THE MICHIGAN CONTEXT AND PERFORMANCE REPORT CARD

— PUBLIC ELEMENTARY & MIDDLE SCHOOLS, 2019 —

By Ben DeGrow & Ronald Klingler

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The Mackinac Center for Public Policy

The Michigan Context and Performance Report Card: Public Elementary and Middle Schools, 2019

By Ben DeGrow and Ronald Klingler

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Contents

Introduction

This publication marks the fourth edition of the Context and Performance Report Card for Michigan elementary and middle schools, published every two years since 2013.[*] The goal is to compare Michigan schools' relative performance by factoring in the role student poverty plays in affecting academic achievement. While this report card provides a valid approach to assessing school quality, it should not be seen as the ultimate or exclusive dimension for making such judgments.

The CAP Report Card uses multiple years of student achievement data so that a single year's results do not significantly influence a school's grade. The past two editions each relied on three years of academic performance data — based exclusively on either the old Michigan Educational Assessment Program, or MEAP, or the current Michigan Student Test of Educational Progress, or M-STEP. The 2019 report card relies on four full years of data, making use of the fact that students consistently took the same M-STEP tests over the period covered for this analysis.

The CAP Report Card stands apart from standard measures of academic performance. It controls for the differences at each school in students' socioeconomic status. This provides a more accurate appraisal of a school's performance than simply comparing raw test scores, because student poverty rates are strongly associated with academic achievement — the less affluent the student body, the lower the test scores, generally. Without this needed adjustment, school report cards could overrate the effectiveness of schools serving relatively affluent student populations or underrate the effectiveness of schools serving large groups of low-income students.

CAP Report Card scores are relative; they are based entirely on comparing schools to each other. The report card does not create a benchmark for a "good school." A high CAP Score means only that a school performs well compared to its peers. The data from standardized tests used in this report card is but one measure to assess school performance; there are many others that parents and taxpayers may care about.

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[*]   Some language contained in this report may have been used in previous Mackinac Center publications.

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 actually performed on state standardized tests relative to their predicted performance.

Identifying Students' Socioeconomic Status

This report measures student socioeconomic status by 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. In 2019, a student from a family of four with an annual household income of $33,475 or less would qualify for a federally subsidized free lunch.[*]

Of eight different data points covering student demographics and other characteristics, none associated nearly as much with performance on state standardized tests as did free lunch rates (see Appendix B). Thus, only the percentage of students eligible for a free lunch was included in the statistical analysis in order to keep the model both as simple and consistent as possible.

This report uses grade-level data on free lunch status to generate an expected score for each subject test at each grade level. A school's average scale score in fifth-grade mathematics was regressed against the share of free lunch students counted in the school's fifth-grade student population, not the share of the student body as a whole. Though imperfect, these grade-level measures of student poverty are the best proxy available to researchers for determining the socioeconomic status of student test-takers.

Measuring Schools' Average Academic Achievement

The four most recent years of Michigan standardized test results for grades three through eight — assessing student academic performance from 2016 through 2019 — were used to generate this publication's CAP Scores. A school's total CAP Score is an average of the CAP Scores earned 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.

Through 2018, the M-STEP program tested Michigan students in both mathematics and English language arts in all grades, science in grades four and seven, and social studies in grades five and eight. But in 2019, state officials changed the official eighth grade math and ELA assessments from M-STEP to the College Board's Preliminary Scholastic Aptitude Test, or PSAT.[†] M-STEP remains in place for all tests in grades three through seven, as well as for eighth grade social studies.

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[*] Federal Register, Vol. 84, No. 54 (U.S. Government Printing Office, March 20, 2019), 10297, https://perma.cc/MZ2Y-SDAD.

[†] For a demonstration of the validity of using both M-STEP and PSAT scores over different years to measure the academic achievement of eighth-grade students, see "Appendix C: Incorporating PSAT Tests into CAP Scores."

A school's overall CAP Score incorporates as many as 60 test scores over the four-year period. Depending on the grade levels of students served in the school, up to 16 different individual test results may factor into the 2016 and 2017 CAP Scores and up to 14 results for 2018 and 2019. This is because state officials decided to withhold the release of the fourth- and seventh-grade science test results for the past two years "because they say the exam is a sample test that does not yet measure student proficiency."[*]

Graphic 1: M-STEP Tests Used for CAP Scores

Year	ELA	Mathematics	Science	Social Studies	Total
2016	Grades 3-8	Grades 3-8	Grades 4, 7	Grades 5, 8	16
2017	Grades 3-8	Grades 3-8	Grades 4, 7	Grades 5, 8	16
2018	Grades 3-8	Grades 3-8	N/A	Grades 5, 8	14
2019	Grades 3-7	Grades 3-7	N/A	Grades 5, 8	14

Schools do not need to have a state-reported score for all 60 tests to qualify for the report card. Many schools do not serve students in all grades three through eight. For a given test in a given year, the state may not report an average scale score if a school has fewer than the minimum number of student test-takers. In order to be included in the sample, a school must have a minimum of two average scale scores in at least three of the tested years and have been open to administer state tests in the spring of 2019. While the number of tests per school may have varied, 98% of schools had testing results available from all four years. Schools designated as "alternative education" schools, or those that primarily and exclusively serve students with special needs, were left out of the sample.

To generate a score, subject tests were first normalized for each grade and subject test in each year. The CAP Scores for each individual test in a given year were averaged to determine grade-level scores, which each were averaged together to create a yearly CAP Score. The three or four individual yearly CAP Scores were then averaged together to generate a school's overall CAP Score.

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 less than 100 means a school achieved below expectations. See Appendix A for additional details about how the scores were determined.

Classifying Schools

A total of 2,203 Michigan public elementary and middle school schools received an overall CAP Score for this edition. The number is down slightly from the previous report card. However, the breakdown by school type remains very similar. Of the cohort, 88% are conventional schools operated by 511 of the state's 537 geographically based school districts. These schools are the default assignments for students, based on where they reside, who enroll in public school.

Most of the remainder, 11.5%, are charter public 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

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[*] Jennifer Chambers, "Michigan to Withhold Science Test Scores for Two Years" (*The Detroit News*, Aug. 22, 2018), https://perma.cc/Z693-ZVRG.

available slots. The list is rounded out by 10 district-operated schools with selective admission policies that require students to demonstrate a required level of academic performance in order to enroll.

Graphic 2: Types of Public Elementary and Middle Schools

School Type	Number of Schools	Percentage of Schools
Conventional	1,939	88.02%
Charter	254	11.53%
Selective	10	0.45%
Total	2,203	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 D: Locale Codes."

Continuing the trend from previous report cards, a greater share of schools in the cohort can be found in urban or suburban locales — more than 64%. In particular, suburban schools represented 35% of the sample in the original 2013 CAP Report Card, compared to nearly 40% today. The proportion of rural schools receiving grades has dropped from 29% to 23% over the same period.

Graphic 3: Public Elementary and Middle Schools by Locale

Locale	Number of schools	Percentage of Total
City: Large	134	6.08%
City: Midsize	143	6.49%
City: Small	264	11.98%
City: Total	541	24.56%
Suburb: Large	687	31.18%
Suburb: Midsize	102	4.63%
Suburb: Small	86	3.90%
Suburb: Total	875	39.72%
Town: Fringe	97	4.40%
Town: Distant	89	4.04%
Town: Remote	86	3.90%
Town: Total	272	12.35%
Rural: Fringe	175	7.94%
Rural: Distant	238	10.80%
Rural: Remote	102	4.63%
Rural: Total	515	23.38%

Source: Authors calculations using NCES and MDE data.

2019 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 2,203 ranked schools in this publication; however, interested readers can find an online database of all schools at http://www.mackinac.org/CAP2019.

Top 100 Public Elementary and Middle Schools

Michigan's third-largest school district, Dearborn Public Schools, once again distinguished itself on the CAP Report Card. For the second straight edition, the district had five of the state's top 10 scoring schools, and more than half of its schools — 17 of 29 — finished in the top 100. By comparison, the state's only two larger districts — Detroit and Utica — each placed only one school on this list. Behind only Dearborn, West Michigan's Kentwood Public Schools landed four out of its 13 schools in the top 100. A pair of smaller districts along the shores of Lake Michigan each saw both of their schools finish on this list: Covert Public Schools and Frankfort-Elberta Area Schools. No other district with multiple schools analyzed placed them all in the top 100.

For the second consecutive time, Hamtramck Academy earned the top CAP Score in the state. The Detroit-area charter school has earned a place among the highest 1% in the rankings on all four editions. In all, 26 of this year's top 100 CAP Scores went to public charter schools, up from 23 in 2017. More than twice as many charters achieve one of the top rankings as would be expected based on their share of the cohort. This success is driven primarily by charters located in the city of Detroit, which make up 2.8% of all schools but record 12 of the top 100 scores.

Schools that selectively admit students understandably are overrepresented, with nine of the 10 in the sample making the top 100. This represents a slight improvement back toward an earlier norm. The lowest any selective school finished on earlier versions of this report card was 38th, until three selective schools landed outside the top 100 in 2017.

Following the pattern from earlier reports, a true majority of the top 100 schools (51) are located in cities, even though city schools as a group have the lowest average CAP Score. This strongly suggests urban areas have a wide variation in school performance. On the other hand, schools in towns have the highest average CAP Score but only four cracked the top 100, despite making up nearly one-eighth of the sample.

