28	80.40	0.80%	F
19	J.W. Sexton High School	Conventional	Lansing	City: Midsize	18	80.51	0.84%	F
20	Durfee Elementary-Middle School	Conventional	Detroit	City: Large	48	80.61	0.88%	F
21	Northwestern Middle School	Conventional	Battle Creek	City: Small	24	80.98	0.93%	F
22	Fourth Street Learning Center	Conventional	Jackson	City: Small	16	80.99	0.97%	F
23	Flat River Academy Middle/High School	Charter	Greenville	Rural: Fringe	18	81.08	1.02%	F
24	Keys Grace Academy	Charter	Madison Heights	Suburb: Large	32	81.22	1.06%	F
25	Bagley Elementary School	Conventional	Detroit	City: Large	30	81.34	1.11%	F
26	Insight School of Michigan	Charter	Lansing	Suburb: Large	24	81.47	1.15%	F
27	Ann Arbor Trail Magnet School	Conventional	Detroit	City: Large	48	81.52	1.19%	F
28	Leelanau Montessori PSA	Charter	Suttons Bay	Rural: Distant	16	81.53	1.24%	F
29	Schulze Elementary-Middle School	Conventional	Detroit	City: Large	30	81.60	1.28%	F
30	Frederick Douglass International Academy	Charter	Madison Heights	Suburb: Large	16	82.00	1.33%	F
31	Kelly Middle School	Conventional	East Detroit	Suburb: Large	24	82.23	1.37%	F
32	Muskegon Heights Academy	Charter	Muskegon	Suburb: Midsize	18	82.25	1.42%	F
33	Priest Elementary-Middle School	Conventional	Detroit	City: Large	48	82.29	1.46%	F
34	Taylor International Academy	Charter	Southfield	City: Small	48	82.79	1.50%	F
35	Arts & Comm. Academy at Fair Plain	Conventional	Benton Harbor	City: Small	40	82.83	1.55%	F
36	Gardner Academy	Conventional	Lansing	City: Midsize	46	82.84	1.59%	F

* For the testing years included in this analysis, all conventional Detroit schools either were part of the Detroit Public Schools (2015 and 2016) and Detroit Public Schools Community District (2017) or belonged to the Education Achievement Authority for all three years.

Bottom 100 Public Elementary and Middle Schools								
Table Rank	School Name	School Type	District or Municipality	Locale	# of Scores	Overall CAP Values		
						Score	Percent Rank	Grade
37	Thompson Middle School	Conventional	Saginaw	City: Small	17	82.94	1.64%	F
38	Brenda Scott Academy for Theatre Arts	Conventional	EAA (Detroit)	City: Large	48	83.07	1.68%	F
39	Fisher Magnet Upper Academy	Conventional	Detroit	City: Large	33	83.25	1.72%	F
40	Earhart Elementary-Middle School	Conventional	Detroit	City: Large	48	83.29	1.77%	F
41	Gardner Elementary School	Conventional	Detroit	City: Large	24	83.40	1.81%	F
42	Thirkell Elementary School	Conventional	Detroit	City: Large	42	83.40	1.86%	F
43	Mann Elementary School	Conventional	Detroit	City: Large	23	83.40	1.90%	F
44	Edison Elementary School	Conventional	Detroit	City: Large	24	83.59	1.95%	F
45	Palmer Park Preparatory Academy	Conventional	Detroit	City: Large	48	84.06	1.99%	F
46	Mary McLeod Bethune Elem.-Middle Sch.	Conventional	EAA (Detroit)	City: Large	48	84.25	2.03%	F
47	Dossin Elementary-Middle School	Conventional	Detroit	City: Large	48	84.26	2.08%	F
48	Brewer Elementary-Middle School	Conventional	Detroit	City: Large	48	84.32	2.12%	F
49	Ann J. Kellogg School	Conventional	Battle Creek	City: Small	24	84.38	2.17%	F
50	Alger Middle School	Conventional	Grand Rapids	City: Midsize	24	84.50	2.21%	F
51	Taylor Virtual Learning Academy	Conventional	Taylor	City: Small	6	84.66	2.26%	F
52	Young, Coleman A. Elementary	Conventional	Detroit	City: Large	24	84.78	2.30%	F
53	Lansing K-8 STEM Magnet Academy	Conventional	Lansing	City: Midsize	48	85.15	2.34%	F
54	Eaton Academy	Charter	Detroit	Suburb: Large	48	85.27	2.39%	F
55	Carstens Elementary-Middle School	Conventional	Detroit	City: Large	48	85.32	2.43%	F
56	Neinas Dual Language Learning Academy	Conventional	Detroit	City: Large	31	85.34	2.48%	F
57	Battle Creek Montessori Academy	Charter	Springfield	Suburb: Small	33	85.36	2.52%	F
58	West Michigan Virtual - Battle Creek MS	Conventional	Berrien Springs	Town: Fringe	14	85.42	2.57%	F
59	Bear Lake High School	Conventional	Bear Lake	Rural: Remote	18	85.42	2.61%	F
60	Mid Peninsula School	Conventional	Rock	Rural: Distant	43	85.52	2.65%	F
61	Sarah J. Webber Media Arts Academy	Charter	Pontiac	City: Small	33	85.63	2.70%	F
62	Edward "Duke" Ellington @ Beckham	Conventional	Detroit	City: Large	48	85.74	2.74%	F
63	Noble Elementary-Middle School	Conventional	Detroit	City: Large	48	85.81	2.79%	F
64	Detroit Public Safety Academy	Charter	Detroit	City: Large	17	85.82	2.83%	F
65	Multicultural Academy	Charter	Ann Arbor	Suburb: Large	40	85.86	2.87%	F
66	Ecorse Community High School	Conventional	Ecorse	Suburb: Large	9	85.91	2.92%	F
67	Pulaski Elementary-Middle School	Conventional	Detroit	City: Large	48	86.02	2.96%	F
68	Faxon Language Immersion Academy	Charter	Farmington Hills	City: Small	19	86.06	3.01%	F
69	Hamilton Academy	Charter	Detroit	City: Large	48	86.07	3.05%	F
70	Spain Elementary-Middle School	Conventional	Detroit	City: Large	48	86.21	3.10%	F
71	Herrington School	Conventional	Pontiac	City: Small	30	86.23	3.14%	F
72	Marshall Thurgood Elementary School	Conventional	Detroit	City: Large	48	86.28	3.18%	F
73	Holmes STEM Academy	Conventional	Flint	City: Midsize	39	86.36	3.23%	F
74	George Washington Carver Elem. School	Charter	Highland Park	Suburb: Large	15	86.55	3.27%	F
75	Barber Elementary School	Charter	Highland Park	Suburb: Large	48	86.62	3.32%	F
76	Jessie Loomis School	Conventional	Saginaw	City: Small	28	86.64	3.36%	F
77	Country Elementary School	Conventional	Pinckney	Rural: Fringe	6	86.76	3.41%	F
78	Joseph G. Steenland Elementary School	Conventional	Roseville	Suburb: Large	24	86.86	3.45%	F
79	Michigan Great Lakes Virtual Academy	Charter	Manistee	Town: Remote	48	86.88	3.49%	F
80	Vernor Elementary School	Conventional	Detroit	City: Large	30	86.88	3.54%	F
81	The Greenspire School	Charter	Traverse City	Town: Remote	24	86.91	3.58%	F
82	Munger Elementary-Middle School	Conventional	Detroit	City: Large	48	87.06	3.63%	F
83	Baraga School	Conventional	Baraga	Rural: Remote	40	87.12	3.67%	F
84	Ludington Magnet Middle School	Conventional	Detroit	City: Large	33	87.21	3.72%	F
85	Dickinson School	Conventional	Grand Rapids	City: Midsize	39	87.22	3.76%	F
86	Owen Elementary School	Conventional	Pontiac	City: Small	30	87.47	3.80%	F
87	Kensington Woods Schools	Charter	Lakeland	Suburb: Midsize	24	87.47	3.85%	F
88	North School	Conventional	Lansing	City: Midsize	30	87.51	3.89%	F
89	Dixon Elementary School	Conventional	Detroit	City: Large	48	87.54	3.94%	F
90	Greenfield Union Elem.-Middle School	Conventional	Detroit	City: Large	48	87.59	3.98%	F