						Overall CAP Values		
Table Rank	School Name	School Type	District or Municipality	Locale	# of Scores	Score	Percent Rank	Grade
1	Hamtramck Academy	Charter	Hamtramck	Suburb: Large	60	136.29	100.00%	A
2	Iris Becker Elementary School	Conventional	Dearborn	City: Small	30	134.78	99.95%	A
3	Dearborn 6/7 STEM School	Conventional	Dearborn	City: Small	27	133.40	99.91%	A
4	Maples Elementary School	Conventional	Dearborn	City: Small	30	129.93	99.86%	A
5	Crestwood Accelerated Program	Selective	Crestwood	Suburb: Large	18	126.71	99.82%	A
6	Lowrey Middle School	Conventional	Dearborn	City: Small	30	126.69	99.77%	A
7	Lowrey Elementary School	Conventional	Dearborn	City: Small	30	126.40	99.73%	A
8	Middle School Math/Science Tech.	Selective	Warren	City: Midsize	22	126.26	99.68%	A
9	Rankin Elementary School	Conventional	Carman-Ainsworth	Suburb: Large	30	124.54	99.64%	A
10	Brown Elementary School	Conventional	Byron Center	Rural: Fringe	18	123.97	99.59%	A
11	Handley School	Selective	Saginaw	City: Small	30	123.91	99.55%	A
12	Hanley International Academy	Charter	Hamtramck	Suburb: Large	60	123.63	99.50%	A
13	New Paradigm College Prep	Charter	Detroit	City: Large	14	123.52	99.46%	A
14	West Godwin Elementary School	Conventional	Godwin Heights	City: Small	18	122.54	99.41%	A
15	Lake Hills Elementary School	Conventional	Grand Haven	Suburb: Midsize	18	121.32	99.36%	A
16	Bridge Academy-Elementary	Charter	Hamtramck	Suburb: Large	30	120.93	99.32%	A
17	Center for Economicology	Selective	Grand Rapids	City: Midsize	8	120.81	99.27%	A
18	C.K. Schickler Elementary School	Conventional	Lapeer	Town: Fringe	30	120.80	99.23%	A
19	Star International Academy	Charter	Dearborn Heights	Suburb: Large	60	120.38	99.18%	A
20	Detroit Edison Public School Academy	Charter	Detroit	City: Large	60	120.37	99.14%	A
21	Muskegon Montessori Aca. for E.C.	Charter	Norton Shores	Suburb: Midsize	25	120.22	99.09%	A
22	Bridge Academy West	Charter	Detroit	Suburb: Large	30	120.15	99.05%	A
23	Gallimore Elementary School	Conventional	Plymouth-Canton	Suburb: Large	30	120.01	99.00%	A
24	Oakman Elementary School	Conventional	Dearborn	City: Small	30	119.97	98.96%	A
25	Webster Elementary School	Conventional	Livonia	City: Small	38	119.85	98.91%	A
26	Oakland International Academy-Middle	Charter	Detroit	City: Large	42	119.85	98.87%	A
27	Saginaw Arts and Sciences Academy	Selective	Saginaw	City: Small	30	119.81	98.82%	A
28	Miller Elementary School	Conventional	Dearborn	City: Small	30	119.48	98.77%	A
29	Cesar Chavez Academy Elem. East	Charter	Detroit	City: Large	22	119.46	98.73%	A
30	Martin Luther King, Jr. Ed. Cen. Aca.	Charter	Detroit	City: Large	60	119.02	98.68%	A
31	Beach Elementary School	Conventional	Fruitport	Suburb: Midsize	30	118.95	98.64%	A
32	Stocking Elementary	Conventional	Grand Rapids	City: Midsize	30	118.85	98.59%	A
33	Northridge Academy	Charter	Flint	City: Midsize	60	118.75	98.55%	A
34	Rose City School	Conventional	West Branch-Rose	Rural: Remote	38	118.63	98.50%	A
35	The Dearborn Academy	Charter	Dearborn	City: Small	60	118.55	98.46%	A
36	Highview Elementary School	Conventional	Crestwood	Suburb: Large	18	118.45	98.41%	A
37	William Ford Elementary School	Conventional	Dearborn	City: Small	30	117.93	98.37%	A
38	Cesar Chavez Academy Intermediate	Charter	Detroit	City: Large	30	117.79	98.32%	A
39	Hope of Detroit Academy	Charter	Detroit	City: Large	29	117.31	98.28%	A
40	Southwood Elementary	Conventional	Kentwood	Suburb: Large	30	117.28	98.23%	A
41	Unis Middle School	Conventional	Dearborn	City: Small	30	117.01	98.18%	A
42	Leonidas School	Conventional	Colon	Rural: Distant	7	116.96	98.14%	A
43	Central Academy	Charter	Ann Arbor	City: Midsize	60	116.64	98.09%	A
44	Geer Park Elementary	Conventional	Dearborn	City: Small	30	116.46	98.05%	A
45	Angell School	Conventional	Ann Arbor	City: Midsize	30	116.35	98.00%	A
46	Marion Elementary School	Conventional	Marion	Rural: Remote	30	116.23	97.96%	A
47	City Middle/High School	Selective	Grand Rapids	City: Midsize	22	115.93	97.91%	A
48	John Ball Park Zoo School	Selective	Grand Rapids	City: Midsize	8	115.84	97.87%	A
49	Detroit Enterprise Academy	Charter	Detroit	City: Large	60	115.49	97.82%	A
50	Glenwood Elementary	Conventional	Kentwood	Suburb: Large	30	115.49	97.78%	A
51	Kenwood Elementary School	Conventional	Cadillac	Town: Remote	18	115.46	97.73%	A
52	Riverside Academy	Charter	Dearborn	City: Small	30	115.40	97.68%	A
53	McCollough Elementary School	Conventional	Dearborn	City: Small	30	115.36	97.64%	A
54	Washington Elementary School	Conventional	Sault Ste. Marie	Rural: Fringe	23	115.32	97.59%	A

						Overall CAP Values		
Table Rank	School Name	School Type	District or Municipality	Locale	# of Scores	Score	Percent Rank	Grade
55	Frankfort Elementary School	Conventional	Frankfort-Elberta	Rural: Remote	38	115.06	97.55%	A
56	Blandford Nature Center	Selective	Grand Rapids	City: Midsize	8	115.01	97.50%	A
57	Woodworth Middle School	Conventional	Dearborn	City: Small	30	114.97	97.46%	A
58	North Holland Elementary School	Conventional	West Ottawa	Suburb: Small	30	114.76	97.41%	A
59	Grandville Central Elementary School	Conventional	Grandville	Suburb: Large	38	114.69	97.37%	A
60	Clara B. Bolen Elementary School	Conventional	Tawas	Rural: Fringe	18	114.43	97.32%	A
61	Covert Middle School	Conventional	Covert	Rural: Distant	30	114.37	97.28%	A
62	Great Oaks Academy	Charter	Warren	City: Midsize	60	114.37	97.23%	A
63	Glencairn School	Conventional	East Lansing	City: Small	30	114.37	97.19%	A
64	Akron-Fairgrove Elem. School	Conventional	Akron-Fairgrove	Rural: Distant	30	114.09	97.14%	A
65	Discovery Elementary	Conventional	Kentwood	Suburb: Large	30	114.09	97.09%	A
66	Andrews Elementary School	Conventional	Three Rivers	Town: Fringe	30	114.03	97.05%	A
67	Harwood Elementary School	Conventional	Warren	City: Midsize	30	113.84	97.00%	A
68	Covert Elementary School	Conventional	Covert	Rural: Distant	30	113.78	96.96%	A
69	Weidman Elementary School	Conventional	Chippewa Hills	Rural: Remote	18	113.76	96.91%	A
70	Baldwin Elementary School	Conventional	Baldwin	Rural: Remote	34	113.75	96.87%	A
71	Dickinson East Elementary School	Conventional	Hamtramck	Suburb: Large	38	113.67	96.82%	A
72	Clague Middle School	Conventional	Ann Arbor	City: Midsize	30	113.65	96.78%	A
73	Fairview School	Conventional	Fairview	Rural: Remote	60	113.42	96.73%	A
74	Franklin Elementary School	Conventional	Cadillac	Town: Remote	18	113.40	96.69%	A
75	Barth Elementary School	Conventional	Romulus	Suburb: Large	41	113.22	96.64%	A
76	Griffin Elementary School	Conventional	Grand Haven	Suburb: Midsize	18	113.21	96.60%	A
77	Schuchard Elementary School	Conventional	Utica	Suburb: Large	38	113.03	96.55%	A
78	Meadowlawn Elementary	Conventional	Kentwood	Suburb: Large	30	113.02	96.50%	A
79	Oakland International Academy-Elem.	Charter	Detroit	City: Large	18	113.00	96.46%	A
80	Eagle Crest Charter Academy	Charter	Holland	Suburb: Small	60	112.98	96.41%	A
81	River Oaks Elementary School	Conventional	Dearborn	City: Small	30	112.91	96.37%	A
82	Lakeshore Elementary School	Conventional	West Ottawa	Suburb: Small	30	112.90	96.32%	A
83	Boulan Park Middle School	Conventional	Troy	City: Small	30	112.86	96.28%	A
84	Frankfort High School	Conventional	Frankfort-Elberta	Rural: Remote	22	112.79	96.23%	A
85	Henry Ford Elementary School	Conventional	Dearborn	City: Small	30	112.71	96.19%	A
86	Cavanaugh School	Conventional	Lansing	City: Midsize	8	112.63	96.14%	A
87	Salina Elementary P-3	Conventional	Dearborn	City: Small	8	112.53	96.10%	A
88	Detroit Merit Charter Academy	Charter	Detroit	City: Large	60	112.49	96.05%	A
89	New Paradigm Glazer Academy	Charter	Detroit	City: Large	41	112.45	96.01%	A
90	Michigan Math. and Science Aca.	Charter	Center Line	Suburb: Large	46	112.40	95.96%	A
91	Ridge Park Charter Academy	Charter	Grand Rapids	Suburb: Large	60	112.40	95.91%	A
92	Wright, Charles School	Conventional	Detroit	City: Large	18	112.38	95.87%	A
93	Ashley Elementary School	Conventional	Ashley	Rural: Distant	18	112.36	95.82%	A
94	Barryton Elementary School	Conventional	Chippewa Hills	Rural: Remote	18	112.19	95.78%	A
95	Hemmeter Elementary School	Selective	Saginaw Twp.	Suburb: Midsize	30	112.19	95.73%	A
96	Reo School	Conventional	Lansing	City: Midsize	8	111.98	95.69%	A
97	Stout Middle School	Conventional	Dearborn	City: Small	30	111.94	95.64%	A
98	South Arbor Charter Academy	Charter	Ypsilanti	Rural: Fringe	60	111.91	95.60%	A
99	Avoca Elementary School	Conventional	Yale	Rural: Distant	30	111.84	95.55%	A
100	Haigh Elementary School	Conventional	Dearborn	City: Small	30	111.77	95.51%	A

The table title is: **Top 100 Public Elementary and Middle Schools**

The Bottom 100 Public Elementary and Middle Schools

The lowest-rated entry on the 2019 CAP Report Card is STEAM Academy at MLK in Benton Harbor Area Schools. All three of the troubled district's schools in the analysis show up in the bottom 100, including one other ranked the sixth-lowest. Benton Harbor has faced extra scrutiny from state officials in recent months over concerns about the district's deep academic and financial struggles.[*]

For the third consecutive edition of the report card, more than 40 conventional district schools in Detroit have finished in the bottom 100. This year nearly 60% of eligible schools operated by the Detroit Public Schools Community District received the negative distinction, a reflection of poor performance even after adjusting for student poverty. However, while conventional Detroit schools received 16 of the 20 lowest CAP Scores in 2017, that number dropped to nine in the current edition. The bottom 100 did include multiple showings from smaller nearby metro districts: Wayne-Westland (four of its 14 schools), East Detroit (two of its three schools) and Hazel Park (two of its four schools).

The number of charter schools in the bottom 100 matched the 2017 total of 23. This includes three of the six charters located in Pontiac, and both of the schools that represent the Muskegon Heights Public School Academy System — a converted former conventional school district that was appointed an emergency manager in 2012.

As in 2017, 90 of the lowest 100 CAP Scores come from either urban or suburban schools. Yet those located specifically in cities only comprise 65 in this edition, down from 74 in 2017. Only one town school and nine rural schools rated in the bottom 100.

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	STEAM Academy at MLK	Conventional	Benton Harbor	City: Small	36	75.18	0.05%	F
2	Douglass Academy for Young Men	Conventional	Detroit	City: Large	18	75.84	0.09%	F
3	Accelerated Learning Academy	Conventional	Flint	City: Small	16	76.59	0.14%	F
4	Henderson Academy	Conventional	Detroit	City: Large	60	76.77	0.18%	F
5	Fourth Street Learning Center	Conventional	Jackson	City: Small	30	76.94	0.23%	F
6	Arts & Comm. Academy at Fair Plain	Conventional	Benton Harbor	City: Small	38	77.72	0.27%	F
7	Marquette Elementary-Middle School	Conventional	Detroit	City: Large	60	79.33	0.32%	F
8	Burns Elementary-Middle School	Conventional	Detroit	City: Large	60	79.39	0.36%	F
9	Law Elementary School	Conventional	Detroit	City: Large	60	79.44	0.41%	F
10	Clark, J.E. Preparatory Academy	Conventional	Detroit	City: Large	60	79.44	0.45%	F
11	Madison Virtual Academy	Conventional	Madison (Oakland)	Suburb: Large	24	79.56	0.50%	F
12	Mason Elementary School	Conventional	Detroit	City: Large	60	79.93	0.54%	F
13	Sampson Academy	Conventional	Detroit	City: Large	60	81.05	0.59%	F
14	J.W. Sexton High School	Conventional	Lansing	City: Midsize	22	81.10	0.64%	F
15	Muskegon Heights Academy	Charter	Muskegon	Suburb: Midsize	22	81.35	0.68%	F
16	Northwestern Middle School	Conventional	Battle Creek	City: Small	30	81.45	0.73%	F
17	Mackenzie Elementary-Middle School	Conventional	Detroit	City: Large	60	81.47	0.77%	F
18	Flat River Academy-Elementary	Charter	Greenville	Rural: Fringe	14	81.63	0.82%	F
19	Macomb Montessori Academy	Charter	Warren	City: Midsize	29	81.72	0.86%	F
20	Faxon Language Immersion Academy	Charter	Farmington Hills	City: Small	20	81.76	0.91%	F
21	Bow Elementary-Middle School	Conventional	Detroit	City: Large	60	81.90	0.95%	F
22	Keys Grace Academy	Charter	Madison Heights	Suburb: Large	53	82.21	1.00%	F

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[*]   "State Proposes Panel to Help Save Benton Harbor Schools," (*The Detroit News*, Aug. 16, 2019), https://perma.cc/D3UW-RVAA.

						Overall CAP Values		
Table Rank	School Name	School Type	District or Municipality	Locale	# of Scores	Score	Percent Rank	Grade
23	John R. King Aca. & Performing Arts Aca.	Conventional	Detroit	City: Large	60	82.41	1.04%	F
24	Eastside Detroit Lions Academy	Conventional	Detroit	City: Large	28	82.50	1.09%	F
25	Brenda Scott Academy for Theatre Arts	Conventional	Detroit	City: Large	60	82.82	1.13%	F
26	Dr. Martin Luther King Academy	Charter	Muskegon	Suburb: Midsize	38	82.88	1.18%	F
27	West Michigan Virtual-Battle Creek MS	Conventional	Berrien Springs	Town: Fringe	22	82.92	1.23%	F
28	Sarah J. Webber Media Arts Academy	Charter	Pontiac	City: Small	54	83.00	1.27%	F
29	Detroit Public Safety Academy	Charter	Detroit	City: Large	26	83.25	1.32%	F
30	Mid Peninsula School	Conventional	Mid Peninsula	Rural: Distant	48	83.28	1.36%	F
31	Brewer Elementary-Middle School	Conventional	Detroit	City: Large	60	83.40	1.41%	F
32	Durfee Elementary-Middle School	Conventional	Detroit	City: Large	60	83.81	1.45%	F
33	Blackwell Institute	Conventional	Detroit	City: Large	60	83.90	1.50%	F
34	Arts and Technology Academy of Pontiac	Charter	Pontiac	City: Small	60	84.16	1.54%	F
35	Fisher Magnet Upper Academy	Conventional	Detroit	City: Large	42	84.36	1.59%	F
36	Mary McLeod Bethune Elem.-MS	Conventional	Detroit	City: Large	60	84.43	1.63%	F
37	Kelly Middle School	Conventional	East Detroit	Suburb: Large	30	84.66	1.68%	F
38	Brick Elementary School	Conventional	Lincoln	Rural: Fringe	30	84.67	1.72%	F
39	Brown, Ronald Academy	Conventional	Detroit	City: Large	51	84.88	1.77%	F
40	Huron Park Elementary School	Conventional	Roseville	Suburb: Large	30	84.93	1.82%	F
41	Adams Upper Elementary School	Conventional	Wayne-Westland	Suburb: Large	20	84.93	1.86%	F
42	Schulze Elementary-Middle School	Conventional	Detroit	City: Large	38	85.00	1.91%	F
43	LifeTech Academy	Charter	Lansing	City: Midsize	17	85.19	1.95%	F
44	Multicultural Academy	Charter	Ann Arbor	Suburb: Large	53	85.32	2.00%	F
45	Noble Elementary-Middle School	Conventional	Detroit	City: Large	60	85.41	2.04%	F
46	CB Sabbath 6-8 Preparatory Academy	Conventional	River Rouge	Suburb: Large	30	85.46	2.09%	F
47	Alger Middle School	Conventional	Grand Rapids	City: Midsize	30	85.53	2.13%	F
48	Battle Creek Montessori Academy	Charter	Springfield	Suburb: Small	33	85.55	2.18%	F
49	Holmes STEM Academy	Conventional	Flint	City: Midsize	57	85.56	2.22%	F
50	Vernor Elementary School	Conventional	Detroit	City: Large	38	85.58	2.27%	F
51	Eaton Academy	Charter	Detroit	Suburb: Large	60	85.79	2.32%	F
52	Priest Elementary-Middle School	Conventional	Detroit	City: Large	60	85.79	2.36%	F
53	Leelanau Montessori PSA	Charter	Suttons Bay	Rural: Distant	13	85.81	2.41%	F
54	Insight School of Michigan	Charter	Lansing	Suburb: Large	30	85.81	2.45%	F
55	Dossin Elementary-Middle School	Conventional	Detroit	City: Large	60	85.86	2.50%	F
56	Mann Elementary School	Conventional	Detroit	City: Large	29	85.88	2.54%	F
57	Thirkell Elementary School	Conventional	Detroit	City: Large	60	85.89	2.59%	F
58	Ann Arbor Trail Magnet School	Conventional	Detroit	City: Large	60	86.05	2.63%	F
59	American International Academy	Charter	Westland	Suburb: Large	35	86.23	2.68%	F
60	Lansing K-8 STEM Magnet Academy	Conventional	Lansing	City: Midsize	50	86.38	2.72%	F
61	Eastern High School	Conventional	Lansing	City: Midsize	22	86.41	2.77%	F
62	Hoover Elementary School	Conventional	Wayne-Westland	Suburb: Large	18	86.51	2.81%	F
63	Hoover Elementary School	Conventional	Hazel Park	Suburb: Large	30	86.58	2.86%	F
64	Dixon Elementary School	Conventional	Detroit	City: Large	60	86.66	2.91%	F
65	North School	Conventional	Lansing	City: Midsize	41	86.70	2.95%	F
66	Palmer Park Preparatory Academy	Conventional	Detroit	City: Large	60	86.72	3.00%	F
67	Owendale-Gagetown Jr/Sr High School	Conventional	Owendale-Gagetown	Rural: Remote	20	86.78	3.04%	F
68	Bagley Elementary School	Conventional	Detroit	City: Large	38	86.80	3.09%	F
69	Gardner Elementary School	Conventional	Detroit	City: Large	30	86.89	3.13%	F
70	Wayne Elementary School	Conventional	Detroit	City: Large	30	86.94	3.18%	F
71	Plymouth Educational Center	Charter	Detroit	City: Large	60	86.97	3.22%	F
72	Kensington Woods Schools	Charter	Lakeland	Suburb: Midsize	24	87.04	3.27%	F
73	Highpoint Virtual Academy of Michigan	Charter	Mesick	Rural: Remote	44	87.12	3.31%	F
74	Country Elementary School	Conventional	Pinckney	Rural: Fringe	8	87.16	3.36%	F
75	Pulaski Elementary-Middle School	Conventional	Detroit	City: Large	60	87.35	3.40%	F
76	Attwood School	Conventional	Lansing	City: Midsize	30	87.55	3.45%	F

The table title "Bottom 100 Public Elementary and Middle Schools" appears as a header row above the table.

						Overall CAP Values		
Table Rank	**School Name**	**School Type**	**District or Municipality**	**Locale**	**# of Scores**	**Score**	**Percent Rank**	**Grade**

<!-- Bottom 100 Public Elementary and Middle Schools -->

Table Rank	**School Name**	**School Type**	**District or Municipality**	**Locale**	**# of Scores**	**Score**	**Percent Rank**	**Grade**
77	Neinas Dual Language Learning Academy	Conventional	Detroit	City: Large	51	87.56	3.50%	F
78	Westwood Middle School	Conventional	Grand Rapids	City: Midsize	30	87.58	3.54%	F
79	Simonds Elementary School	Conventional	Lamphere	Suburb: Large	30	87.61	3.59%	F
80	Edward "Duke" Ellington @ Beckham	Conventional	Detroit	City: Large	60	87.63	3.63%	F
81	Ann J. Kellogg School	Conventional	Battle Creek	City: Small	30	87.70	3.68%	F
82	Global Dual Language School	Conventional	Benton Harbor	Suburb: Small	20	87.86	3.72%	F
83	Earhart Elementary-Middle School	Conventional	Detroit	City: Large	60	87.93	3.77%	F
84	Pontiac Academy for Excellence-Elem.	Charter	Pontiac	City: Small	30	87.94	3.81%	F
85	David Hicks School	Conventional	Wayne-Westland	Suburb: Large	18	87.99	3.86%	F
86	Benjamin Franklin Middle School	Conventional	Wayne-Westland	Suburb: Large	22	88.02	3.90%	F
87	Mount Clemens Middle School	Conventional	Mt. Clemens	Suburb: Large	30	88.35	3.95%	F
88	Carstens Elementary-Middle School	Conventional	Detroit	City: Large	60	88.41	3.99%	F
89	Jessie Loomis School	Conventional	Saginaw	City: Small	38	88.52	4.04%	F
90	Light of the World Academy	Charter	Pinckney	Suburb: Midsize	44	88.53	4.09%	F
91	Bunche Elementary-Middle School	Conventional	Detroit	City: Large	60	88.57	4.13%	F
92	United Oaks Elementary School	Conventional	Hazel Park	Suburb: Large	30	88.59	4.18%	F
93	Charyl Stockwell Academy	Charter	Howell	Rural: Fringe	30	88.61	4.22%	F
94	Mohawk Elementary School	Conventional	Chippewa Valley	Suburb: Large	30	88.62	4.27%	F
95	Fisher Magnet Lower Academy	Conventional	Detroit	City: Large	18	88.70	4.31%	F
96	Ludington Magnet Middle School	Conventional	Detroit	City: Large	42	88.77	4.36%	F
97	Pleasantview Elementary School	Conventional	East Detroit	Suburb: Large	30	88.78	4.40%	F
98	Edison Elementary School	Conventional	Detroit	City: Large	30	88.95	4.45%	F
99	Carver Elementary-Middle School	Conventional	Detroit	City: Large	60	88.95	4.49%	F
100	Innocademy Allegan Campus	Charter	Fennville	Rural: Distant	26	88.96	4.54%	F

Long-Term Trends in CAP Scores

First introduced in the previous edition of the Elementary and Middle School Context and Report Card, two analyses of longer-term achievement trends were also conducted. A comparison with the data used to compile CAP Scores for earlier report cards can point to schools that have substantially improved or declined in their relative academic performance. 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

This analysis compares schools' prior adjusted performance to that achieved on the current edition of the Elementary and Middle School Report Card. Included in the analysis were all of the 2,203 schools which also have at least four unique yearly CAP Scores between 2009 and 2015. The resulting sample of 2,075 left out more recently opened schools, as well as those with insufficient reported data due to smaller test-taking cohorts. The consolidation and grade reconfiguration of schools in some locations also may have omitted others, as only scores from schools with a consistent building code number from the Michigan Department of Education were used. However, the sample does include schools that changed district

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[*]   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 (-0.1092) 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-six of the 100 most improved schools, and 61 of the schools with the largest declines, had smaller student enrollments than the sample's median enrollment size for the 2018-19 school year.

affiliations while maintaining a consistent building code — notably, former district schools converted to charter management or those once operated under the state's Education Achievement Authority.

A simple method for tabulating change in school performance over time was retained from the 2017 report card. The difference is measured between a school's overall CAP Score, as reported above, and an average of the calculated yearly CAP Scores between 2009 and 2015. For instance, Bauer Elementary School in Hudsonville earned a 105.88 CAP Score in this edition of the report card. The average of its seven annual CAP Scores from 2009 to 2015 was 105.38. Therefore, Bauer Elementary recorded a 0.5-point improvement.