Bottom 100 Public Elementary and Middle Schools								
Table Rank	School Name	School Type	District or Municipality	Locale	# of Scores	Overall CAP Values		
						Score	Percent Rank	Grade
91	Paul Robeson Malcolm X Academy	Conventional	Detroit	City: Large	48	87.75	4.02%	F
92	Attwood School	Conventional	Lansing	City: Midsize	24	87.78	4.07%	F
93	Eastern High School	Conventional	Lansing	City: Midsize	18	87.92	4.11%	F
94	Mohawk Elementary School	Conventional	Chippewa Valley	Suburb: Large	24	88.01	4.16%	F
95	Crescent Academy Middle School	Charter	Southfield	City: Small	30	88.20	4.20%	F
96	Roseville Middle School	Conventional	Roseville	Suburb: Large	24	88.22	4.25%	F
97	Brick Elementary School	Conventional	Lincoln	Rural: Fringe	24	88.25	4.29%	F
98	New Bedford Academy	Charter	Lambertville	Suburb: Large	36	88.27	4.33%	F
99	Lincoln Elementary School	Conventional	Van Dyke	City: Midsize	24	88.34	4.38%	F
100	Randolph Elementary School	Conventional	Livonia	City: Small	15	88.37	4.42%	F

Long-Term Trends in CAP Scores

This third edition of the Elementary and Middle School Context and Report Card allows for the first examination of longer-term achievement trends. A comparison with the data used to compile CAP Scores for the previous editions of this report card can help provide evidence of schools that have made significant improvement or decline in their relative academic performance in recent years. It can also help to highlight schools that have sustained high or low levels of academic performance over a longer period of time.*

Most Improved and Largest Declines

Schools that appear in the current edition of the Elementary and Middle School Report Card and generate at least six unique yearly CAP Scores between 2009 and 2016 were included in this long-term comparative analysis. Due to the processes of consolidation and grade reconfiguration that occurred in some locations, only scores from schools with a consistent building code number from the Michigan Department of Education were used. That includes schools with consistent building codes but two different district codes – notably, the Detroit schools that operated under the Education Achievement Authority. In all, these criteria provided a sample of 2,093 schools to analyze.

To identify changes in school performance over time, the difference is measured between a school's new overall CAP Score and an average of the calculated yearly CAP Scores between 2009-10 and 2013-14.† For example, Lakeshore Elementary School in Ottawa County received a 113.58 CAP Score in this edition of the report card. The average of its annual CAP Scores from 2009-10 to 2013-14 is 113.33. Therefore, Lakeshore Elementary registered a 0.25 point improvement ($113.58 - 113.33 = 0.25$).

* In smaller schools, with fewer students taking the test, we can expect the average of that test to fluctuate more from year to year. This plays out, as we identified a negative correlation (-0.1051) between school size and absolute value of change in CAP Scores as measured in this analysis. That means smaller schools are more likely to appear among those with the largest identified CAP Score changes. Sixty-one of the 100 most improved schools, and 62 of the schools with the largest declines, had smaller student enrollments than the sample's median enrollment size for the 2016-17 school year.

† A comparison of an average based on five different time points with an average based on three different time points proves valid for two reasons. First, there are very strong correlations between the five-year average (CAP Scores 2009-2013) and an alternate three-year average (CAP Scores 2011-2013): 97 percent in levels and 95 percent in change measures. Second, the five-year average and alternate three-year average yield highly similar standard deviations: 6.407 and 6.580, respectively.

It is important to observe that each year's individual tested CAP Scores are normalized to the sample of all test results for that grade and subject available in the sample. This addresses concerns that measurable improvements or declines might be biased by a change in tests from the earlier five-year sample of MEAP tests to the newer three-year sample of M-STEP assessments.

100 Most Improved Public Elementary and Middle Schools

Nearly 80 schools, roughly 4 percent of the total sample, registered an average CAP Score increase of 10 points or greater. At the top of the list are two campuses of the New Paradigm Glazer-Loving Academy, formerly Detroit Public Schools conventional schools that reopened as charters authorized by DPSCD. A total of seven Detroit charter schools qualified for the 25 most improved, and 15 of the top 100. Six of the 15 highly improved Detroit charters, including the two New Paradigm schools, were previously managed by DPS but converted to charters during the period examined. In all, 30 of the 100 most improved are charter schools, despite these schools comprising only 10 percent of the sample.

The most improved district school is rural Akron-Fairgrove Elementary, located east of the Saginaw-Bay City area. As in the latest overall CAP Scores, the Dearborn School District was well represented with six in the top 100 list. City schools as a whole are overrepresented, claiming 37 of the top 100 most improved schools.

100 Most Improved Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	CAP Scores		
					2009-2013	2014-2016	Change
1	New Paradigm Glazer Academy	Charter*	Detroit	City: Large	92.92	118.16	25.24
2	New Paradigm Loving Academy	Charter*	Detroit	City: Large	93.13	113.83	20.69
3	Akron-Fairgrove Elem. School	Conventional	Akron-Fairgrove	Rural: Distant	101.78	120.34	18.56
4	Beach Elementary School	Conventional	Fruitport	Suburb: Midsize	100.86	119.38	18.52
5	Detroit Community Schools-Elementary	Charter	Detroit	City: Large	87.80	104.99	17.19
6	The Dearborn Academy	Charter	Dearborn	City: Small	104.54	121.11	16.57
7	Rutherford Winans Academy	Charter*	Detroit	City: Large	91.89	108.13	16.24
8	Barth Elementary School	Conventional	Romulus	Suburb: Large	94.73	110.82	16.09
9	Maples Elementary School	Conventional	Dearborn	City: Small	116.09	132.16	16.07
10	Hanley International Academy	Charter	Hamtramck	Suburb: Large	103.67	118.69	15.02
11	Gallimore Elementary School	Conventional	Plymouth-Canton	Suburb: Large	100.60	115.27	14.68
12	Hope of Detroit Academy	Charter	Detroit	City: Large	104.27	118.83	14.55
13	Whitmer Human Resource Center	Conventional	Pontiac	City: Small	73.94	88.46	14.52
14	Litchfield High School	Conventional	Litchfield	Rural: Distant	86.46	100.93	14.48
15	Hamtramck Academy	Charter	Hamtramck	Suburb: Large	124.64	138.83	14.20
16	Emerald Elementary School	Conventional	Manistique	Town: Remote	97.62	111.70	14.08
17	Haas Elementary School	Conventional	Genesee	Suburb: Large	96.48	110.26	13.78
18	Douglas Elementary 3-4 Campus	Conventional	Garden City	Suburb: Large	90.74	104.46	13.71
19	Lakeview Elementary School	Conventional	Lakeview (Montcalm)	Rural: Distant	92.01	105.53	13.52
20	Holton Elementary School	Conventional	Holton	Rural: Distant	94.65	108.11	13.46
21	Litchfield Elementary School	Conventional	Litchfield	Rural: Distant	90.32	103.63	13.31
22	Trix Performance Academy	Charter*	Detroit	City: Large	79.91	93.21	13.30
23	Detroit Edison Public School Academy	Charter	Detroit	City: Large	107.88	121.16	13.28
24	C.K. Schickler Elementary School	Conventional	Lapeer	Town: Fringe	101.82	115.05	13.24
25	William Ford Elementary School	Conventional	Dearborn	City: Small	108.69	121.79	13.10
26	Cooley Elementary School	Conventional	Waterford	Suburb: Large	95.37	108.35	12.98
27	Global Heights Academy	Charter	Dearborn Heights	Suburb: Large	92.42	105.29	12.86
28	Farmington 5-6 Campus	Conventional	Garden City	Suburb: Large	87.68	100.35	12.67
29	Arbor Academy	Charter	Battle Creek	City: Small	99.30	111.96	12.67
30	Northridge Academy	Charter	Flint	City: Midsize	102.92	115.46	12.54