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 helps address concerns about the impact that changes to these tests may have had on the ability to measure such long-term trends.

100 Most Improved Public Elementary and Middle Schools

Only 39 schools, less than 2% of the total sample, improved average CAP Scores by 10 points or more. Topping the list of most improved schools was Caniff Liberty Academy, one of three Hamtramck charter schools, with a net gain of 19.56 points on its CAP Score. In all, public charter schools made up 29 of the 100 most improved, though they comprise only 10% of the sample. Certain cities saw large proportions of their charter schools make the greatest improvements. Half of Flint's six charter schools and two of the three charter schools in Taylor landed in the top 100. Nearly one-third (15 of 54) of Detroit charters made the list.

Two districts in Wayne County had particularly distinguished showings in the top 100: Garden City Public Schools had two of its three schools make the list and Woodhaven-Brownstown School District saw three of its seven do the same. As a whole, city schools are overrepresented, with 37 of the 100 most improved schools.

					CAP Scores		
Table Rank	School Name	School Type	District or Municipality	Locale	2009-2015	2016-2019	Change
1	Caniff Liberty Academy	Charter	Hamtramck	Suburb: Large	91.78	111.34	19.56
2	C.K. Schickler Elementary School	Conventional	Lapeer	Town: Fringe	104.71	120.80	16.10
3	Gallimore Elementary School	Conventional	Plymouth-Canton	Suburb: Large	103.99	120.01	16.02
4	Cavanaugh School	Conventional	Lansing	City: Midsize	97.13	112.63	15.50
5	Hanley International Academy	Charter	Hamtramck	Suburb: Large	108.37	123.63	15.25
6	Barth Elementary School	Conventional	Romulus	Suburb: Large	98.25	113.22	14.97
7	Oakland International Academy-Middle	Charter	Detroit	City: Large	105.44	119.85	14.42
8	Lakeview Elementary School	Conventional	Lakeview (Montcalm)	Rural: Distant	95.87	109.84	13.96
9	Beach Elementary School	Conventional	Fruitport	Suburb: Midsize	105.19	118.95	13.76
10	Harwood Elementary School	Conventional	Warren	City: Midsize	100.13	113.84	13.71
11	Trix Performance Academy	Charter	Detroit	City: Large	83.69	97.32	13.63
12	Michigan Mathematics and Science Aca.	Charter	Center Line	Suburb: Large	99.12	112.40	13.28
13	Rutherford Winans Academy	Charter	Detroit	City: Large	95.61	108.87	13.27
14	Douglas Elementary 3-4 Campus	Conventional	Garden City	Suburb: Large	94.80	108.04	13.24
15	Northridge Academy	Charter	Flint	City: Midsize	105.60	118.75	13.15
16	Farmington 5-6 Campus	Conventional	Garden City	Suburb: Large	91.52	104.60	13.07
17	Martin High School	Conventional	Martin	Rural: Distant	93.57	106.33	12.76
18	New Paradigm Glazer Academy	Charter	Detroit	City: Large	100.26	112.45	12.19
19	Rankin Elementary School	Conventional	Carman-Ainsworth	Suburb: Large	112.65	124.54	11.89

(The first header row above spans: **100 Most Improved Public Elementary and Middle Schools**)

					CAP Scores		
Table Rank	School Name	School Type	District or Municipality	Locale	2009-2015	2016-2019	Change
20	Global Heights Academy	Charter	Dearborn Heights	Suburb: Large	96.22	107.93	11.71
21	Schuchard Elementary School	Conventional	Utica	Suburb: Large	101.43	113.03	11.60
22	Cooley Elementary School	Conventional	Waterford	Suburb: Large	98.69	110.24	11.54
23	Rogers City Elementary School	Conventional	Rogers City	Town: Remote	95.49	106.92	11.44
24	Lincoln-King Academy	Charter	Detroit	Suburb: Large	93.23	104.66	11.43
25	Legacy Charter Academy	Charter	Detroit	City: Large	99.95	111.34	11.39
26	McKinley Elementary School	Conventional	Van Dyke	City: Midsize	96.85	108.10	11.24
27	Mackinaw City K-12 School	Conventional	Mackinaw City	Rural: Distant	96.18	107.27	11.09
28	Hamilton Academy	Charter	Detroit	City: Large	79.04	89.99	10.94
29	River Oaks Elementary School	Conventional	Dearborn	City: Small	102.26	112.91	10.65
30	Detroit Edison Public School Academy	Charter	Detroit	City: Large	109.89	120.37	10.48
31	Haas Elementary School	Conventional	Genesee	Suburb: Large	100.28	110.70	10.42
32	Lake Hills Elementary School	Conventional	Grand Haven	Suburb: Midsize	110.98	121.32	10.33
33	Madison Academy Elem.-MS	Charter	Flint	Rural: Fringe	98.94	109.23	10.28
34	Flat River Academy-Middle/High School	Charter	Greenville	Rural: Fringe	81.68	91.96	10.28
35	Trillium Academy	Charter	Taylor	City: Small	95.20	105.41	10.21
36	Houghton Elementary School	Conventional	Waterford	Suburb: Large	94.26	104.45	10.19
37	Ashley Elementary School	Conventional	Ashley	Rural: Distant	102.28	112.36	10.07
38	Detroit Innovation Academy	Charter	Detroit	City: Large	92.91	102.97	10.06
39	Golightly Education Center	Conventional	Detroit	City: Large	91.14	101.14	10.00
40	Hyatt Elementary	Conventional	Linden	Suburb: Large	91.68	101.65	9.97
41	Forrest G. Averill School	Conventional	Lansing	City: Midsize	96.91	106.88	9.97
42	Merrill Park Elementary School	Conventional	Saginaw	City: Small	99.10	109.02	9.93
43	Nolan Elementary-Middle School	Conventional	Detroit	City: Large	82.97	92.75	9.78
44	The New Standard Academy	Charter	Flint	Suburb: Large	97.31	107.09	9.77
45	Angus Elementary School	Conventional	Warren	City: Midsize	98.67	108.44	9.77
46	Willow Woods Elementary School	Conventional	Warren	City: Midsize	96.35	106.11	9.75
47	Big Bay De Noc School	Conventional	Big Bay De Noc	Rural: Remote	96.10	105.73	9.64
48	Roosevelt Elementary School	Conventional	Zeeland	Suburb: Small	97.32	106.88	9.56
49	Rainbow Elementary School	Conventional	Clintondale	Suburb: Large	96.85	106.36	9.51
50	McCollough Elementary School	Conventional	Dearborn	City: Small	105.96	115.36	9.40
51	Swan Valley Middle School	Conventional	Swan Valley	Suburb: Midsize	97.04	106.28	9.24
52	Detroit Community Schools-Elem.	Charter	Detroit	City: Large	92.58	101.78	9.20
53	West Godwin Elementary School	Conventional	Godwin Heights	City: Small	113.36	122.54	9.18
54	North Holland Elementary School	Conventional	West Ottawa	Suburb: Small	105.69	114.76	9.07
55	Detroit Enterprise Academy	Charter	Detroit	City: Large	106.49	115.49	9.00
56	Jefferson Elementary School	Conventional	Coldwater	Town: Distant	92.80	101.68	8.88
57	Manistique Middle and High School	Conventional	Manistique	Town: Remote	96.07	104.89	8.81
58	The Dearborn Academy	Charter	Dearborn	City: Small	109.77	118.55	8.78
59	Haigh Elementary School	Conventional	Dearborn	City: Small	102.99	111.77	8.78
60	Francis Reh PSA	Charter	Saginaw	City: Small	99.60	108.20	8.59
61	Gudith Elementary School	Conventional	Woodhaven-Brownstown	Suburb: Large	94.58	103.16	8.58
62	International Preparatory Aca.-MacDowell	Charter	Detroit	City: Large	91.13	99.69	8.57
63	Wegienka Elementary School	Conventional	Woodhaven-Brownstown	Suburb: Large	95.45	104.02	8.57
64	Riverside Elementary School	Conventional	Waterford	Suburb: Large	97.75	106.31	8.56
65	Marion Elementary School	Conventional	Marion	Rural: Remote	107.68	116.23	8.54
66	Pewamo-Westphalia Elementary School	Conventional	Pewamo-Westphalia	Rural: Distant	102.02	110.54	8.52
67	Pine Trails Elementary School	Conventional	Allegan	Town: Distant	98.89	107.40	8.51
68	Hope of Detroit Academy	Charter	Detroit	City: Large	108.82	117.31	8.49
69	Vanderbilt Area School	Conventional	Vanderbilt	Rural: Distant	91.36	99.84	8.48
70	Mid-Michigan Leadership Academy	Charter	Lansing	City: Midsize	99.87	108.32	8.46
71	Gobles Elementary School	Conventional	Gobles	Rural: Distant	101.26	109.65	8.39
72	Schwarzkoff Elementary School	Conventional	Utica	Suburb: Large	97.77	106.12	8.35
73	Grissom Middle School	Conventional	Warren	City: Midsize	99.57	107.71	8.14

Table Rank	School Name	School Type	District or Municipality	Locale	CAP Scores		
					2009-2015	2016-2019	Change
	100 Most Improved Public Elementary and Middle Schools						
74	Maples Elementary School	Conventional	Dearborn	City: Small	121.81	129.93	8.13
75	Cesar Chavez Academy Intermediate	Charter	Detroit	City: Large	109.68	117.79	8.12
76	Evart Elementary School	Conventional	Evart	Rural: Remote	95.59	103.67	8.08
77	Quest Charter Academy	Charter	Taylor	City: Small	97.42	105.48	8.07
78	Dundee Elementary School	Conventional	Dundee	Town: Fringe	94.08	102.07	8.00
79	MacGregor Elementary School	Conventional	Bay City	City: Small	97.97	105.93	7.96
80	Yake Elementary School	Conventional	Woodhaven-Brownstown	Suburb: Large	94.02	101.90	7.88
81	Pine River Elementary School	Conventional	Bullock Creek	Rural: Fringe	101.67	109.55	7.87
82	Mayville Elementary School	Conventional	Mayville	Rural: Distant	95.44	103.30	7.85
83	Wagar 7/8 Middle School	Conventional	Airport	Rural: Fringe	94.63	102.25	7.62
84	Mason Central School	Conventional	Mason (Monroe)	Rural: Fringe	101.36	108.97	7.61
85	Hillcrest Elementary School	Conventional	Crestwood	Suburb: Large	102.76	110.37	7.61
86	Indian Lake Elementary School	Conventional	Vicksburg	Suburb: Midsize	99.27	106.87	7.60
87	Camden-Frontier K-8 School	Conventional	Camden-Frontier	Rural: Distant	97.69	105.25	7.57
88	Kate Dowdall Elementary School	Conventional	Kearsley	Suburb: Large	100.49	108.06	7.57
89	Earl F. Carr School	Conventional	Lincoln Park	Suburb: Large	94.91	102.48	7.57
90	Jefferson Elementary School	Conventional	Warren	City: Midsize	102.33	109.88	7.55
91	Highview Elementary School	Conventional	Crestwood	Suburb: Large	110.92	118.45	7.54
92	Hamtramck Academy	Charter	Hamtramck	Suburb: Large	128.79	136.29	7.51
93	Akron-Fairgrove Elem. School	Conventional	Akron-Fairgrove	Rural: Distant	106.64	114.09	7.45
94	Frankfort High School	Conventional	Frankfort-Elberta	Rural: Remote	105.35	112.79	7.44
95	Zeeland Quest	Conventional	Zeeland	Suburb: Small	92.78	100.23	7.44
96	Schoolcraft Middle School	Conventional	Schoolcraft	Suburb: Midsize	93.95	101.37	7.42
97	Hunt Elementary School	Conventional	Jackson	City: Small	99.17	106.56	7.39
98	Three Lakes Academy	Charter	Curtis	Rural: Remote	99.15	106.52	7.37
99	Thomas Read Elementary School	Conventional	Shelby	Rural: Distant	97.71	105.06	7.35
100	Cedar Crest Elementary School	Conventional	Greenville	Town: Distant	99.07	106.40	7.34

100 Largest Declines Among Public Elementary and Middle Schools

For the second straight edition of the CAP Report Card, Thirkell Elementary in the Detroit Public Schools Community District recorded the biggest decline. Thirkell received the highest score on the original 2013 report card. Detroit district schools were less overrepresented among the 100 biggest CAP Score declines — 17 this time, compared to 31 identified in the 2017 report. In Macomb County, both Mt. Clemens district schools and two of the four from the Clintondale School District landed in the bottom 100, as well as three out of four from Hazel Park Schools in Oakland County.