100 Most Improved Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	CAP Scores		
					2009-2013	2014-2016	Change
31	Sanborn School	Conventional	Alpena	Town: Remote	100.28	112.80	12.53
32	Detroit Academy of Arts & Sciences M.S.	Charter	Detroit	City: Large	90.47	102.98	12.51
33	Miller Elementary School	Conventional	Dearborn	City: Small	108.79	121.14	12.35
34	Hoover Middle School	Conventional	Taylor	City: Small	94.78	107.05	12.27
35	Ashley Elementary School	Conventional	Ashley	Rural: Distant	99.08	111.34	12.26
36	Henry Ford Academy: Sch. for Creative Std.	Charter	Detroit	City: Large	90.08	102.33	12.25
37	Regent Park Scholars Charter Academy	Charter	Detroit	City: Large	92.81	105.02	12.20
38	Lake Hills Elementary School	Conventional	Grand Haven	Suburb: Midsize	108.05	120.24	12.19
39	Pine River Elementary School	Conventional	Bullock Creek	Rural: Fringe	98.89	110.79	11.90
40	Hillsdale Preparatory School	Charter	Hillsdale	Town: Distant	95.73	107.53	11.79
41	Nah Tah Wahsh Public School Academy	Charter	Wilson	Rural: Remote	96.01	107.73	11.72
42	Detroit Enterprise Academy	Charter	Detroit	City: Large	102.99	114.68	11.69
43	Hillcrest Elementary School	Conventional	Crestwood	Suburb: Large	99.80	111.14	11.34
44	Mackinaw City K-12 School	Conventional	Mackinaw City	Rural: Distant	94.84	106.15	11.30
45	Henry Ford Elementary School	Conventional	Dearborn	City: Small	106.33	117.56	11.23
46	Springport Elementary School	Conventional	Springport	Rural: Distant	99.45	110.63	11.18
47	Dundee Elementary School	Conventional	Dundee	Town: Fringe	90.75	101.85	11.11
48	Wolverine Elementary School	Conventional	Wolverine	Rural: Remote	99.37	110.41	11.04
49	Greenwood Elementary School	Conventional	Kalamazoo	City: Small	103.05	114.08	11.02
50	River Oaks Elementary School	Conventional	Dearborn	City: Small	98.77	109.78	11.01
51	Lawrence Elementary School	Conventional	Lawrence	Rural: Distant	103.52	114.51	10.99
52	Parchment Northwood Elem. School	Conventional	Parchment	Suburb: Midsize	97.39	108.28	10.89
53	Kenwood Elementary School	Conventional	Cadillac	Town: Remote	108.26	119.12	10.86
54	North Holland Elementary School	Conventional	West Ottawa	Suburb: Small	102.96	113.82	10.86
55	Legacy Charter Academy	Charter	Detroit	City: Large	96.31	107.13	10.81
56	Schuchard Elementary School	Conventional	Utica	Suburb: Large	98.92	109.73	10.81
57	Nolan Elementary-Middle School	Conventional	Detroit/EAA	City: Large	81.66	92.41	10.76
58	Bridge Academy West	Charter	Detroit	Suburb: Large	110.04	120.70	10.66
59	Posen Elementary School	Conventional	Posen	Rural: Remote	96.45	107.09	10.64
60	Gudith Elementary School	Conventional	Woodhaven-Brownstown	Suburb: Large	91.54	102.17	10.63
61	Wagar 7/8 Middle School	Conventional	Airport	Rural: Fringe	91.24	101.82	10.58
62	Swan Valley Middle School	Conventional	Swan Valley	Suburb: Midsize	94.47	104.97	10.50
63	Camden-Frontier K-8 School	Conventional	Camden-Frontier	Rural: Distant	95.11	105.61	10.50
64	North Dickinson School	Conventional	North Dickinson	Rural: Remote	89.91	100.37	10.46
65	Robert J. West Middle School	Conventional	Taylor	City: Small	100.31	110.75	10.44
66	Timberland Academy	Charter	Muskegon	Suburb: Midsize	97.34	107.75	10.41
67	Buchanan High School	Conventional	Buchanan	Suburb: Large	99.95	110.35	10.40
68	Rogers City Elementary School	Conventional	Rogers City	Town: Remote	93.37	103.76	10.39
69	Michigan Math. and Science Academy	Charter	Center Line	Suburb: Large	96.66	107.03	10.38
70	Green Meadow Elementary School	Conventional	Comstock	Suburb: Midsize	100.27	110.52	10.25
71	Jenison International Academy	Conventional	Jenison	Suburb: Large	89.74	99.99	10.25
72	Angus Elementary School	Conventional	Warren	City: Midsize	96.43	106.62	10.19
73	Potterville Elementary School	Conventional	Potterville	Rural: Fringe	86.00	96.19	10.19
74	Northglade Montessori School	Conventional	Kalamazoo	City: Small	96.39	106.57	10.18
75	Ralph J. Bunche Academy	Conventional	Ecorse	Suburb: Large	96.24	106.39	10.15
76	Quest Charter Academy	Charter	Taylor	City: Small	94.71	104.86	10.15
77	Akron-Fairgrove Jr/Sr High School	Conventional	Akron-Fairgrove	Rural: Distant	97.40	107.49	10.09
78	Lincoln Community School	Conventional	Alpena	Town: Remote	99.34	109.41	10.07
79	Hamilton Academy	Charter*	Detroit	City: Large	76.04	86.07	10.02
80	Fairview School	Conventional	Lansing	City: Midsize	100.12	110.08	9.96
81	Lee Middle School	Conventional	Godfrey-Lee	City: Small	103.75	113.70	9.95
82	Murphy Performance Academy	Charter*	Detroit	City: Large	84.50	94.38	9.88
83	Parchment Middle School	Conventional	Parchment	Suburb: Midsize	100.91	110.71	9.80
84	West Godwin Elementary School	Conventional	Godwin Heights	City: Small	111.43	121.21	9.77

100 Most Improved Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	CAP Scores		
					2009-2013	2014-2016	Change
85	Bridge Academy East	Charter	Hamtramck	Suburb: Large	110.99	120.75	9.76
86	Lansing Charter Academy	Charter	Lansing	City: Midsize	93.04	102.67	9.63
87	McKinley Elementary School	Conventional	Van Dyke	City: Midsize	94.63	104.19	9.57
88	Elmwood Elementary School	Conventional	Waverly	Suburb: Large	100.81	110.37	9.56
89	Bark River-Harris Elementary School	Conventional	Bark River-Harris	Rural: Remote	96.32	105.85	9.53
90	Landmark Academy	Charter	Kimball	Suburb: Small	91.19	100.70	9.50
91	Kate Dowdall Elementary School	Conventional	Kearsley	Suburb: Large	97.69	107.11	9.42
92	Laingsburg Elementary School	Conventional	Laingsburg	Rural: Distant	90.16	99.54	9.39
93	Morrice Area Elementary School	Conventional	Morrice	Rural: Fringe	89.01	98.32	9.32
94	Trillium Academy	Charter	Taylor	City: Small	92.90	102.09	9.19
95	Dryden High School	Conventional	Dryden	Rural: Distant	87.79	96.92	9.13
96	McCullough Elementary School	Conventional	Dearborn	City: Small	103.45	112.48	9.03
97	Hanover-Horton Elementary School	Conventional	Hanover-Horton	Rural: Distant	93.82	102.84	9.02
98	Oakwood Intermediate	Conventional	Allendale	Suburb: Large	97.60	106.60	9.01
99	Engadine Schools	Conventional	Engadine	Rural: Remote	92.35	101.35	9.00
100	Woodworth Elementary School	Conventional	Leslie	Rural: Fringe	92.85	101.83	8.98

* Denotes schools that changed from district to charter management, 2009-2016

100 Largest Declines Among Public Elementary and Middle Schools

Schools experiencing the largest declines were top performers on previous editions of this report card. Thirkell Elementary, a Detroit conventional school, finished first in the 2013 edition of the report card. Ross-Hill Academy, a DPS-authorized charter that closed in 2017, ranked second statewide on the 2015 report card. Respectively, these two schools experienced the largest measurable CAP Score declines.

In all, 14 of the 20 biggest declines, and 35 of the top 100, came from Detroit. All but four are run by DPSCD. While 60 of the 100 biggest drops occurred in city schools, the Charles C. McGlennen School in suburban Clintondale stands out as the only noncity school in the bottom 15. Half as many charters placed in the bottom 100 as were among the 100 most improved, though they were overrepresented on both lists.