Farther north, three out of five Pontiac charter schools recorded some of the 100 largest declines in CAP Scores. At number 11, Lansing's El-Hajj Malik El-Shabazz Academy experienced the biggest decline among charter schools. Overall, 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		
					2009-2015	2016-2019	Change
1	Thirkell Elementary School	Conventional	Detroit	City: Large	118.36	85.89	(32.48)
2	Arts & Comm. Academy at Fair Plain	Conventional	Benton Harbor	City: Small	99.97	77.72	(22.25)
3	Ronald Brown Academy	Conventional	Detroit	City: Large	105.62	84.88	(20.75)
4	Harrington Elementary School	Conventional	Marshall (Albion)	Town: Fringe	110.58	90.73	(19.85)
5	Robbie Hall Parker School	Conventional	Clintondale	Suburb: Large	116.27	97.18	(19.09)
6	Miller Elementary School	Conventional	Plymouth-Canton	Suburb: Large	108.97	92.13	(16.84)
7	Dixon Elementary School	Conventional	Detroit	City: Large	103.45	86.66	(16.79)
8	Kendon School	Conventional	Lansing	City: Midsize	107.21	90.63	(16.58)
9	East Leonard School	Conventional	Grand Rapids	City: Midsize	106.54	90.50	(16.04)
10	Hoover Elementary School	Conventional	Wayne-Westland	Suburb: Large	102.30	86.51	(15.79)
11	El-Hajj Malik El-Shabazz Academy	Charter	Lansing	City: Midsize	109.81	94.43	(15.38)
12	North Godwin Elementary School	Conventional	Godwin Heights	City: Small	123.95	108.74	(15.21)
13	Davison Elementary-Middle School	Conventional	Detroit	City: Large	122.37	107.69	(14.67)
14	Universal Academy	Charter	Detroit	City: Large	108.25	93.80	(14.45)
15	Detroit Service Learning Academy Campus	Charter	Detroit	City: Large	106.98	92.89	(14.09)
16	Charles C. McGlinnen School	Conventional	Clintondale	Suburb: Large	105.98	91.90	(14.08)
17	Arts and Technology Academy of Pontiac	Charter	Pontiac	City: Small	98.23	84.16	(14.07)
18	Vernor Elementary School	Conventional	Detroit	City: Large	99.51	85.58	(13.93)
19	Owendale-Gagetown Jr/Sr High School	Conventional	Owendale-Gagetown	Rural: Remote	100.06	86.78	(13.28)
20	Huron Park Elementary School	Conventional	Roseville	Suburb: Large	97.89	84.93	(12.96)
21	Douglass Academy for Young Men	Conventional	Detroit	City: Large	88.41	75.84	(12.57)
22	Gordon Elementary School	Conventional	Marshall	Town: Fringe	106.65	94.46	(12.19)
23	John F. Kennedy School	Conventional	Ferndale	Suburb: Large	104.45	92.37	(12.08)
24	Bernice McDowell Elem. School	Conventional	Taylor	City: Small	101.64	89.72	(11.92)
25	Hoover Elementary School	Conventional	Hazel Park	Suburb: Large	98.32	86.58	(11.75)
26	Alba School	Conventional	Alba	Rural: Remote	102.65	91.05	(11.60)
27	Coit Arts Academy	Conventional	Grand Rapids	City: Midsize	111.01	99.56	(11.45)
28	Crystal Lake Elementary School	Conventional	Benzie County	Rural: Remote	108.98	97.64	(11.34)
29	Adams Upper Elementary School	Conventional	Wayne-Westland	Suburb: Large	96.21	84.93	(11.27)
30	Mann Elementary School	Conventional	Detroit	City: Large	97.13	85.88	(11.25)
31	Willow School	Conventional	Lansing	City: Midsize	101.68	90.50	(11.18)
32	Seminole Academy	Conventional	Mt. Clemens	Suburb: Large	103.26	92.18	(11.08)
33	Frank E. Bartlett School	Conventional	South Lyon	Suburb: Midsize	107.67	96.64	(11.03)
34	Durant Tuuri Mott School	Conventional	Flint	City: Midsize	107.71	96.71	(10.99)
35	Thurgood Marshall Elementary School	Conventional	Detroit	City: Large	100.16	89.19	(10.97)
36	Hope Academy	Charter	Detroit	City: Large	98.89	89.04	(9.85)
37	Simonds Elementary School	Conventional	Lamphere	Suburb: Large	97.39	87.61	(9.77)
38	Lucile S. Patton Elem. School	Conventional	Roseville	Suburb: Large	107.16	97.44	(9.72)
39	Brick Elementary School	Conventional	Lincoln	Rural: Fringe	94.20	84.67	(9.53)
40	Bow Elementary-Middle School	Conventional	Detroit	City: Large	91.38	81.90	(9.48)
41	United Oaks Elementary School	Conventional	Hazel Park	Suburb: Large	98.04	88.59	(9.46)
42	Ann Arbor Trail Magnet School	Conventional	Detroit	City: Large	95.48	86.05	(9.43)
43	International Academy of Flint (K-12)	Charter	Flint	City: Midsize	108.58	99.26	(9.32)
44	Vandenberg Elementary School	Conventional	Southfield	City: Small	106.34	97.10	(9.24)
45	Gompers Elementary-Middle School	Conventional	Detroit	City: Large	101.93	92.81	(9.11)
46	Cesar E. Chavez Elementary	Conventional	Grand Rapids	City: Midsize	101.99	93.00	(8.99)
47	Frostick School	Conventional	Croswell-Lexington	Rural: Fringe	109.53	100.62	(8.91)
48	North Ohio Elementary School	Conventional	Gaylord	Rural: Fringe	109.18	100.30	(8.87)
49	Neithercut Elementary School	Conventional	Flint	City: Midsize	101.53	92.70	(8.84)
50	Saginaw Preparatory Academy	Charter	Saginaw	Suburb: Midsize	109.88	101.14	(8.74)
51	Plymouth Educational Center	Charter	Detroit	City: Large	95.71	86.97	(8.74)
52	Ludington Magnet Middle School	Conventional	Detroit	City: Large	97.49	88.77	(8.73)
53	CB Sabbath 6-8 Preparatory Academy	Conventional	River Rouge	Suburb: Large	94.16	85.46	(8.70)
54	Montague Elementary School	Conventional	Mt. Morris	Suburb: Large	105.52	96.84	(8.68)

					CAP Scores		
Table Rank	School Name	School Type	District or Municipality	Locale	2009-2015	2016-2019	Change
55	Eisenhower School	Conventional	Flint	City: Midsize	101.28	92.65	(8.64)
56	Traverse Heights Elem. School	Conventional	Traverse City	Town: Remote	108.20	99.67	(8.53)
57	Wayne Elementary School	Conventional	Detroit	City: Large	95.46	86.94	(8.52)
58	Central School	Conventional	Owosso	Town: Distant	101.27	92.78	(8.49)
59	P.D. Graham Elementary School	Conventional	Wayne-Westland	Suburb: Large	100.63	92.30	(8.33)
60	Columbiaville Elementary School	Conventional	LakeVille	Rural: Distant	103.90	95.61	(8.29)
61	Harper Woods Middle School	Conventional	Harper Woods	Suburb: Large	98.26	89.97	(8.29)
62	Academy for Business and Tech. Elem.	Charter	Dearborn	Suburb: Large	108.32	100.12	(8.20)
63	Edison Elementary School	Conventional	Detroit	City: Large	97.14	88.95	(8.19)
64	Ann L. Dolsen Elementary School	Conventional	South Lyon	Suburb: Midsize	101.47	93.31	(8.16)
65	Richfield Public School Academy	Charter	Flint	City: Midsize	107.59	99.47	(8.12)
66	East Oakview Elementary School	Conventional	Northview	Suburb: Large	99.01	90.95	(8.06)
67	K.I. Sawyer Elementary School	Conventional	Gwinn	Rural: Remote	109.72	101.71	(8.01)
68	Hillman Elementary School	Conventional	Hillman	Rural: Remote	101.04	93.04	(8.00)
69	Mount Clemens Middle School	Conventional	Mt. Clemens	Suburb: Large	96.18	88.35	(7.84)
70	Summit Academy	Charter	Romulus	Suburb: Large	100.26	92.44	(7.82)
71	Mecosta Elementary School	Conventional	Chippewa Hills	Rural: Remote	108.31	100.52	(7.79)
72	Great Lakes Academy	Charter	Pontiac	City: Small	102.07	94.31	(7.77)
73	Hazel Park Junior High School	Conventional	Hazel Park	Suburb: Large	102.23	94.46	(7.76)
74	Collins Elementary School	Conventional	Houghton Lake	Rural: Fringe	110.75	102.99	(7.76)
75	Lillian Fletcher Elem. School	Conventional	Homer	Rural: Distant	101.08	93.35	(7.74)
76	Colon High School	Conventional	Colon	Rural: Distant	98.25	90.57	(7.68)
77	Eugene B. Elliott Elem. School	Conventional	Wayne-Westland	Suburb: Large	99.24	91.57	(7.67)
78	Sandyview Elementary School	Conventional	Hamilton	Rural: Fringe	103.70	96.06	(7.64)
79	Kent Hills School	Conventional	Grand Rapids	City: Midsize	97.13	89.57	(7.56)
80	Central Elementary School	Conventional	White Pigeon	Town: Fringe	103.72	96.19	(7.53)
81	Hill Elementary School	Conventional	Troy	City: Small	105.48	97.96	(7.52)
82	Andersonville Elementary School	Conventional	Clarkston	Suburb: Large	100.23	92.78	(7.45)
83	Prairieview School	Conventional	Lakeview	City: Small	102.60	95.17	(7.43)
84	Pontiac Academy for Excellence-Elem.	Charter	Pontiac	City: Small	95.36	87.94	(7.42)
85	Keith Elementary School	Conventional	Walled Lake	Suburb: Large	102.22	94.86	(7.36)
86	North Park Montessori Academy	Conventional	Grand Rapids	City: Midsize	104.89	97.54	(7.35)
87	Eaton Academy	Charter	Detroit	Suburb: Large	93.11	85.79	(7.33)
88	Baldwin Elementary School	Conventional	Rochester	Suburb: Large	106.38	99.17	(7.22)
89	Schulze Elementary-Middle School	Conventional	Detroit	City: Large	92.17	85.00	(7.17)
90	McGregor Elementary School	Conventional	Rochester	Suburb: Large	105.70	98.57	(7.13)
91	John R Rodger Elementary School	Conventional	Bellaire	Rural: Remote	100.05	92.95	(7.10)
92	A.C. Edgerton Elementary School	Conventional	Clio	Suburb: Large	105.25	98.16	(7.08)
93	Gardner Elementary School	Conventional	Detroit	City: Large	93.93	86.89	(7.04)
94	Priest Elementary-Middle School	Conventional	Detroit	City: Large	92.80	85.79	(7.01)
95	Sayre Elementary School	Conventional	South Lyon	Suburb: Midsize	101.28	94.29	(6.99)
96	Sister Lakes Elementary School	Conventional	Dowagiac Union	Town: Fringe	112.01	105.07	(6.94)
97	North School	Conventional	Lansing	City: Midsize	93.60	86.70	(6.89)
98	Roseville Middle School	Conventional	Roseville	Suburb: Large	96.46	89.57	(6.89)
99	Sharon J. Hardy Elementary School	Conventional	South Lyon	Suburb: Midsize	105.11	98.30	(6.80)
100	North Hill Elementary School	Conventional	Rochester	Suburb: Large	109.68	102.89	(6.79)

100 Largest Declines Among Public Elementary and Middle Schools

Long-Term Performance

This analysis measures sustained performance over a longer period of time. The cohort was made up of all 2,203 schools featured in the new report card with consistent building codes that produced at least seven unique yearly CAP Scores between 2009 and 2019. In order to determine the long-term CAP Score for each of the 2,112 eligible schools, all available yearly CAP Scores were averaged together to generate a comprehensive score for the 11-year period.