100 Largest Declines Among Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	CAP Scores		
					2009-2013	2014-2016	Change
1	Thirkell Elementary School	Conventional	Detroit	City: Large	132.36	83.40	(48.96)
2	Ross-Hill Academy - Elementary	Charter	Detroit	City: Large	128.61	88.61	(40.01)
3	Charles C. McGlennen School	Conventional	Clintondale	Suburb: Large	113.28	89.33	(23.95)
4	Ronald Brown Academy	Conventional	Detroit	City: Large	111.85	88.42	(23.43)
5	Arts & Comm. Academy at Fair Plain	Conventional	Benton Harbor	City: Small	105.49	82.83	(22.66)
6	Kendon School	Conventional	Lansing	City: Midsize	113.19	91.41	(21.79)
7	Dixon Elementary School	Conventional	Detroit	City: Large	109.07	87.54	(21.53)
8	Ann Arbor Trail Magnet School	Conventional	Detroit	City: Large	101.90	81.52	(20.38)
9	Thurgood Marshall Elementary School	Conventional	Detroit	City: Large	105.93	86.28	(19.65)
10	Edison Elementary School	Conventional	Detroit	City: Large	103.20	83.59	(19.60)
11	Academy of The Americas	Conventional	Detroit	City: Large	96.93	77.41	(19.52)
12	Mann Elementary School	Conventional	Detroit	City: Large	102.28	83.40	(18.88)
13	Coit Arts Academy	Conventional	Grand Rapids	City: Midsize	115.99	97.46	(18.54)
14	Vernor Elementary School	Conventional	Detroit	City: Large	104.86	86.88	(17.98)
15	Chrysler Elementary School	Conventional	Detroit	City: Large	111.68	94.73	(16.96)
16	Detroit Service Learning Academy Campus	Charter	Detroit	City: Large	113.25	96.30	(16.95)
17	Arenac Eastern Elementary/Middle School	Conventional	Arenac	Rural: Remote	108.38	91.55	(16.83)
18	Douglass Academy for Young Men	Conventional	Detroit	City: Large	91.24	74.44	(16.80)

100 Largest Declines Among Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	CAP Scores		
					2009-2013	2014-2016	Change
19	Bow Elementary-Middle School	Conventional	Detroit	City: Large	96.14	79.78	(16.36)
20	Robbie Hall Parker School	Conventional	Clintondale	Suburb: Large	120.09	104.15	(15.94)
21	Bear Lake High School	Conventional	Bear Lake	Rural: Remote	101.31	85.42	(15.89)
22	East Leonard School	Conventional	Grand Rapids	City: Midsize	109.37	93.50	(15.87)
23	Schulze Elementary-Middle School	Conventional	Detroit	City: Large	97.40	81.60	(15.80)
24	Lucile S. Patton Elem. School	Conventional	Roseville	Suburb: Large	110.87	95.27	(15.60)
25	North Ohio Elementary School	Conventional	Gaylord	Rural: Fringe	113.54	98.16	(15.38)
26	Thompson Middle School	Conventional	Saginaw	City: Small	98.27	82.94	(15.34)
27	Mecosta Elementary School	Conventional	Chippewa Hills	Rural: Remote	113.25	97.92	(15.33)
28	Bagley Elementary School	Conventional	Detroit	City: Large	96.15	81.34	(14.81)
29	Gardner Elementary School	Conventional	Detroit	City: Large	98.03	83.40	(14.63)
30	Ludington Magnet Middle School	Conventional	Detroit	City: Large	101.74	87.21	(14.53)
31	Seminole Academy	Conventional	Mt. Clemens	Suburb: Large	106.84	92.32	(14.52)
32	Priest Elementary-Middle School	Conventional	Detroit	City: Large	96.80	82.29	(14.51)
33	Hope Academy	Charter	Detroit	City: Large	102.96	88.51	(14.45)
34	Jessie Rouse School	Conventional	Saginaw	City: Small	104.23	90.01	(14.22)
35	Spain Elementary-Middle School	Conventional	Detroit	City: Large	100.29	86.21	(14.08)
36	Baraga School	Conventional	Baraga	Rural: Remote	100.96	87.12	(13.84)
37	Miller Elementary School	Conventional	Plymouth-Canton	Suburb: Large	111.98	98.30	(13.68)
38	Gompers Elementary-Middle School	Conventional	Detroit	City: Large	105.93	92.26	(13.67)
39	Davison Elementary-Middle School	Conventional	Detroit	City: Large	125.77	112.29	(13.48)
40	Michigan Technical Academy Middle School	Charter	Redford	City: Large	102.44	89.21	(13.22)
41	Academy for Business & Technology Elem.	Charter	Dearborn	Suburb: Large	112.02	99.15	(12.87)
42	Traverse Heights Elem. School	Conventional	Traverse City	Town: Remote	111.56	98.73	(12.83)
43	John R. King Academic & Performing Arts	Conventional	Detroit	City: Large	88.54	75.92	(12.62)
44	Hoover Elementary School	Conventional	Wayne-Westland	Suburb: Large	105.16	92.86	(12.30)
45	El-Hajj Malik El-Shabazz Academy	Charter	Lansing	City: Midsize	112.05	99.83	(12.22)
46	Crystal Lake Elementary School	Conventional	Benzie County	Rural: Remote	112.37	100.22	(12.15)
47	The Greenspire School	Charter	Traverse City	Town: Remote	99.03	86.91	(12.12)
48	Gordon Elementary School	Conventional	Marshall	Town: Fringe	109.57	97.53	(12.04)
49	Arts and Technology Academy of Pontiac	Charter	Pontiac	City: Small	100.44	88.43	(12.01)
50	Vandenberg Elementary School	Conventional	Southfield	City: Small	109.69	97.82	(11.87)
51	Huron Park Elementary School	Conventional	Roseville	Suburb: Large	100.87	89.13	(11.75)
52	Cooke Elementary School	Conventional	Detroit	City: Large	100.08	88.41	(11.67)
53	Nichols Elementary-Middle School	Conventional	Detroit	City: Large	101.57	90.02	(11.55)
54	Saginaw Preparatory Academy	Charter	Saginaw	Suburb: Midsize	112.81	101.32	(11.49)
55	Crescent Academy Middle School	Charter	Southfield	City: Small	99.68	88.20	(11.48)
56	Roseville Middle School	Conventional	Roseville	Suburb: Large	99.51	88.22	(11.29)
57	Ann J. Kellogg School	Conventional	Battle Creek	City: Small	95.50	84.38	(11.12)
58	Carpenter School	Conventional	Ann Arbor	City: Midsize	106.16	95.09	(11.08)
59	Clippert Academy	Selective	Detroit	City: Large	115.51	104.54	(10.97)
60	Central School	Conventional	Owosso	Town: Distant	104.74	93.89	(10.85)
61	International Academy of Flint (K-12)	Charter	Flint	City: Midsize	111.84	101.00	(10.84)
62	Joseph G. Steenland Elementary School	Conventional	Roseville	Suburb: Large	97.67	86.86	(10.80)
63	Pasteur Elementary School	Conventional	Detroit	City: Large	111.30	100.50	(10.80)
64	Harrington Elementary School	Conventional	Marshall (Albion)	Town: Fringe	112.63	102.04	(10.59)
65	Hayes Elementary School	Conventional	Livonia	City: Small	103.15	92.59	(10.55)
66	East Oakview Elementary School	Conventional	Northview	Suburb: Large	102.22	91.68	(10.54)
67	Northwestern Middle School	Conventional	Battle Creek	City: Small	91.52	80.98	(10.54)
68	Fountain Elementary School	Conventional	Roseville	Suburb: Large	104.10	93.61	(10.49)
69	Horizon Elementary School	Conventional	Holt	Suburb: Large	106.47	95.99	(10.48)
70	United Oaks Elementary School	Conventional	Hazel Park	Suburb: Large	100.66	90.19	(10.47)
71	Blair Elementary School	Conventional	Traverse City	Town: Remote	103.41	93.02	(10.39)
72	Frank E. Bartlett School	Conventional	South Lyon	Suburb: Midsize	110.49	100.16	(10.33)

100 Largest Declines Among Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	CAP Scores		
					2009-2013	2014-2016	Change
73	Lansing K-8 STEM Magnet Academy	Conventional	Lansing	City: Midsize	95.47	85.15	(10.31)
74	Eaton Academy	Charter	Detroit	Suburb: Large	95.55	85.27	(10.28)
75	Botsford Elementary School	Conventional	Clarenceville	City: Small	100.08	89.81	(10.27)
76	Benton Harbor Charter School Academy	Charter	Benton Harbor	City: Small	111.37	101.30	(10.07)
77	Highmeadow Common Campus School	Conventional	Farmington	City: Small	106.65	96.62	(10.03)
78	Midland Academy of Adv. & Creative Studies	Charter	Midland	City: Small	102.31	92.42	(9.89)
79	Clark, J.E. Preparatory Academy	Conventional	Detroit	City: Large	88.61	78.78	(9.82)
80	Burns Park Elementary School	Conventional	Ann Arbor	City: Midsize	115.28	105.47	(9.81)
81	K.I. Sawyer Elementary School	Conventional	Gwinn	Rural: Remote	112.30	102.68	(9.63)
82	Lincoln Elementary School	Conventional	Van Dyke	City: Midsize	97.92	88.34	(9.58)
83	Edward "Duke" Ellington @ Beckham	Conventional	Detroit	City: Large	95.26	85.74	(9.53)
84	KND Elementary	Conventional	Kaleva	Rural: Remote	106.15	96.75	(9.40)
85	Owendale-Gagetown Jr/Sr High School	Conventional	Owendale-Gagetown	Rural: Remote	102.94	93.61	(9.33)
86	Thorne Elementary School	Conventional	Westwood	Suburb: Large	101.01	91.90	(9.11)
87	Webster Elementary School	Conventional	Livonia	City: Small	128.41	119.31	(9.11)
88	Uriah H. Lawton School	Conventional	Ann Arbor	City: Midsize	112.53	103.45	(9.09)
89	Sampson Academy	Conventional	Detroit	City: Large	88.79	79.78	(9.01)
90	Manton Consolidated Middle School	Conventional	Manton	Rural: Distant	108.65	99.66	(8.99)
91	Turrill Elementary School	Conventional	Lapeer	Town: Fringe	102.62	93.71	(8.91)
92	Randolph Elementary School	Conventional	Livonia	City: Small	97.28	88.37	(8.91)
93	Marion High School	Conventional	Marion	Rural: Remote	104.76	95.87	(8.89)
94	Detroit Int. Academy for Young Women	Conventional	Detroit	City: Large	100.08	91.20	(8.88)
95	Blackwell Institute	Conventional	Detroit	City: Large	88.63	79.79	(8.85)
96	Greenfield Union Elementary-Middle School	Conventional	Detroit	City: Large	96.42	87.59	(8.84)
97	Sharon J. Hardy Elementary School	Conventional	South Lyon	Suburb: Midsize	107.76	98.93	(8.82)
98	Bad Axe High School	Conventional	Bad Axe	Town: Remote	104.89	96.08	(8.81)
99	Country Elementary School	Conventional	Pinckney	Rural: Fringe	95.57	86.76	(8.81)
100	Lake Ann Elementary School	Conventional	Benzie County	Rural: Remote	107.96	99.28	(8.68)

Sustained Performance

To measure sustained performance over a longer period of time, a simple method was used to pare down the list of eligible schools. Included were schools in the new report card with consistent building codes that yielded at least five unique yearly CAP Scores between 2009 and 2016. A total of 2,136 schools were eligible to be assessed for long-term performance. In order to determine the long-term CAP Score, each school's yearly CAP Scores were averaged together to generate an eight-year average score.

Sustained High Performance: Top 100 Public Elementary and Middle Schools

Iris Becker Elementary School, a district school in Dearborn, yielded the highest long-term performance rating. Two charter schools that have received the overall top CAP Score on different editions of this report card — Hamtramck Academy (2017) and Martin Luther King, Jr. Education Center Academy (2015) — both earned spots in the top five for sustained success. In all, 64 of the 100 schools with the highest levels of long-term performance also finished among the top 100 overall for the current report card. These schools appear in bold. Interestingly, DPSCD's Davison Elementary-Middle School ranked in the top 100 for both the current report card and for long-term performance, but also experienced the 39th largest CAP Score decline.

More than half of those recording the top 100 scores for long-term performance are schools located in cities. Suburban schools were more likely to appear in the top 100 for sustained performance (27) than

appeared in the top 100 on the current report card (24). Meanwhile, 17 charter schools made an appearance in the top 100. Fourteen of the 17 charters were opened between 1995 and 2005, highlighting some successful established alternatives to the traditional district-run system. All nine selective-admission schools in the sample appear on the top 100 list.

Sustained High Performance: Top 100 Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	Long-Term Average	Percent Rank	Grade
1	Iris Becker Elementary School	Conventional	Dearborn	City: Small	133.008	100.00%	A
2	Crestwood Accelerated Program	Selective	Crestwood	Suburb: Large	130.588	99.95%	A
3	Hamtramck Academy	Charter	Hamtramck	Suburb: Large	129.962	99.91%	A
4	Lowrey Middle School	Conventional	Dearborn	City: Small	127.958	99.86%	A
5	Martin Luther King, Jr. Ed. Ct. Acad.	Charter	Detroit	City: Large	125.124	99.81%	A
6	Webster Elementary School	Conventional	Livonia	City: Small	124.998	99.77%	A
7	Center for Economicology	Selective	Grand Rapids	City: Midsize	124.616	99.72%	A
8	Lowrey Elementary School	Conventional	Dearborn	City: Small	123.367	99.67%	A
9	North Godwin Elementary School	Conventional	Godwin Heights	City: Small	122.616	99.63%	A
10	Maples Elementary School	Conventional	Dearborn	City: Small	122.116	99.58%	A
11	Saginaw Arts and Sciences Academy	Selective	Saginaw	City: Small	121.672	99.53%	A
12	Glenwood Elementary	Conventional	Kentwood	Suburb: Large	120.851	99.49%	A
13	City Middle/High School	Selective	Grand Rapids	City: Midsize	120.761	99.44%	A
14	Davison Elementary-Middle School	Conventional	Detroit	City: Large	120.716	99.39%	A
15	Blandford Nature Center	Selective	Grand Rapids	City: Midsize	120.497	99.34%	A
16	Handley School	Selective	Saginaw	City: Small	119.472	99.30%	A
17	Geer Park Elementary	Conventional	Dearborn	City: Small	118.480	99.25%	A
18	Brown Elementary School	Conventional	Byron Center	Rural: Fringe	118.355	99.20%	A
19	Star International Academy	Charter	Dearborn Heights	Suburb: Large	117.693	99.16%	A
20	John Ball Park Zoo School	Selective	Grand Rapids	City: Midsize	117.582	99.11%	A
21	Angell School	Conventional	Ann Arbor	City: Midsize	117.424	99.06%	A
22	Reo School	Conventional	Lansing	City: Midsize	116.733	99.02%	A
23	Woodworth Middle School	Conventional	Dearborn	City: Small	116.479	98.97%	A
24	Martin Luther King Elem. School	Conventional	Ann Arbor	City: Midsize	116.318	98.92%	A
25	Southwood Elementary	Conventional	Kentwood	Suburb: Large	115.776	98.88%	A
26	Detroit Merit Charter Academy	Charter	Detroit	City: Large	115.544	98.83%	A
27	Bridge Academy West	Charter	Detroit	Suburb: Large	115.373	98.78%	A
28	West Godwin Elementary School	Conventional	Godwin Heights	City: Small	115.099	98.74%	A
29	Jamestown Elementary School	Conventional	Hudsonville	Suburb: Large	114.913	98.69%	A
30	Clague Middle School	Conventional	Ann Arbor	City: Midsize	114.769	98.64%	A
31	Bridge Academy East	Charter	Hamtramck	Suburb: Large	114.648	98.60%	A
32	Hemmeter Elementary School	Selective	Saginaw Twp.	Suburb: Midsize	114.293	98.55%	A
33	Franklin Elementary School	Conventional	Cadillac	Town: Remote	114.257	98.50%	A
34	Robbie Hall Parker School	Conventional	Clintondale	Suburb: Large	114.111	98.46%	A
35	Thirkell Elementary School	Conventional	Detroit	City: Large	114.000	98.41%	A
36	Salina Elementary P-3	Conventional	Dearborn	City: Small	113.886	98.36%	A
37	Dickinson East Elementary School	Conventional	Hamtramck	Suburb: Large	113.713	98.31%	A
38	Rose City School	Conventional	West Branch-Rose	Rural: Remote	113.696	98.27%	A
39	William Ford Elementary School	Conventional	Dearborn	City: Small	113.600	98.22%	A
40	Bemis Elementary School	Conventional	Troy	City: Small	113.451	98.17%	A
41	Rankin Elementary School	Conventional	Carman-Ainsworth	Suburb: Large	113.426	98.13%	A
42	Lakeshore Elementary School	Conventional	West Ottawa	Suburb: Small	113.422	98.08%	A
43	Miller Elementary School	Conventional	Dearborn	City: Small	113.421	98.03%	A
44	Wright, Charles School	Conventional	Detroit	City: Large	113.336	97.99%	A
45	Oakman Elementary School	Conventional	Dearborn	City: Small	113.311	97.94%	A
46	Onaway Elementary School	Conventional	Onaway	Rural: Remote	113.194	97.89%	A
47	Detroit Edison PSA	Charter	Detroit	City: Large	112.857	97.85%	A
48	Grandville Central Elementary School	Conventional	Grandville	Suburb: Large	112.828	97.80%	A