Sustained High Performance: Top 100 Public Elementary and Middle Schools

Iris Becker Elementary School in Dearborn Public Schools recorded the highest long-term performance score. More than half of the conventional schools in Dearborn joined Iris Becker on the top 100 list. In all, 71 of the 100 schools with the highest levels of long-term performance also finished among the top 100 overall on this current report card.

Interestingly, two schools ranked in the top 100 for long-term performance, but also registered some of the biggest declines: DPSCD's Davison Elementary-Middle School and North Godwin Elementary in Kent County's Godwin Heights Public Schools. Both the other eligible Godwin Heights schools also rated among the top 100 for long-term performance, with one of them also among the 100 most improved.

More than half of those recording the top 100 scores for long-term performance are schools located in cities. A total of 19 charter schools graced the top 100, with eight of the nine selective-admission schools in the sample also appearing on the list. Schools marked in bold also appear in the Top 100 list in this report card.

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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	133.50	100.00%	A
2	**Hamtramck Academy**	Charter	Hamtramck	Suburb: Large	131.52	99.95%	A
3	**Crestwood Accelerated Program**	Selective	Crestwood	Suburb: Large	129.74	99.91%	A
4	**Lowrey Middle School**	Conventional	Dearborn	City: Small	128.22	99.86%	A
5	**Maples Elementary School**	Conventional	Dearborn	City: Small	124.76	99.81%	A
6	**Lowrey Elementary School**	Conventional	Dearborn	City: Small	124.71	99.76%	A
7	**Webster Elementary School**	Conventional	Livonia	City: Small	123.68	99.72%	A
8	**Center for Economicology**	Selective	Grand Rapids	City: Midsize	123.10	99.67%	A
9	**Martin Luther King, Jr. Ed. Cen. Aca.**	Charter	Detroit	City: Large	122.13	99.62%	A
10	**Saginaw Arts and Sciences Academy**	Selective	Saginaw	City: Small	121.32	99.57%	A
11	**Handley School**	Selective	Saginaw	City: Small	120.50	99.53%	A
12	**Brown Elementary School**	Conventional	Byron Center	Rural: Fringe	119.77	99.48%	A
13	**City Middle/High School**	Selective	Grand Rapids	City: Midsize	119.68	99.43%	A
14	**Glenwood Elementary**	Conventional	Kentwood	Suburb: Large	119.27	99.38%	A
15	**Blandford Nature Center**	Selective	Grand Rapids	City: Midsize	119.15	99.34%	A
16	North Godwin Elementary School	Conventional	Godwin Heights	City: Small	118.42	99.29%	A
17	**Geer Park Elementary**	Conventional	Dearborn	City: Small	118.33	99.24%	A
18	**Star International Academy**	Charter	Dearborn Heights	Suburb: Large	118.30	99.19%	A
19	**Angell School**	Conventional	Ann Arbor	City: Midsize	117.10	99.15%	A
20	Davison Elementary-Middle School	Conventional	Detroit	City: Large	117.03	99.10%	A
21	**Rankin Elementary School**	Conventional	Carman-Ainsworth	Suburb: Large	116.97	99.05%	A
22	**Bridge Academy West**	Charter	Detroit	Suburb: Large	116.72	99.01%	A
23	**West Godwin Elementary School**	Conventional	Godwin Heights	City: Small	116.69	98.96%	A
24	**John Ball Park Zoo School**	Selective	Grand Rapids	City: Midsize	116.58	98.91%	A
25	**Woodworth Middle School**	Conventional	Dearborn	City: Small	116.50	98.86%	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
26	**Bridge Academy-Elementary**	Charter	Hamtramck	Suburb: Large	116.35	98.82%	A
27	**Southwood Elementary**	Conventional	Kentwood	Suburb: Large	116.29	98.77%	A
28	**Rose City School**	Conventional	West Branch-Rose	Rural: Remote	115.74	98.72%	A
29	**Miller Elementary School**	Conventional	Dearborn	City: Small	115.61	98.67%	A
30	**Oakman Elementary School**	Conventional	Dearborn	City: Small	115.55	98.63%	A
31	**Reo School**	Conventional	Lansing	City: Midsize	115.44	98.58%	A
32	**William Ford Elementary School**	Conventional	Dearborn	City: Small	115.15	98.53%	A
33	Martin Luther King Elem. School	Conventional	Ann Arbor	City: Midsize	115.09	98.48%	A
34	**Lake Hills Elementary School**	Conventional	Grand Haven	Suburb: Midsize	114.74	98.44%	A
35	**Detroit Merit Charter Academy**	Charter	Detroit	City: Large	114.66	98.39%	A
36	**Clague Middle School**	Conventional	Ann Arbor	City: Midsize	114.55	98.34%	A
37	**Stocking Elementary**	Conventional	Grand Rapids	City: Midsize	114.12	98.29%	A
38	**Hanley International Academy**	Charter	Hamtramck	Suburb: Large	113.92	98.25%	A
39	**Detroit Edison PSA**	Charter	Detroit	City: Large	113.70	98.20%	A
40	**Hemmeter Elementary School**	Selective	Saginaw Twp.	Suburb: Midsize	113.69	98.15%	A
41	**Franklin Elementary School**	Conventional	Cadillac	Town: Remote	113.66	98.11%	A
42	**Highview Elementary School**	Conventional	Crestwood	Suburb: Large	113.66	98.06%	A
43	**Dickinson East Elementary School**	Conventional	Hamtramck	Suburb: Large	113.57	98.01%	A
44	**Riverside Academy**	Charter	Dearborn	City: Small	113.51	97.96%	A
45	**Unis Middle School**	Conventional	Dearborn	City: Small	113.47	97.92%	A
46	**Covert Middle School**	Conventional	Covert	Rural: Distant	113.46	97.87%	A
47	Jamestown Elementary School	Conventional	Hudsonville	Suburb: Large	113.46	97.82%	A
48	**Lakeshore Elementary School**	Conventional	West Ottawa	Suburb: Small	113.42	97.77%	A
49	**Central Academy**	Charter	Ann Arbor	City: Midsize	113.33	97.73%	A
50	**Frankfort Elementary School**	Conventional	Frankfort-Elberta	Rural: Remote	113.19	97.68%	A
51	**Grandville Central Elementary School**	Conventional	Grandville	Suburb: Large	113.12	97.63%	A
52	**Salina Elementary P-3**	Conventional	Dearborn	City: Small	113.11	97.58%	A
53	**Wright, Charles School**	Conventional	Detroit	City: Large	113.08	97.54%	A
54	**Discovery Elementary**	Conventional	Kentwood	Suburb: Large	113.02	97.49%	A
55	**The Dearborn Academy**	Charter	Dearborn	City: Small	112.96	97.44%	A
56	**Kenwood Elementary School**	Conventional	Cadillac	Town: Remote	112.92	97.39%	A
57	**Weidman Elementary School**	Conventional	Chippewa Hills	Rural: Remote	112.87	97.35%	A
58	**Boulan Park Middle School**	Conventional	Troy	City: Small	112.72	97.30%	A
59	Onaway Elementary School	Conventional	Onaway	Rural: Remote	112.65	97.25%	A
60	**Cesar Chavez Academy Intermediate**	Charter	Detroit	City: Large	112.63	97.21%	A
61	Bemis Elementary School	Conventional	Troy	City: Small	112.48	97.16%	A
62	**Covert Elementary School**	Conventional	Covert	Rural: Distant	112.37	97.11%	A
63	Washtenaw International Middle Aca.	Conventional	Ypsilanti	Suburb: Large	112.24	97.06%	A
64	Townline Elementary	Conventional	Kentwood	Suburb: Large	112.10	97.02%	A
65	Berrien Springs Middle School	Conventional	Berrien Springs	Town: Fringe	112.10	96.97%	A
66	**Hope of Detroit Academy**	Charter	Detroit	City: Large	111.91	96.92%	A
67	Grayling Middle School	Conventional	Crawford AuSable	Town: Remote	111.85	96.87%	A
68	Brookwood Elementary	Conventional	Kentwood	Suburb: Large	111.77	96.83%	A
69	**Andrews Elementary School**	Conventional	Three Rivers	Town: Fringe	111.71	96.78%	A
70	**Eagle Crest Charter Academy**	Charter	Holland	Suburb: Small	111.62	96.73%	A
71	**Fairview School**	Conventional	Fairview	Rural: Remote	111.60	96.68%	A
72	Kinloch Elementary School	Conventional	Crestwood	Suburb: Large	111.44	96.64%	A
73	Harms Elementary School	Conventional	Detroit	City: Large	111.41	96.59%	A
74	**Stout Middle School**	Conventional	Dearborn	City: Small	111.21	96.54%	A
75	**Oakland International Aca.-Middle**	Charter	Detroit	City: Large	111.20	96.49%	A
76	Three Oaks Public School Academy	Charter	Muskegon	City: Small	111.18	96.45%	A
77	Tappan Middle School	Conventional	Ann Arbor	City: Midsize	111.15	96.40%	A
78	Madison Middle School	Conventional	Madison (Lenawee)	Town: Distant	111.11	96.35%	A
79	**Henry Ford Elementary School**	Conventional	Dearborn	City: Small	111.11	96.31%	A
80	Pine Creek Elementary School	Conventional	West Ottawa	Suburb: Small	111.02	96.26%	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
81	Cesar Chavez Middle School	Charter	Detroit	City: Large	110.99	96.21%	A
82	Salina Intermediate 4-8	Conventional	Dearborn	City: Small	110.84	96.16%	A
83	**Marion Elementary School**	Conventional	Marion	Rural: Remote	110.79	96.12%	A
84	McDonald Elementary School	Conventional	Dearborn	City: Small	110.79	96.07%	A
85	John Allen School	Conventional	Ann Arbor	City: Midsize	110.76	96.02%	A
86	Burns Park Elementary School	Conventional	Ann Arbor	City: Midsize	110.74	95.97%	A
87	**Clara B. Bolen Elementary School**	Conventional	Tawas	Rural: Fringe	110.70	95.93%	A
88	**Baldwin Elementary School**	Conventional	Baldwin	Rural: Remote	110.65	95.88%	A
89	**C.K. Schickler Elementary School**	Conventional	Lapeer	Town: Fringe	110.56	95.83%	A
90	**Glencairn School**	Conventional	East Lansing	City: Small	110.55	95.78%	A
91	STEM Academy	Conventional	Comstock	Suburb: Midsize	110.55	95.74%	A
92	Pullman Elementary School	Conventional	Bloomingdale	Rural: Distant	110.55	95.69%	A
93	Houghton Lake Middle School	Conventional	Houghton Lake	Rural: Fringe	110.46	95.64%	A
94	**Griffin Elementary School**	Conventional	Grand Haven	Suburb: Midsize	110.46	95.59%	A
95	Slauson Middle School	Conventional	Ann Arbor	City: Midsize	110.42	95.55%	A
96	Chippewa Middle School	Conventional	Okemos	Suburb: Large	110.40	95.50%	A
97	**Northridge Academy**	Charter	Flint	City: Midsize	110.38	95.45%	A
98	Whittemore-Prescott Area Elementary	Conventional	Whittemore-Prescott	Rural: Remote	110.37	95.41%	A
99	Godwin Heights Middle School	Conventional	Godwin Heights	City: Small	110.29	95.36%	A
100	**South Arbor Charter Academy**	Charter	Ypsilanti	Rural: Fringe	110.28	95.31%	A

Sustained Low Performance: Bottom 100 Public Elementary and Middle Schools

Schools operated by the Detroit Public Schools Community District still outnumber all others on the list of sustained low CAP Score performance, registering 41 of its 71 eligible schools among the 100 lowest. Other districts with a majority of their schools on this list include Pontiac (four of six) and East Detroit (two of three). Charter schools were again overrepresented on this list, with 23 landing in the bottom 100 in long-term performance. At the very bottom of the list is the Macomb Montessori Academy, a charter school in Warren.