Sustained High Performance: Top 100 Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	Long-Term Average	Percent Rank	Grade
49	Berrien Springs Middle School	Conventional	Berrien Springs	Town: Fringe	112.818	97.75%	A
50	Riverside Academy	Charter	Dearborn	City: Small	112.802	97.71%	A
51	Discovery Elementary	Conventional	Kentwood	Suburb: Large	112.666	97.66%	A
52	Townline Elementary	Conventional	Kentwood	Suburb: Large	112.664	97.61%	A
53	Lake Hills Elementary School	Conventional	Grand Haven	Suburb: Midsize	112.624	97.57%	A
54	Covert Middle School	Conventional	Covert	Rural: Distant	112.459	97.52%	A
55	Boulan Park Middle School	Conventional	Troy	City: Small	112.432	97.47%	A
56	Kenwood Elementary School	Conventional	Cadillac	Town: Remote	112.334	97.43%	A
57	Lybrook Elementary School	Conventional	Eau Claire	Rural: Fringe	112.111	97.38%	A
58	Frankfort Elementary School	Conventional	Frankfort-Elberta	Rural: Remote	112.055	97.33%	A
59	Harms Elementary School	Conventional	Detroit	City: Large	112.036	97.28%	A
60	Pine Creek Elementary School	Conventional	West Ottawa	Suburb: Small	111.878	97.24%	A
61	Grayling Middle School	Conventional	Crawford Ausable	Town: Remote	111.871	97.19%	A
62	Kinloch Elementary School	Conventional	Crestwood	Suburb: Large	111.858	97.14%	A
63	Whittemore-Prescott Area Elementary	Conventional	Whittemore-Prescott	Rural: Remote	111.802	97.10%	A
64	John Allen School	Conventional	Ann Arbor	City: Midsize	111.791	97.05%	A
65	Brookwood Elementary	Conventional	Kentwood	Suburb: Large	111.782	97.00%	A
66	Unis Middle School	Conventional	Dearborn	City: Small	111.713	96.96%	A
67	Covert Elementary School	Conventional	Covert	Rural: Distant	111.707	96.91%	A
68	Weidman Elementary School	Conventional	Chippewa Hills	Rural: Remote	111.618	96.86%	A
69	Burns Park Elementary School	Conventional	Ann Arbor	City: Midsize	111.601	96.82%	A
70	Pullman Elementary School	Conventional	Bloomingtondale	Rural: Distant	111.600	96.77%	A
71	Tappan Middle School	Conventional	Ann Arbor	City: Midsize	111.560	96.72%	A
72	Central Academy	Charter	Ann Arbor	City: Midsize	111.531	96.68%	A
73	Madison Middle School	Conventional	Madison (Lenawee)	Town: Distant	111.497	96.63%	A
74	Ross-Hill Academy - Elementary	Charter	Detroit	City: Large	111.468	96.58%	A
75	Clippert Academy	Selective	Detroit	City: Large	111.400	96.54%	A
76	Godwin Heights Middle School	Conventional	Godwin Heights	City: Small	111.352	96.49%	A
77	Eagle Crest Charter Academy	Charter	Holland	Suburb: Small	111.201	96.44%	A
78	Highview Elementary School	Conventional	Crestwood	Suburb: Large	111.187	96.40%	A
79	Andrews Elementary School	Conventional	Three Rivers	Town: Fringe	111.118	96.35%	A
80	Sister Lakes Elementary School	Conventional	Dowagiac Union	Town: Fringe	111.110	96.30%	A
81	Houghton Lake Middle School	Conventional	Houghton Lake	Rural: Fringe	111.056	96.25%	A
82	Chippewa Middle School	Conventional	Okemos	Suburb: Large	111.054	96.21%	A
83	Riverside Academy - West Campus	Charter	Dearborn	City: Small	110.961	96.16%	A
84	Fairview School	Conventional	Fairview	Rural: Remote	110.919	96.11%	A
85	The Dearborn Academy	Charter	Dearborn	City: Small	110.758	96.07%	A
86	Stout Middle School	Conventional	Dearborn	City: Small	110.753	96.02%	A
87	Three Oaks Public School Academy	Charter	Muskegon	City: Small	110.706	95.97%	A
88	Forest View Elementary School	Conventional	Cadillac	Town: Remote	110.680	95.93%	A
89	Musson Elementary School	Conventional	Rochester	Suburb: Large	110.644	95.88%	A
90	Eberwhite School	Conventional	Ann Arbor	City: Midsize	110.599	95.83%	A
91	Salina Intermediate 4-8	Conventional	Dearborn	City: Small	110.585	95.79%	A
92	Universal Learning Academy	Charter	Westland	Suburb: Large	110.585	95.74%	A
93	McDonald Elementary School	Conventional	Dearborn	City: Small	110.578	95.69%	A
94	University Hills Elem. School	Conventional	Rochester	Suburb: Large	110.544	95.65%	A
95	Henry Ford Elementary School	Conventional	Dearborn	City: Small	110.541	95.60%	A
96	Deckerville Elementary School	Conventional	Deckerville	Rural: Distant	110.410	95.55%	A
97	Cesar Chavez Academy Intermediate	Charter	Detroit	City: Large	110.392	95.51%	A
98	Slauson Middle School	Conventional	Ann Arbor	City: Midsize	110.352	95.46%	A
99	City School	Conventional	Grand Blanc	Suburb: Large	110.232	95.41%	A
100	Cesar Chavez Middle School	Charter	Detroit	City: Large	110.180	95.37%	A

Sustained Low Performance: Bottom 100 Public Elementary and Middle Schools

Highlighting the state's ongoing struggles in urban education, 64 of the 100 lowest long-term performers are located in cities. Thirty-seven of the lowest 100 and 12 of the lowest 20 are specifically run by the Detroit Public Schools Community District, including four schools that used to be managed by the Education Achievement Authority. A pair of rural charter schools can be found in the bottom 20 as well.

Altogether, one in eight city schools in the long-term sample finished in the bottom 100, compared to roughly one in 40 rural and suburban schools, and less than 1 percent of town schools. Notably, charter schools in urban areas are less likely to struggle than their rural, suburban and town-based peers. Of the 20 charter schools among the 100 lowest sustained performance list, only 40 percent were located in cities. Fifty-five percent of charters in the total sample are located in an urban setting.

Similar to the top 100 list, 57 of the bottom 100 in long-term performance recur from the latest overall bottom 100. These schools appear in bold.

Sustained Low Performance: Bottom 100 Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	Long-Term Average	Percent Rank	Grade
1	Whitmer Human Resource Center	Conventional	Pontiac	City: Small	79.385	0.05%	F
2	Marquette Elementary-Middle School	Conventional	Detroit	City: Large	79.678	0.09%	F
3	Henderson Academy	Conventional	Detroit	City: Large	79.800	0.14%	F
4	Burns Elementary-Middle School	Conventional	Detroit / EAA	City: Large	80.293	0.19%	F
5	Hamilton Academy	Charter*	Detroit	City: Large	80.338	0.23%	F
6	Brenda Scott Acad. for Theatre Arts	Conventional	Detroit / EAA	City: Large	80.625	0.28%	F
7	STEAM Academy at MLK	Conventional	Benton Harbor	City: Small	81.463	0.33%	F
8	Mackenzie Elementary-Middle School	Conventional	Detroit	City: Large	81.622	0.37%	F
9	Mary McLeod Bethune Elem.-Middle	Conventional	Detroit / EAA	City: Large	81.748	0.42%	F
10	J.W. Sexton High School	Conventional	Lansing	City: Midsize	81.961	0.47%	F
11	Law Elementary School	Conventional	Detroit / EAA	City: Large	82.185	0.51%	F
12	Mason Elementary School	Conventional	Detroit	City: Large	82.528	0.56%	F
13	Durfee Elementary-Middle School	Conventional	Detroit	City: Large	83.005	0.61%	F
14	Leelanau Montessori PSA	Charter	Suttons Bay	Rural: Distant	83.061	0.66%	F
15	Flat River Academy-Mid./High School	Charter	Greenville	Rural: Fringe	83.171	0.70%	F
16	Noble Elementary-Middle School	Conventional	Detroit	City: Large	83.545	0.75%	F
17	John R. King Acad. & Performing Arts	Conventional	Detroit	City: Large	83.806	0.80%	F
18	Gardner Academy	Conventional	Lansing	City: Midsize	84.426	0.84%	F
19	Taylor International Academy	Charter	Southfield	City: Small	84.580	0.89%	F
20	Clark, J.E. Preparatory Academy	Conventional	Detroit	City: Large	84.923	0.94%	F
21	Fisher Magnet Upper Academy	Conventional	Detroit	City: Large	85.073	0.98%	F
22	Young, Coleman A. Elementary	Conventional	Detroit	City: Large	85.080	1.03%	F
23	Blackwell Institute	Conventional	Detroit	City: Large	85.315	1.08%	F
24	Sampson Academy	Conventional	Detroit	City: Large	85.408	1.12%	F
25	Trix Performance Academy	Charter*	Detroit	City: Large	85.608	1.17%	F
26	Douglass Academy for Young Men	Conventional	Detroit	City: Large	85.643	1.22%	F
27	Nolan Elementary-Middle School	Conventional	Detroit / EAA	City: Large	85.692	1.26%	F
28	Dossin Elementary-Middle School	Conventional	Detroit	City: Large	86.482	1.31%	F
29	Earhart Elementary-Middle School	Conventional	Detroit	City: Large	86.546	1.36%	F
30	Faxon Language Immersion Academy	Charter	Farmington Hills	City: Small	86.611	1.40%	F
31	Kensington Woods Schools	Charter	Lakeland	Suburb: Midsize	86.765	1.45%	F
32	Mid Peninsula School	Conventional	Mid Peninsula	Rural: Distant	87.029	1.50%	F
33	Kelly Middle School	Conventional	East Detroit	Suburb: Large	87.347	1.54%	F
34	Barber Elementary School	Charter*	Highland Park	Suburb: Large	87.437	1.59%	F
35	Flat River Academy - Elementary	Charter	Greenville	Rural: Fringe	87.468	1.64%	F
36	Northwestern Middle School	Conventional	Battle Creek	City: Small	87.565	1.69%	F

Sustained Low Performance: Bottom 100 Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	Long-Term Average	Percent Rank	Grade
37	Brewer Elementary-Middle School	Conventional	Detroit	City: Large	87.803	1.73%	F
38	Pontiac Middle School	Conventional	Pontiac	City: Small	87.848	1.78%	F
39	Herrington School	Conventional	Pontiac	City: Small	87.854	1.83%	F
40	Holmes, A.L. Elementary-Middle School	Conventional	Detroit	City: Large	88.008	1.87%	F
41	Owen Elementary School	Conventional	Pontiac	City: Small	88.646	1.92%	F
42	Neinas Dual Language Learning Acad.	Conventional	Detroit	City: Large	88.707	1.97%	F
43	Gros Cap School	Conventional	Moran Twp.	Rural: Distant	88.730	2.01%	F
44	Murphy Performance Academy	Charter*	Detroit	City: Large	88.733	2.06%	F
45	Eastern High School	Conventional	Lansing	City: Midsize	88.771	2.11%	F
46	Glenn W. Levey Middle School	Conventional	Southfield	City: Small	88.842	2.15%	F
47	Carleton Elementary School	Conventional	Detroit	City: Large	88.850	2.20%	F
48	George Long Elementary School	Conventional	Grass Lake	Rural: Fringe	88.954	2.25%	F
49	Mohawk Elementary School	Conventional	Chippewa Valley	Suburb: Large	88.971	2.29%	F
50	Erie Elementary School	Conventional	Chippewa Valley	Suburb: Large	89.003	2.34%	F
51	Palmer Park Preparatory Academy	Conventional	Detroit	City: Large	89.015	2.39%	F
52	Pittsford Area Elem. School	Conventional	Pittsford	Rural: Distant	89.063	2.43%	F
53	Multicultural Academy	Charter	Ann Arbor	Suburb: Large	89.131	2.48%	F
54	Ecorse Community High School	Conventional	Ecorse	Suburb: Large	89.383	2.53%	F
55	Will L. Lee School	Conventional	Richmond	Town: Fringe	89.390	2.57%	F
56	Carstens Elementary-Middle School	Conventional	Detroit	City: Large	89.474	2.62%	F
57	American International Academy	Charter	Westland	Suburb: Large	89.533	2.67%	F
58	Academy of The Americas	Conventional	Detroit	City: Large	89.608	2.72%	F
59	Carver Elementary-Middle School	Conventional	Detroit	City: Large	89.628	2.76%	F
60	Potterville Elementary School	Conventional	Potterville	Rural: Fringe	89.819	2.81%	F
61	Garden City Middle School	Conventional	Garden City	Suburb: Large	89.935	2.86%	F
62	Bow Elementary-Middle School	Conventional	Detroit	City: Large	90.004	2.90%	F
63	Dickinson School	Conventional	Grand Rapids	City: Midsize	90.043	2.95%	F
64	Will Carleton Charter School Academy†	Charter	Hillsdale	Rural: Fringe	90.161	3.00%	F
65	Stewart Performance Academy	Charter*	Detroit	City: Large	90.162	3.04%	F
66	Lansing K-8 STEM Magnet Academy	Conventional	Lansing	City: Midsize	90.311	3.09%	F
67	Munger Elementary-Middle School	Conventional	Detroit	City: Large	90.321	3.14%	F
68	Creative Technologies Academy	Charter	Cedar Springs	Town: Fringe	90.354	3.18%	F
69	Robeson Malcolm X Academy	Conventional	Detroit	City: Large	90.422	3.23%	F
70	Attwood School	Conventional	Lansing	City: Midsize	90.451	3.28%	F
71	American Montessori Acad. Upper Elem.	Charter	Redford	City: Small	90.570	3.32%	F
72	Bagley Elementary School	Conventional	Detroit	City: Large	90.598	3.37%	F
73	Oak Park Preparatory Academy	Conventional	Oak Park	Suburb: Large	90.633	3.42%	F
74	Patrick Henry Middle School	Conventional	Woodhaven-Brownstown	Suburb: Large	90.687	3.46%	F
75	Alice M. Birney K-8 School	Conventional	Southfield	City: Small	90.836	3.51%	F
76	Daly School	Conventional	Westwood	Suburb: Large	90.840	3.56%	F
77	Ann Visger K-5 Preparatory Academy	Conventional	River Rouge	Suburb: Large	90.923	3.60%	F
78	New Bedford Academy	Charter	Lambertville	Suburb: Large	91.033	3.65%	F
79	Pulaski Elementary-Middle School	Conventional	Detroit	City: Large	91.043	3.70%	F
80	Pleasantview Elementary School	Conventional	East Detroit	Suburb: Large	91.127	3.75%	F
81	Beech Elementary	Conventional	Redford	Suburb: Large	91.157	3.79%	F
82	Pittsford Area High School	Conventional	Pittsford	Rural: Distant	91.194	3.84%	F
83	Woodland School	Charter	Traverse City	Rural: Distant	91.199	3.89%	F
84	Dryden High School	Conventional	Dryden	Rural: Distant	91.210	3.93%	F
85	University Yes Academy	Charter	Detroit	City: Large	91.239	3.98%	F
86	Ann J. Kellogg School	Conventional	Battle Creek	City: Small	91.329	4.03%	F
87	Priest Elementary-Middle School	Conventional	Detroit	City: Large	91.362	4.07%	F
88	Hutchinson Elementary-Middle School	Conventional	Detroit	City: Large	91.366	4.12%	F
89	Schulze Elementary-Middle School	Conventional	Detroit	City: Large	91.476	4.17%	F
90	Edgemont Elementary School	Conventional	Van Buren	Suburb: Large	91.558	4.21%	F