Similar to the Top 100 list, 60 of the Bottom 100 in long-term performance recur from the lowest 100 on the current CAP Report Card. These schools appear in bold. Two-thirds of this group also are experiencing declining CAP Scores. Yet there are a few noteworthy signs of improvement. Four of the lowest long-term performers rank among the most 50 improved: two Detroit charter schools, the Flat River Academy Middle-High School in Greenville and DPSCD's Nolan Elementary and Middle School.

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	**Macomb Montessori Academy**	Charter	Warren	City: Midsize	78.95	0.00%	F
2	**Henderson Academy**	Conventional	Detroit	City: Large	79.09	0.05%	F
3	**STEAM Academy at MLK**	Conventional	Benton Harbor	City: Small	79.50	0.09%	F
4	**Marquette Elementary-Middle School**	Conventional	Detroit	City: Large	79.92	0.14%	F
5	**Burns Elementary-Middle School**	Conventional	Detroit	City: Large	80.10	0.19%	F
6	**West Michigan Virtual-Battle Creek**	Conventional	Berrien Springs	Town: Fringe	80.43	0.24%	F
7	**Law Elementary School**	Conventional	Detroit	City: Large	81.06	0.28%	F
8	**J.W. Sexton High School**	Conventional	Lansing	City: Midsize	81.71	0.33%	F
9	**Mackenzie Elementary-Middle School**	Conventional	Detroit	City: Large	81.81	0.38%	F
10	**Mason Elementary School**	Conventional	Detroit	City: Large	82.05	0.43%	F
11	**Mary McLeod Bethune Elem.-Middle**	Conventional	Detroit	City: Large	82.47	0.47%	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
12	**Douglass Academy for Young Men**	Conventional	Detroit	City: Large	82.82	0.52%	F
13	Hamilton Academy	Charter	Detroit	City: Large	83.42	0.57%	F
14	**John R. King Aca. & Performing Arts**	Conventional	Detroit	City: Large	83.44	0.62%	F
15	**Durfee Elementary-Middle School**	Conventional	Detroit	City: Large	83.46	0.66%	F
16	**J.E. Clark Preparatory Academy**	Conventional	Detroit	City: Large	83.56	0.71%	F
17	**Noble Elementary-Middle School**	Conventional	Detroit	City: Large	83.71	0.76%	F
18	**Leelanau Montessori PSA**	Charter	Suttons Bay	Rural: Distant	83.77	0.81%	F
19	**Faxon Language Immersion Academy**	Charter	Farmington Hills	City: Small	84.03	0.85%	F
20	**Sampson Academy**	Conventional	Detroit	City: Large	84.11	0.90%	F
21	**Sarah J. Webber Media Arts Academy**	Charter	Pontiac	City: Small	84.18	0.95%	F
22	**Fisher Magnet Upper Academy**	Conventional	Detroit	City: Large	84.86	0.99%	F
23	**Blackwell Institute**	Conventional	Detroit	City: Large	85.11	1.04%	F
24	Flat River Academy-Middle/High	Charter	Greenville	Rural: Fringe	85.42	1.09%	F
25	**Battle Creek Montessori Academy**	Charter	Springfield	Suburb: Small	85.44	1.14%	F
26	**Flat River Academy-Elementary**	Charter	Greenville	Rural: Fringe	85.47	1.18%	F
27	**Northwestern Middle School**	Conventional	Battle Creek	City: Small	85.54	1.23%	F
28	**Mid Peninsula School**	Conventional	Mid Peninsula	Rural: Distant	85.95	1.28%	F
29	**Dossin Elementary-Middle School**	Conventional	Detroit	City: Large	86.27	1.33%	F
30	**Holmes STEM Academy**	Conventional	Flint	City: Midsize	86.30	1.37%	F
31	**Brewer Elementary-Middle School**	Conventional	Detroit	City: Large	86.42	1.42%	F
32	**Kelly Middle School**	Conventional	East Detroit	Suburb: Large	86.46	1.47%	F
33	Young, Coleman A. Elementary	Conventional	Detroit	City: Large	86.47	1.52%	F
34	Nolan Elementary-Middle School	Conventional	Detroit	City: Large	86.53	1.56%	F
35	**Kensington Woods Schools**	Charter	Lakeland	Suburb: Midsize	86.86	1.61%	F
36	**Earhart Elementary-Middle School**	Conventional	Detroit	City: Large	87.34	1.66%	F
37	Waterford Montessori Academy	Charter	Waterford	Suburb: Large	87.61	1.71%	F
38	Barber Elementary School	Charter	Highland Park	Suburb: Large	87.65	1.75%	F
39	**Eastern High School**	Conventional	Lansing	City: Midsize	87.82	1.80%	F
40	**Bow Elementary-Middle School**	Conventional	Detroit	City: Large	87.93	1.85%	F
41	**Multicultural Academy**	Charter	Ann Arbor	Suburb: Large	88.11	1.89%	F
42	Michigan Great Lakes Virtual Academy	Charter	Manistee	Town: Remote	88.16	1.94%	F
43	**Palmer Park Preparatory Academy**	Conventional	Detroit	City: Large	88.19	1.99%	F
44	**American International Academy**	Charter	Westland	Suburb: Large	88.41	2.04%	F
45	**Neinas Dual Language Learning Aca.**	Conventional	Detroit	City: Large	88.59	2.08%	F
46	Herrington School	Conventional	Pontiac	City: Small	88.68	2.13%	F
47	Glenn W. Levey Middle School	Conventional	Southfield	City: Small	88.89	2.18%	F
48	**Mohawk Elementary School**	Conventional	Chippewa Valley	Suburb: Large	88.95	2.23%	F
49	Pontiac Middle School	Conventional	Pontiac	City: Small	89.01	2.27%	F
50	**Carver Elementary-Middle School**	Conventional	Detroit	City: Large	89.06	2.32%	F
51	**Lansing K-8 STEM Magnet Academy**	Conventional	Lansing	City: Midsize	89.08	2.37%	F
52	**Carstens Elementary-Middle School**	Conventional	Detroit	City: Large	89.09	2.42%	F
53	Owen Elementary School	Conventional	Pontiac	City: Small	89.13	2.46%	F
54	Trix Performance Academy	Charter	Detroit	City: Large	89.14	2.51%	F
55	**Attwood School**	Conventional	Lansing	City: Midsize	89.20	2.56%	F
56	A.L. Holmes Elementary-Middle School	Conventional	Detroit	City: Large	89.23	2.61%	F
57	**Bagley Elementary School**	Conventional	Detroit	City: Large	89.37	2.65%	F
58	**Schulze Elementary-Middle School**	Conventional	Detroit	City: Large	89.56	2.70%	F
59	Gros Cap School	Conventional	Moran Twp.	Rural: Distant	89.65	2.75%	F
60	Dickinson School	Conventional	Grand Rapids	City: Midsize	89.68	2.79%	F
61	Erie Elementary School	Conventional	Chippewa Valley	Suburb: Large	89.75	2.84%	F
62	George Long Elementary School	Conventional	Grass Lake	Rural: Fringe	89.78	2.89%	F
63	Academy of The Americas	Conventional	Detroit	City: Large	90.02	2.94%	F
64	Carleton Elementary School	Conventional	Detroit	City: Large	90.06	2.98%	F

Table Rank	School Name	School Type	District or Municipality	Locale	Long-Term Average	Percent Rank	Grade
	Sustained Low Performance: Bottom 100 Public Elementary and Middle Schools						
65	Munger Elementary-Middle School	Conventional	Detroit	City: Large	90.06	3.03%	F
66	**Pulaski Elementary-Middle School**	Conventional	Detroit	City: Large	90.16	3.08%	F
67	**Ann J. Kellogg School**	Conventional	Battle Creek	City: Small	90.17	3.13%	F
68	Alice M. Birney K-8 School	Conventional	Southfield	City: Small	90.18	3.17%	F
69	**Priest Elementary-Middle School**	Conventional	Detroit	City: Large	90.25	3.22%	F
70	**Westwood Middle School**	Conventional	Grand Rapids	City: Midsize	90.28	3.27%	F
71	Whitmer Human Resource Center	Conventional	Pontiac	City: Small	90.32	3.32%	F
72	**Edward "Duke" Ellington @ Beckham**	Conventional	Detroit	City: Large	90.40	3.36%	F
73	**Pleasantview Elementary School**	Conventional	East Detroit	Suburb: Large	90.42	3.41%	F
74	Oak Park Preparatory Academy	Conventional	Oak Park	Suburb: Large	90.43	3.46%	F
75	**Eaton Academy**	Charter	Detroit	Suburb: Large	90.45	3.51%	F
76	Crescent Academy Elementary	Charter	Southfield	City: Small	90.51	3.55%	F
77	**Jessie Loomis School**	Conventional	Saginaw	City: Small	90.66	3.60%	F
78	**CB Sabbath 6-8 Preparatory Academy**	Conventional	River Rouge	Suburb: Large	90.68	3.65%	F
79	Daly School	Conventional	Westwood	Suburb: Large	90.69	3.69%	F
80	Will L. Lee School	Conventional	Richmond	Town: Fringe	90.72	3.74%	F
81	**Brick Elementary School**	Conventional	Lincoln	Rural: Fringe	90.74	3.79%	F
82	Woodland School	Charter	Traverse City	Rural: Distant	90.78	3.84%	F
83	Pittsford Area Elem. School	Conventional	Pittsford	Rural: Distant	90.83	3.88%	F
84	American Montessori Aca. Upper Elem.	Charter	Redford	City: Small	90.94	3.93%	F
85	**David Hicks School**	Conventional	Wayne-Westland	Suburb: Large	91.01	3.98%	F
86	**North School**	Conventional	Lansing	City: Midsize	91.09	4.03%	F
87	**Fisher Magnet Lower Academy**	Conventional	Detroit	City: Large	91.09	4.07%	F
88	Dryden High School	Conventional	Dryden	Rural: Distant	91.14	4.12%	F
89	Robeson Academy, Malcolm X Academy	Conventional	Detroit	City: Large	91.21	4.17%	F
90	**Country Elementary School**	Conventional	Pinckney	Rural: Fringe	91.23	4.22%	F
91	Edgemont Elementary School	Conventional	Van Buren	Suburb: Large	91.24	4.26%	F
92	Creative Technologies Academy	Charter	Cedar Springs	Town: Fringe	91.30	4.31%	F
93	Potterville Elementary School	Conventional	Potterville	Rural: Fringe	91.33	4.36%	F
94	Sherwood Global Studies Academy	Conventional	Grand Rapids	City: Midsize	91.33	4.41%	F
95	Beech Elementary	Conventional	Redford	Suburb: Large	91.35	4.45%	F
96	**Gardner Elementary School**	Conventional	Detroit	City: Large	91.37	4.50%	F
97	Will Carleton Charter School Academy*	Charter	Hillsdale	Rural: Fringe	91.46	4.55%	F
98	New Bedford Academy	Charter	Lambertville	Suburb: Large	91.48	4.59%	F
99	University Yes Academy	Charter	Detroit	City: Large	91.48	4.64%	F
100	Garden City Middle School	Conventional	Garden City	Suburb: Large	91.49	4.69%	F

* 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. He has years of experience researching and writing about education policy issues in multiple states. 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 and 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 purpose of CAP Scores is to gauge the performance of schools on standardized tests, given the economic status of their respective student bodies. The scores are generated from the M-STEP and PSAT scores from 2016 through 2019.