Sustained Low Performance: Bottom 100 Public Elementary and Middle Schools							
Table Rank	School Name	School Type	District or Municipality	Locale	Long-Term Average	Percent Rank	Grade
91	Jessie Loomis School	Conventional	Saginaw	City: Small	91.629	4.26%	F
92	Edward "Duke" Ellington @ Beckham	Conventional	Detroit	City: Large	91.692	4.31%	F
93	Eaton Academy	Charter	Detroit	Suburb: Large	91.694	4.35%	F
94	Owen Intermediate School	Conventional	Van Buren	Suburb: Large	91.733	4.40%	F
95	Westwood Middle School	Conventional	Grand Rapids	City: Midsize	91.794	4.45%	F
96	Wilkerson Elementary School	Conventional	Warren	City: Midsize	91.810	4.49%	F
97	Thomas Jefferson Elem. School	Conventional	South Redford	Suburb: Large	91.826	4.54%	F
98	Litchfield High School	Conventional	Litchfield	Rural: Distant	91.884	4.59%	F
99	Wood Creek Elementary School	Conventional	Farmington	City: Small	91.928	4.63%	F
100	Lindemann Elementary School	Conventional	Allen Park	Suburb: Large	91.941	4.68%	F

* Denotes schools that changed from district to charter management, 2009-2016

† Will Carleton Charter School Academy reports that it does not participate in the National School Lunch Program and the number of students it reports to the state who are eligible for a free lunch based on their household income may not be an accurate depiction of the socioeconomic status of its student body. This would lower the school's CAP Score as a result.

About the Authors

Ben DeGrow is the Mackinac Center’s education policy director. DeGrow joined the Center in 2015 after a long stint at Colorado’s Independence Institute, where he provided expert analysis on school choice, school finance, collective bargaining and education employment policies. He authored numerous policy reports and op-eds for various newspapers and other publications, and regularly appeared on radio and television and before legislative committees.

DeGrow graduated summa cum laude with a bachelor’s degree in history from Hillsdale College, and went on to receive a master’s degree in history from the Pennsylvania State University. Ben’s experiences in the classroom include service as a university graduate assistant and as a substitute teacher in Michigan public schools. He also spent nearly a year on the editorial staff of the Hillsdale Daily News.

Ronald Klingler is a data science and information technology consultant. He graduated cum laude in 2015 with a bachelor’s degree in mathematics and economics and completed his master’s degree in economics in 2016, both at Central Michigan University.

Appendix A: Calculating CAP Scores and Letter Grades *

Calculating CAP Scores

The idea behind CAP Scores is to rate a school's performance on standardized tests while controlling for the economic status of students. The data come from the new M-STEP tests, administered in school years 2014, 2015 and 2016.

The first step in deriving the scores was to create an adjusted performance score for each test, by grade, subject and year. To do this, the scale scores of each test were standardized to have a statewide average of 100, and a variance of 15. The scores for each administered test were then averaged together to create an adjusted performance score for each grade:

$$AdjustedPerformance = 100 + 15 \left[\frac{(TestAvg. - StateAvg.)}{S.D. of StateAvg.} \right]$$

The adjusted performance scores for each test are then compared to a predicted performance. The predicted performance is the score one would expect given the economic status of the students taking the tests. To get this predicted performance, the adjusted performance score for each year is modeled against the percentage of students being tested which qualify for free lunch, and then the regression equation is used to generate the predicted performance. The regression equation is as follows:

$$Adj_{Perf}_i = \beta_0 + \beta_1(FREE)_i + \mu_i$$

where Adj_{Perf}_i is the average test score at school i ;

β_0 is a constant and is the predicted score of a school without any students eligible for a free lunch;

β_1 is the estimated impact of the student population's free lunch eligibility rate on a school's average score;

$FREE_i$ is the number of students eligible for free lunch divided by the total student population;

and μ_i is the error term.

A unique equation is generated for each test, and that equation produces a predicted performance for each test, school and year. The ratio of the actual and predicted score, multiplied by 100, produces the final CAP Score for that test.

For example, the 2016 M-STEP third-grade English language arts scale score for Gallimore Elementary School in the Plymouth-Canton School District was 1333.9. The state average for that test is 1293.612, with a standard deviation of 13.004. Using the above formula, we get $100 + 15(1333.9 - 1293.612) / 13.004 = 146.472$ as an adjusted score.

* Some of the language in this section is copied verbatim from text previously published by the Mackinac Center.

Gallimore's free lunch percentage is 1.67 percent. The regression equation for the 2016 third-grade ELA is $Adj = 120.1059 - 42.9781(\text{Free Lunch})$, yielding a predicted performance score of 119.39. The predicted CAP Score for a school with no free lunch students is 120.1059, while 42.981 represents the factor associated with a declining score due to an increasing free lunch student population. Multiplying 100 by the ratio of the adjusted score and the predicted ($146.472/119.39$) yields a CAP Score of 122.684 for Gallimore's 2016 ELA test.

All subject scores for each grade are averaged together, and then all these average grade-level scores are averaged to produce the CAP Score for a given school in a given year. The overall CAP Score for a school is the average yearly score from 2014 to 2016. Averaging together these scores over multiple years provides a general picture of how well the school is performing and works to smooth out year-to-year variation.

Letter grades based on CAP Scores are issued on a curve. The top 10 percent of schools received an A, the next 20 percent a B, the middle 40 percent a C, the next 20 percent a D and the bottom 10 percent an F. This distribution is consistent with all prior editions of the Context and Performance Report Card.

The pre-2014 yearly CAP Score data used to generate information on improvements and declines, as well as long-term performance trends, was determined by CAP Scores created in prior reports. The same process of averaging by subject test and grade and then by school was used. The exception to this is the 2013 data, which were recalculated from the ground up using raw MEAP test results and free lunch data.

Appendix B: Locale Codes^{*}

The locale codes used in this paper come directly from the National Center for Education Statistics. Locale codes represent how far away a particular school is from an urbanized area, and are based on a school's physical street address.[†] According to the NCES, the geographic information used to create locale codes is updated for about one-third of communities every year.

Definitions of each locale code category are below, taken directly from the NCES:[‡]

Locale Code	Definition
City: Large	Territory inside an urbanized area and inside a principal city with population of 250,000 or more.
City: Midsize	Territory inside an urbanized area and inside a principal city with population less than 250,000 and greater than or equal to 100,000
City: Small	Territory inside an urbanized area and inside a principal city with population less than 100,000.
Suburb: Large	Territory outside a principal city and inside an urbanized area with population of 250,000 or more.
Suburb: Midsize	Territory outside a principal city and inside an urbanized area with population less than 250,000 and greater than or equal to 100,000.
Suburb: Small	Territory outside a principal city and inside an urbanized area with population less than 100,000.
Town: Fringe	Territory inside an urban cluster that is less than or equal to 10 miles from an urbanized area.
Town: Distant	Territory inside an urban cluster that is more than 10 miles and less than or equal to 35 miles from an urbanized area.
Town: Remote	Territory inside an urban cluster that is more than 35 miles from an urbanized area.
Rural: Fringe	Census-defined rural territory that is less than or equal to 5 miles from an urbanized area, as well as rural territory that is less than or equal to 2.5 miles from an urban cluster.
Rural: Distant	Census-defined rural territory that is more than 5 miles but less than or equal to 25 miles from an urbanized area, as well as rural territory that is more than 2.5 miles but less than or equal to 10 miles from an urban cluster
Rural: Remote	Census-defined rural territory that is more than 25 miles from an urbanized area and is also more than 10 miles from an urban cluster.

^{*} Some of the language used in this section is verbatim to text in previously published Mackinac Center studies.

[†] "Identification of Rural Locales" (U.S. Department of Education), <http://perma.cc/DS9B-6D98>.

[‡] Ibid.

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