The first step in creating the scores is standardizing all the test results by subject, grade and year. Each test is given a mean of 100 and a standard deviation of 15. This creates an adjusted performance score, which is represented by the following formula:

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

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 who qualify for a free lunch. 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.

$$CAP\ Score = 100\ X\ \frac{Adjusted\ Performance}{Predicted\ Performance}$$

As an example, Lewis Maire Elementary School's fifth grade class in 2019 scored very well on their social studies test with an adjusted score of 133.6401. They were over two standard deviations above the mean for that test. Given that approximately 10% of their students qualified for free lunch, their predicted performance on that test comes to: 123.4792 - (.106383) X (46.1592) = 118.5686. Using the CAP Score equation above, the classes' CAP Score for that test comes to about 112.71, meaning that the class exceeded expectations.

All subject scores for each grade are averaged together, and then all these average grade-level scores are again 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 2016 to 2019. 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% of schools received an A, the next 20% a B, the middle 40% a C, the next 20% a D and the bottom 10% an F. This distribution is consistent with all prior editions of the Context and Performance Report Card.

Appendix B: Assessing Other Predictive Variables

The creation of CAP Scores is a simple endeavor, and intentionally so. The goal is to use an easy-to-understand metric to indicate the economic situation of a school's student population, and then see how a school's test results look given that situation. Taking the free lunch percentage of a school's students and plotting them against the test results (adjusted performance score, see Appendix A) produces a remarkably linear relationship. Below is one example which is typical of all test types, grades and years:

Graphic 4: Linear Regression of 2019 Sixth Grade English M-STEP Scores and Free Lunch Status
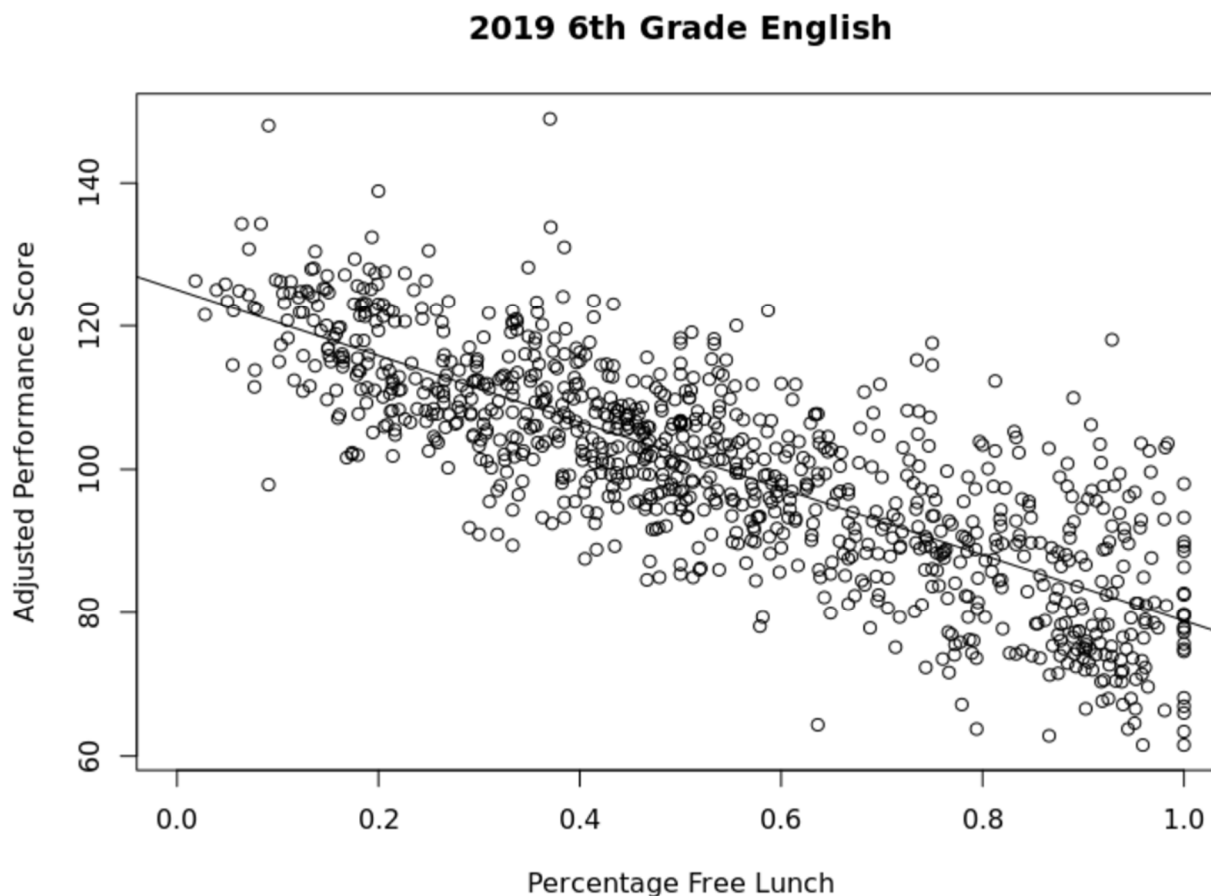
Consistently across years, grades and subjects, free lunch percentage maintains a high amount of predictive power for a school's standardized test scores. Below is a table containing the r-squared values and free lunch percentage coefficient t-values for all of the 2019 tests:

Graphic 5: Statistics from CAP Score Regression Analysis

Grade	Test	R-Squared	T-Value
3	English	0.6309	-50.99
3	Math	0.5901	-46.79
4	English	0.6372	-51.31
4	Math	0.6207	-49.51
4	Science	0.6657	-54.65
5	English	0.6631	-52.78
5	Math	0.6256	-48.65
5	Science	0.6712	-53.75
6	English	0.6342	-40.79
6	Math	0.671	-44.24
7	English	0.621	-37.58
7	Math	0.6686	-41.65
7	Science	0.684	-43.27
8	English	0.7237	-47.82
8	Math	0.707	-45.9

In each case, the free lunch percentage is highly significant and explains the majority of the variance in the test scores by itself. This consistent relationship allows us to generate a value which is very intuitive: how far above, or below, that relationship line does a school perform? That is the essential value of a CAP Score.

Including Additional Variables

Still, an important question lingers: Why not add other variables? It is a valid consideration, and it can be useful to periodically test other variables commonly thought or demonstrated in other contexts to be associated with standardized test score performance. The results of these tests are described in this section.

The number of potentially useful variables is large, but the pool is narrowed to publicly available student data, which mostly covers demographics and some assorted metrics related to behavioral characteristics.[*] However, many of these variables are not available at a level as granular as the free lunch data. For many interesting variables, all that exists is information at the school level rather than the grade level.

To get around this problem for the purpose of the current testing, an aggregated score was created using all the standardized test scores from a given school. The adjusted performance scores for all tests and grades for a given school are averaged together with equal weighting, and this average test score is then used as the dependent variable for testing. All eight of the eligible variables are then put through an AIC Stepwise selection process, the result of which is displayed in the table below:

Graphic 6: Statistics from Regression Analysis of Other Variables

Variable	Estimate	T-Value
Intercept	127.4457	58.399
Total Mobility Rate	-20.6017	-5.382
Chronic Absence Rate	-19.9256	-13.615
Retention Rate	19.8184	3.708
Male Percentage	-7.0352	-1.660
White Percentage	1.3111	2.039
Spec. Education Percentage	-19.8638	-6.267
Free Lunch Percentage	-34.0045	-37.536
English Language Learner Percentage	5.6279	5.009

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[*]   All publicly available data was collected from the Center for Educational Performance and Information, http://www.mischooldata.org.

The model yielding the regression results in the table above has an r-squared value of 0.7824. When the free lunch percentage is removed, the r-squared drops to 0.6248. Yet when the regression is run just against the free lunch rate, the r-squared is 0.7253. This suggests that the free lunch rate for schools explains the greater part of the variance of test scores and retains this greater part even when other variables are added into the equation. So, while it would be possible to marginally improve the predictive power of the model with additional variables, it is the opinion of the authors that the simplicity of the CAP Score calculation is not worth sacrificing for negligible increases in model accuracy.

Appendix C: Incorporating PSAT Tests into CAP Scores

In 2019, eighth grade students began to be tested using the PSAT, rather than the M-STEP, to measure achievement in mathematics and English language arts. This calls into question whether we can use the two types of tests in conjunction with each other to create an aggregated CAP Score. It is possible that the tests are different enough that aggregating them would bias CAP Scores in some way.

Generally, a school's standardized test results from the prior year are a good predictor of the scores for the current year. Schools do change their place in the rankings, but on the whole they remain fairly consistent. The assumption made here is that if the PSAT scores are well predicted by the prior year's M-STEP scores, they are unlikely to create a bias. In other words, if prior year M-STEP scores can predict PSAT scores as well as prior year M-STEP scores can predict other M-STEP scores on average, we can feel confident that the score results can be aggregated together.

The table below gives the year-over-year regression results for 2016 through 2019. Each row shows how well a prior year M-STEP test score could predict the following year's subject test score listed in the table. The last two rows show the results of the new PSAT tests.

Graphic 7: Statistics from Regression of PSAT and M-STEP Test Results

Subject	Years	Constant (t)	Coefficient (t)	R-squared
ELA	2016-2017	14.5655 (8.71)	0.8548 (51.81)	0.7689
Math	2016-2017	10.7491 (7.152)	0.8934 (60.359)	0.8187
Science	2016-2017	17.66404 (9.141)	0.82548 (43.330)	0.6996
ELA	2017-2018	14.66285 (7.915)	0.85628 (46.830)	0.731
Math	2017-2018	9.39060 (6.476)	0.90944 (63.686)	0.834
ELA-PSAT	2018-2019	14.32481 (7.335)	0.85684 (44.563)	0.711
Math-PSAT	2018-2019	10.6500 (6.538)	0.8942 (55.895)	0.7947

As can be seen in the table, each year's test scores are closely associated with the prior year's test scores. In both cases of the 2018 M-STEP scores predicting the PSAT, the results of the regressions were within the bounds of the results among M-STEP tests from prior years. This gives us confidence that the PSAT tests can be included in the CAP Score calculation.

Appendix D: 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.

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

[†]   Ibid.

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